

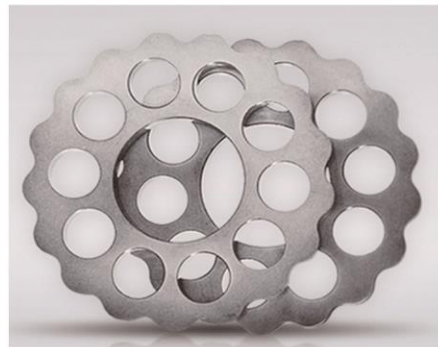


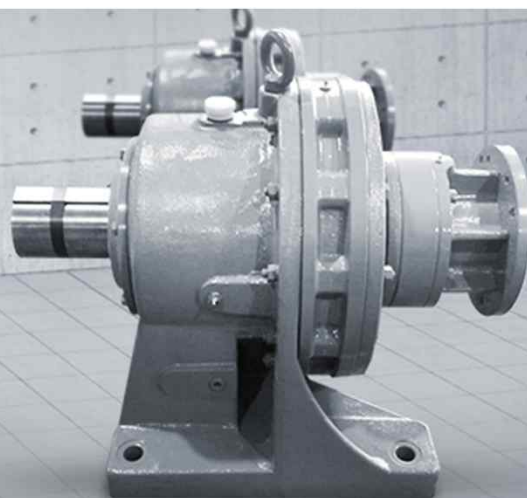
Table of contents

1	About Us	p3
2	About M-Drive	p5~7
	Features and Benefits	
	Operation Principle	
3	Selection Process	p9~15
	Selection Guidelines	
	Considerations	
	Model Number	
	Examples of Model Number	
4	Selection Tables	p17~29
	Technical Formula	
	Selection Tables: Single Reduction Type	
	Selection Tables: Double Reduction Type	
5	Dimensions	p31~157
	Dimensional Differences Due to Lubrication	
	Drawing Pages	
	Case Mounting Type	
	Base Mounting Type	
	Flange Mounting Type	
6	User Manual	p159~168
7	Technical Information	p170~184
	Capacity (Input/Output)	
	Overhung Loads	
	Motor and Brake Connection Information	



ISO 9001 Registered Firm
Certificate No. AC01176

We make cycloidal gear reducers.



1

About Us

2

About M-Drive

3

Selection Process

4

Selection Tables

5

Dimensions

6

User Manual

7

Technical Information

Korea's leading manufacturer of cycloidal gear reducers aspires to become "the best option" for global customers

Established in 1975, HDM (Hapdong Manufacturing Co.) is Korea's leading manufacturer of cycloidal gear reducers.

After initially producing P.I.V. gear boxes, HDM began developing cycloidal gear reducers in the late 1980s when most Korean customers had no choice but to use overpriced imported products.

After HDM successfully developed cycloidal gear reducers, Korean customers had a new option. Since then, HDM has been leading the Korean market by developing technologies to improve quality and creating mass-production lines to ensure reasonable prices.

Based on HDM craftsmanship, which never compromises on quality, HDM has gained the trust of many customers. Consequently, over 1,000 domestic and overseas customers have chosen HDM reducers in the past 10 years.

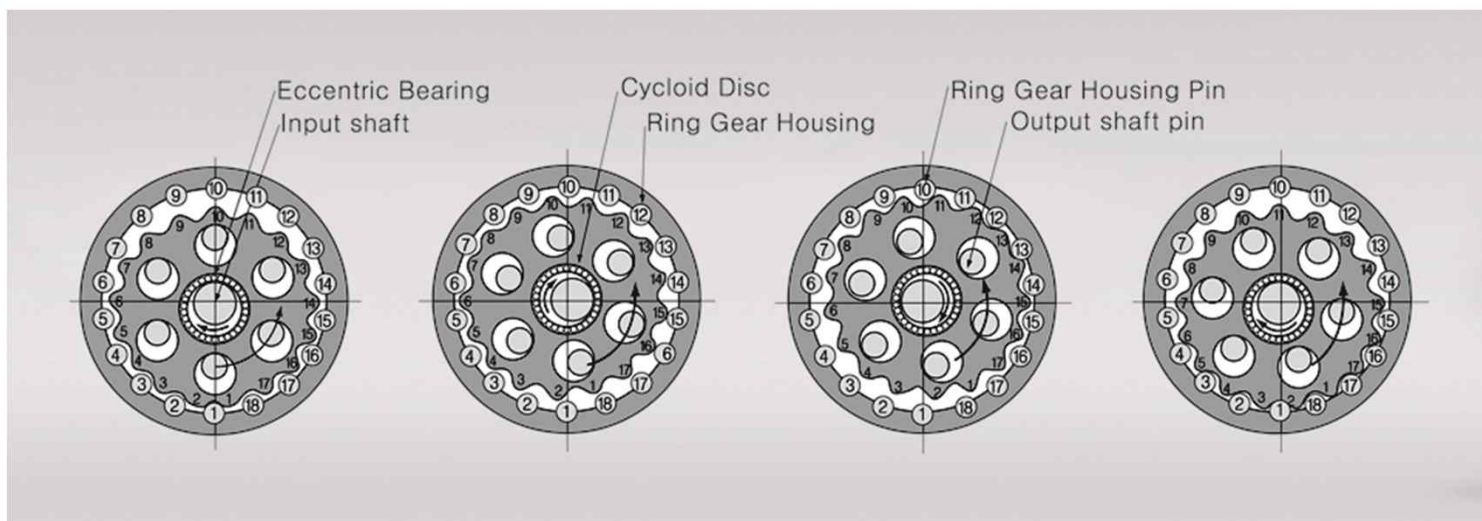
By offering high quality products at reasonable prices, HDM aspires to become "the best option" for customers.

CEO
HDM Drive
Chulyong Lee



History

1975	• Established as "Hapdong Manufacturing Co." • Initially developed and produced P.I.V. gear boxes
1979	• Appointed as specialized machinery plant by the Ministry of Commerce and Industry
1985	• Certified as prospective SME by the Ministry of Science and Technology • Commenced to develop cycloid gear reducers
1988	• Moved to Banwoul Industrial Complex and commenced mass production of cycloid gear reducers
1990	• Acquired the design approval certificate "kr" of the Korean Register of Shipping
1991	• Recognized as a manufacturer of domestic cycloid gear reducers by POSCO
1992	• Acquired bidding qualification from Public Procurement Service
1998	• Acquired ISO 9001 quality management system certificate
2000	• Expanded and moved to Shiwha Industrial Complex (current plant)
2006	• Changed company name to "Hapdong Corporation"
2009	• Built automation facility (total investment 1 billion Won)
2012	• Developed "New Hapdong" strategy
2013	• Upgraded plant by changing the layout and modernizing the facilities • Changed registered company name to "HDM Drive"



1

About Us

2

About M-Drive

2-1

Features and Benefits

2-2

Operation Principle

3

Selection Process

4

Selection Tables

5

Dimensions

6

User Manual

7

Technical Information

Cycloidal gear reducer outperforms the common involute gear reducer.

Improved power transmission efficiency

A cycloidal gear reducer creates less friction losses as the reducing core and input/output modules are concentrically designed and the gear tooth make rolling contacts. We estimate over 90% power transmission efficiency for the single-reduction model.

Wide reduction ratio coverage

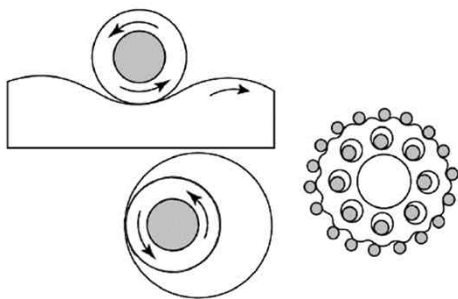
Unlike a common involute gear reducer, whose reduction ratio covers only $1/2 \sim 1/6$ for a single reduction stage, a cycloidal gear reducer can cover a reduction ratio of $1/6 \sim 1/87$ in a single stage. By including an additional reduction stage, an extremely wide reduction ratio can be covered.

Less noise and vibration

Since the cycloidal gear tooth is curved and makes continuous contacts with rollers, a cycloidal gear reducer makes smoother movements with less noise and vibration than a common involute gear reducer.

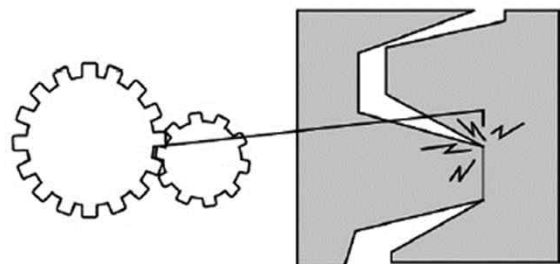
<Cycloidal Gear Reducer>

Smooth rolling contact enables high efficiency and durability



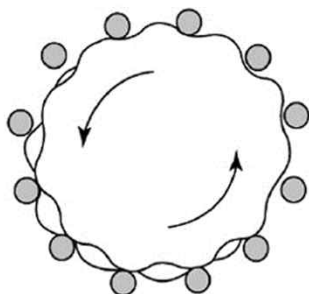
<Common Involute Gear Reducer>

Friction occurs when involute teeth make contact



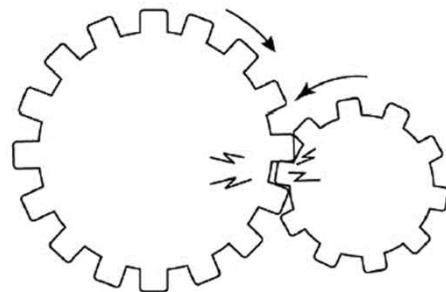
<Cycloidal Gear Reducer>

Load distributed to multiple contact points



<Common Involute Gear Reducer>

All load concentrated into single contact point



2-1 Features and Benefits

High durability

With its unique mechanical structure of making smooth rolling contacts and distributing loads to multiple contact points, a cycloidal gear reducer can bear higher loads and shocks than a common involute gear reducer. Further, since HDM Drive uses heat-treated high-carbon chromium alloy steel and high-precision machining for core reduction parts, HDM's M-Drive has very high durability.

Compact and lightweight

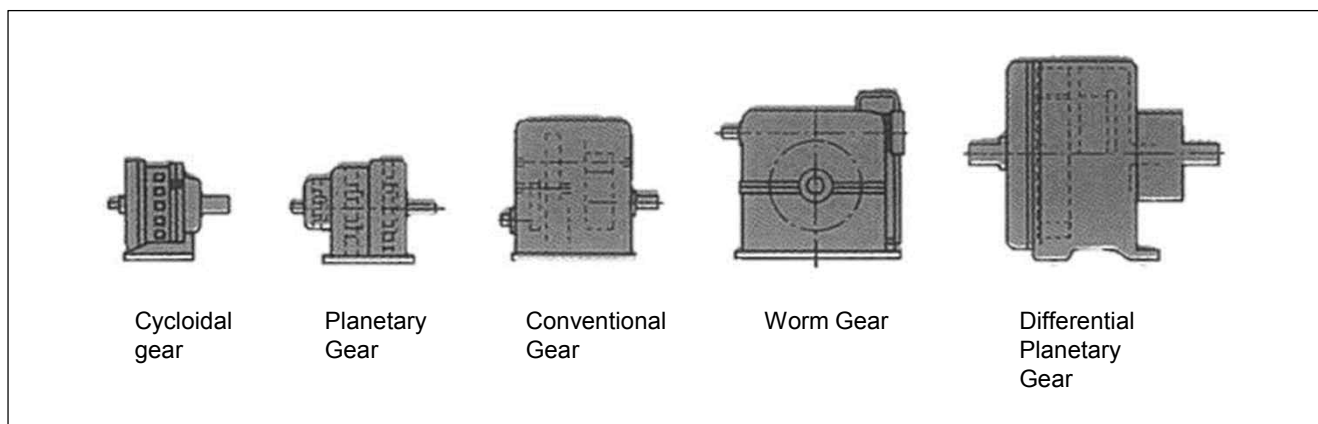
Because a cycloidal gear reducer can bear higher loads and shock, it can be designed to be more compact and lightweight than a common involute gear reducer. Moreover, wider reduction ratio coverage can also be attributed to compact size and light weight.

Convenient maintenance work

All parts are modularized and standardized to facilitate convenient maintenance work.

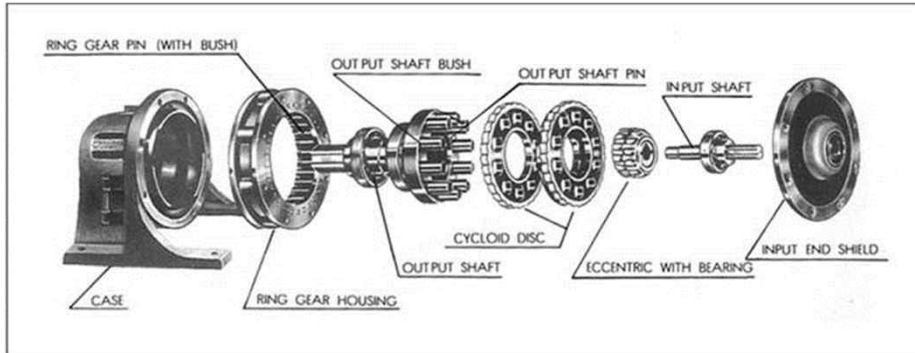
***Dimensional comparison between a cycloidal gear reducer and other types of reducers**

Ex) 20HP motor; reduction ratio 59:1

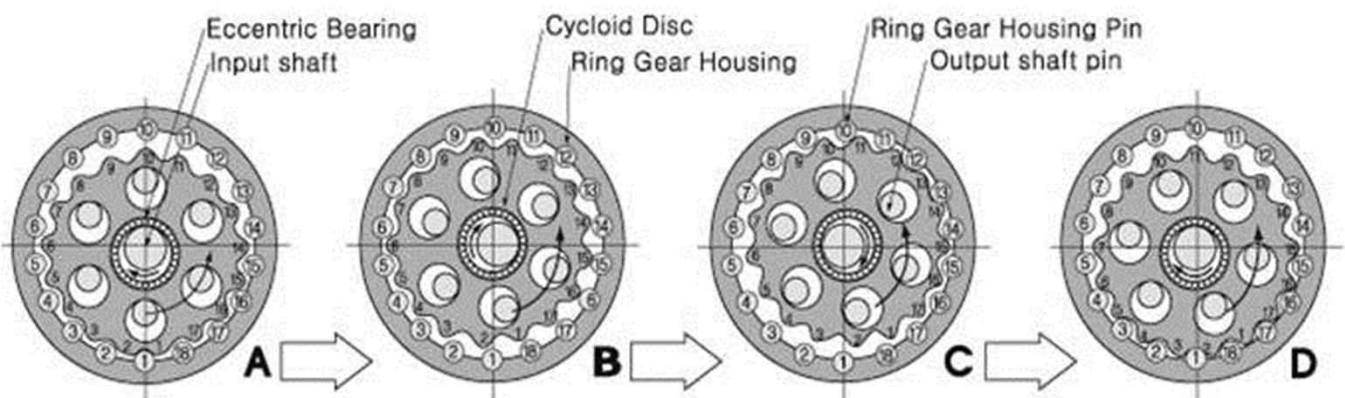


Structure of a cycloidal gear reducer

- The input module comprises the input shaft or motor shaft, eccentric bearing, and motor flange or covering shield.
- The reducing module comprises cycloidal discs, ring gear housing, and pins and bushings.
- The output module comprises the case, base, or flange and output shaft.



Operation process



- **A:** As the input shaft (or motor shaft) rotates by one turn, the eccentric bearing also rotates by one turn in the same direction as the motor shaft.
- **B:** While the cycloidal disc rotates on its own axis with its eccentric bearings, the cycloidal disc rotates in a planetary movement by engaging with pins on the ring gear housing.
- **C:** The cycloidal disc rotation is caused by the difference between the number of pins on the ring gear housing and the number of teeth on the cycloidal disc. The number of pins on the ring gear housing exceeds the number of teeth on the cycloidal disc by one. The cycloidal disc, which rotates on its own axis, rotates by one tooth pitch in one revolution of the input shaft.
- **D:** The reduced revolution of the cycloidal disc is transmitted to the slow speed shaft through the pin/roller of the slow speed shaft. Consequently, by this gear mechanism, the reduction ratio equals the number of teeth of the cycloidal disc to one.

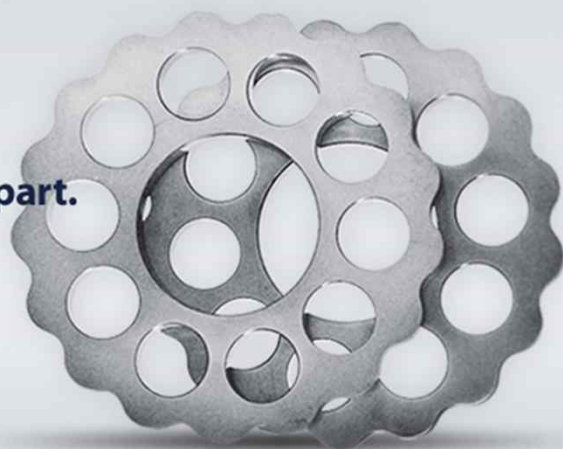
Formula

$$\text{Reduction ratio (i)} = \frac{N-n}{n}$$

$$\text{Example} = \frac{18-17}{17} = \frac{1}{17}$$

N = Number of pins on the ring gear housing
n = Number of teeth of the cycloidal disc

We drive quality at the maximum level
by using **precision machining for every part.**



1

About Us

2

About M-Drive

3

Selection Process

3-1

Selection Guidelines

3-2

Considerations

3-3

Model Number

3-4

Examples of Model Number

4

Selection Tables

5

Dimensions

6

User Manual

7

Technical Information

Step 1. Define requirements for your applications

- Define application (e.g., conveyor line, mixer, etc.)
- Define operation requirements (e.g., operation hour per day, work loads, etc.)
- Define environmental conditions (e.g., temperature, pressure, shock, etc.)
- Select motor horsepower (HP or KW) and input speed (RPM)
- Select desired speed reduction ratio and output speed (RPM)

Step 2. Select a frame size

- Set load factor, considering application and operation requirements Load factor table (p.10)
- Select frame size, considering input RPM, motor HP, load factor, and reduction ratio Frame selection table (p.18~29)

Step 3. Select mounting type and position, input connection, and lubrication

- Select mounting type and position (output direction) Mounting options (p.11)
- Select input connection type (line power, direct connection, and adaptor type) Motor connecting options (p.11)
- Select lubrication method (oil bath, grease, and oil pump type) Lubrication options (p.11)

Step 4. Verify dimensions

- Check dimensions determined by frame size and mounting type
- Check if reducer can be appropriately installed in the required space

Step 5. Select options

- Clarify the necessary aspects, such as motor brake, torque limiter, special motor requirements, and special material requirements.
- Select motor purchasing method (purchasing the reducer and motor together vs. purchasing the motor separately and having them sent to us)

Step 6. Select model number

- Select HDM model number Model number table (p.12~13)

3-2 Considerations

Load factor table

Operation hour	10 hours per day			24 hours per day		
	Normal operation (U)	Moderate shock (M)	Heavy shock (H)	Normal operation (U)	Moderate shock (M)	Heavy shock (H)
Load factor	1	1.2	1.5	1.2	1.35	1.6

- 1) A smaller model can be applied for intermittent operations.
- 2) A special modification may be required for operation conditions with frequent stops and starts or extra heavy shocks.

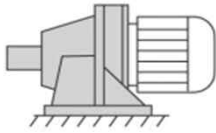
<Reference load factor for various applications>

Conveyors & Cranes		Classifier Machines		Paper Mills		Oil Industry	
1. Elevators		1. Classifiers	M	1. Aerator	*	1. Chillers	M
-bucket (uniform load)	U	2. Screens		2. Agitators	M	2. Paraffin filter press	M
-bucket (heavy load)	M	-rotary (stone or gravel)	H	3. Barker (hydraulic)	M	3. Rotary kilns	M
-escalators	U	-air washing	U	4. Baker (mechanical)	M	Textile Industry	
-freight	M	-traveling water intake	U	5. Baker drum	H		
-passenger	*	Mills		6. Beater & pulper	M	1. Batcher, calendars, cards	M
-man lifts	*	1. Crusher		7. Bleacher	U	2. Dry cans, dryers, dyeing	M
2. Car dumpers	H	-ore, stone	H	8. Conveyors	U	3. Mangles, nappers, pads	M
3. Car Pullers	M	2. Mill (Rotary type)		9. Lumber conveyors	H	4. Slashers, soapers, winders	M
4. Cranes, Hoists	*	-ball, rod, plain	H	10. Cutters-platers	H	5. Looms, spinners	M
-heavy duty	M	-kilns	M	11. Cylinders	M	6. Washer, pads, tenter frames	M
-medium duty	H	-tumbling barrels	H	12. Pulp machine reel	M	7. Knitting machines	M
-skip hoist	M	3. Sand Muller	M	13. Stock chests	M	Shipping Industry	
-bridge & trolley travel	*	Machine Tools		14. Washers & thickeners	M	1. Barge Haul	H
5. Conveyors: Uniform		1. Tapping machine	H	15. Couch	M	2. Windlass	*
-apron, assembly	U	2. Punch press (gear driven)	H	16. Suction roll	U	3. Steering Gear	*
-belt, bucket, chain	U	3. Plate planers	H	17. Presses	U	4. Capstan, Cargo Winch	*
-flight, oven, screw	U	4. Bending roll	M	18. Dryers	M	5. Mooring Winch	*
6. Conveyors: Heavy Duty		5. Other machine tool	*	19. Calendars	M	Metal Mills	
-apron, assembly	M	Dredges		20. Calendars (super)	H		
-belt, bucket, chain	M	1. Cable reel, conveyors	M	21. Winders	U	1. Mills	
-flight, oven, screw	M	2. Cutter head drives	H	Sugar Industry		-draw bench	H
-reciprocating, shaker	H	3. Jig drives	H	1. Cane knives	M	-forming machines	H
7. Stockers	U	4. Screen drives	H	2. Crushers	M	-slitters	M
8. Dry Dock Cranes	*	5. Stackers, utility winches	M	3. Mills	H	-table conveyors	*
9. Feeder		Rubber & Plastics		Clay Working Machinery		-pinch dryer & scrubber rolls	*
-disc	U	1. Extruders		1. Brick press & briquette	H	-wire drawing & flattening	H
-apron, belt, screw	H	-rods, pipe, tubing	M	2. Pug mill	M	-wire winding machine	H
-reciprocating	M	-blow molders	M	3. Clay working machinery	M	2. Bridle Rolls	H
Water Treatment		-pre plasticizers	M	Mixing Machines		3. Slab Pusher	M
1. Clarifiers	U	2. Mixing Mills	H	1. Agitators		4. Reel	M
2. Bath Clean	U	3. Rubber Calendars	M	-pure liquids	U	Compressors & Pump	
3. Chemical Feeder	U	4. Rubber Mill (two on line)	M	-liquids (variable density)	M	1. Compressors	
4. Connector	U	5. Sheeter & Refiners	M	-liquids & solids	H	-reciprocating (multicylinder)	M
5. Bar Screens	M	6. Tubers & Strainers	M	2. Mixers		-reciprocating (single cylinder)	H
6. Scum Breakers	M	7. Dryer	*	-concrete mixers, cont.	U	2. Pump	
7. Mixer	M	Brewing & Distilling		-concrete mixers, intermittent	M	-centrifugal	U
8. Thickeners	M	1. Bottling machinery	U	-concrete mixer	H	-proportioning	M
9. Vacuum Filters	M	2. Brew kettle, cont.	U	Food Industry		-reciprocating	M
10. Aerator	*	3. Mash tubs, cont.	U	1. Rice Polisher	U	-single acting, 3 or more	M
11. Dewatering Screws	M	4. Cookers, cont.	U	2. Beet Silcer	M	-double acting, 2 or more	M
12. Rotary Screens	U	5. Scale hopper, frequent starts	M	3. Dough Mixer	M	-rotary (gear, lobe, vane type)	*
Cement				4. Meat Grinders	M	Printing Process	
1. Dryer, cooler	H			5. Dryer	*		
2. Cement kiln	*					Laundry Washers	
							M
						Lumber Industry	
							*

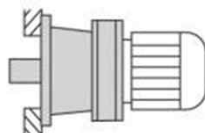
REMARK: * Refer to factory

Mounting type

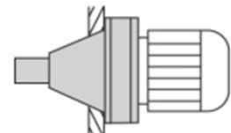
Case (foot mount)



Base

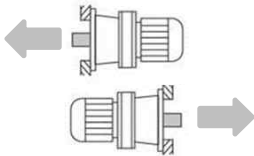


Flange

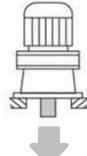


Mounting position (output direction)

Horizontal



Vertical (down)

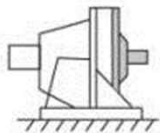


Vertical (up)



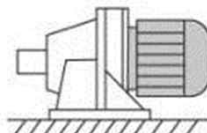
Input connection type

Line Power



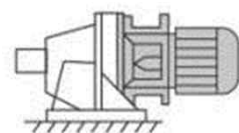
Standard type; uses coupling to connect the reducer and motor

Direct connection



Motor directly connected to reducer; this can save space, but it needs disassembling when decoupling the motor from the reducer

Adaptor



Connecting the adaptor between reducer and motor; it is easy to connect and disconnect the motor, but it consumes more space

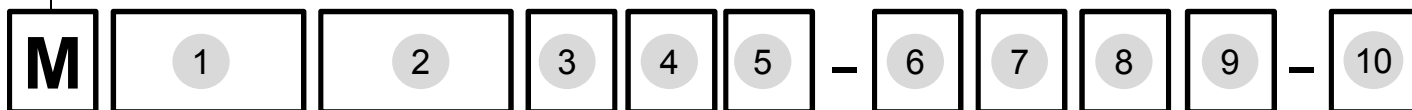
Selection table for lubrication type

Frame	102	103	104	105	106	107	108	109	110	122	111	124	112	125
Model type														
Single reduction, horizontal	Grease		Oil bath											
Single reduction, vertical			Oil pump or Oil bath											

Frame	232	242	252	262	272	282	243	253	263	273 274	284	293 294 296	2104 2106	2224 2226	2116 2117	2246 2247	2128 2258
Model type																	
Double reduction, vertical	Double reduction, horizontal											Oil bath					
	Reduction ratio: 121-493																
	Reduction ratio: 595-841																
	Reduction ratio: 957-1015											Oil pump or Oil bath					
	Reduction ratio: 1225-2523																
	Reduction ratio: 2537-3045																
	Reduction ratio: 3481-7569																

3-3 Model Numbers

HDM M-Drive



1

Input connection type
S (Line Power)
M (Direct)
J (Adaptor)
MJ (Adaptor + Motor)

2

Mounting type × output direction				
Output direction Mounting	H (Horizontal)	V (Vertical down)	W (Vertical up)	
H (Case)	H 	HV 	HW 	
V (Base)	VH 	V 	VW 	
F (Flange)	FH 	FV 	FW 	

3

Dimension option
Normal
S Special

4

Lubrication
L Oil bath
P Oil pump
G Grease

5

Motor horsepower
0.25~70HP
*Detailed features of motor should be provided

6

Frame size

Single reduction type: 102~125

Frame	Output shaft diameter	Note
102	28Φ	
103	38Φ	
104	50Φ	
105	50Φ	Similar to 104 (longer output shaft)
106	60Φ	
107	70Φ	
108	80Φ	
109	95Φ	
110	110Φ	
122	120Φ	Similar to 110 (thicker output shaft)
111	120Φ	
124	140Φ	Similar to 111 (thicker output shaft)
112	140Φ	
125	160Φ	Similar to 112 (thicker output shaft)

Double reduction type: 222~2258

		Input side (1 st stage)					
		102	103	104	105	106	107 108
Output side (2 nd stage)	102	222					
	103	232					
	104	242	243				
	105	252	253				
	106	262	263				
	107	272	273	274			
	108	282	283	284			
	109		293	294		296	
	110			2104		2106	
	122			2224		2226	
	111					2116	2117
	124					2246	2247
	112						2128
	125						2258

Triple reduction type: 3432~

7

Brake option	
☐	No
☒	Yes

8

Special motor option	
☐	Normal motor
☒	Inverter motor

9

Torque limiter option	
☐	No
☒	Yes

10

Reduction ratio

Single reduction: 6~87

Double reduction: 104~7569

Triple reduction: 1331~658503

Model coverage: Single reduction type

Ratio	6	8	11	13	15	17	21	25	29	35	43	47	51	59	71	87
Frame																
102	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓
103	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓
104	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
105	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
106	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓
107	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓
108			✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓
109			✓	✓	✓	✓	✓		✓	✓	✓		✓	✓	✓	✓
110			✓			✓	✓		✓	✓	✓		✓	✓	✓	✓
122			✓			✓	✓		✓	✓	✓		✓	✓	✓	✓
111			✓			✓	✓		✓		✓		✓			✓
124			✓			✓	✓		✓		✓		✓			✓
112			✓			✓			✓		✓		✓			✓
125			✓			✓			✓		✓		✓			✓

- ☒ Standard ratio
- ☒ Special ratio
- ☐ Ask sales

Model coverage: Double reduction type (First-stage reduction ratio × Second-stage reduction ratio)

2nd stage	6	8	11	13	15	17	21	25	29	35	43	47	51	59	71	87
1st stage																
6						102	126	150	174	210	258	282	306	354	426	522
8				104	120	136	168	200	232	280	344	376	408	472	568	696
11			121	143	165	187	231	275	319	385	473	517	561	649	781	957
13				169	195	221	273	325	377	455	559	611	663	767	923	1131
15					225	255	315	375	435	525	645	705	765	885	1065	1305
17						289	357	425	493	595	731	799	867	1003	1207	1479
21							441	525	609	735	903	987	1071	1239	1491	1827
25								625	725	875	1075	1175	1275	1475	1775	2175
29									841	1015	1247	1363	1479	1711	2059	2523
35										1225	1505	1645	1785	2065	2485	3045
43											1849	2021	2193	2537	3053	3741
47												2209	2397	2773	3337	4089
51													2601	3009	3621	4437
59														3481	4189	5133
71															5041	6177
87																7569

*First-stage reduction ratio ≤ Second-stage reduction ratio ☐ Standard ratio

3-4 Examples of Model Number

Examples

MMHL10-107-35

M	HDM M-DRIVE
M	Direct connection (motor)
H	Case mount, horizontal
L	Oil bath
10	Motor HP
107	Frame size
35	Reduction ratio

MMJFHL10-107-35

M	HDM M-DRIVE
MJ	Motor + Adaptor
FH	Flange mount, horizontal
L	Oil bath
10	Motor HP
107	Frame size
35	Reduction ratio

MSHSG-105-87

M	HDM M-DRIVE
S	Line power
H	Case mount, horizontal
S	Japanese type (dimension)
G	Grease
105	Frame size
87	Reduction ratio

MJVG-106-87

M	HDM M-DRIVE
J	Adaptor
V	Base mount, vertical down
G	Grease
106	Frame size
87	Reduction ratio

MJHL-2104-121

M	HDM M-DRIVE
J	Adaptor
H	Case mount, horizontal
L	Oil bath
2104	Frame size
121	Reduction ratio

MMJVWG10-110-59

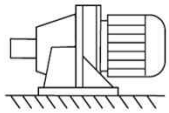
M	HDM M-DRIVE
MJ	Motor + Adaptor
VW	Base mount, vertical up
G	Grease
10	Motor HP
110	Frame size
59	Reduction ratio

MSVP-105-87

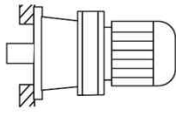
M	HDM M-DRIVE
S	Line power
V	Base mount, vertical down
P	Oil pump
105	Frame size
87	Reduction ratio

MSVG-106-8

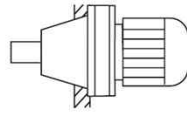
M	HDM M-DRIVE
S	Line power
V	Base mount, vertical down
G	Grease
106	Frame size
8	Reduction ratio



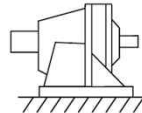
MMH



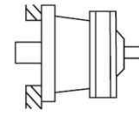
MMVH



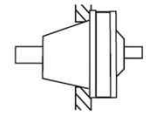
MMFH



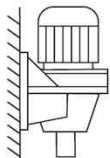
MSH



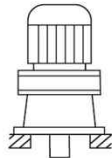
MSVH



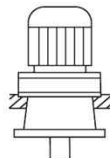
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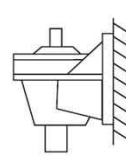
MMHV



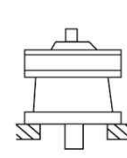
MMV



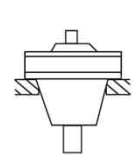
MMFV



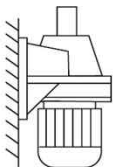
MSHV



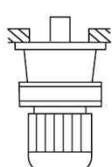
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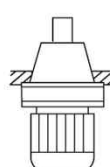
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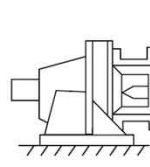
MMHW



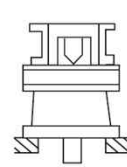
MMVW



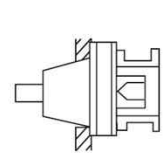
MMFW



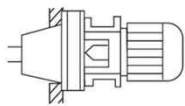
MJH



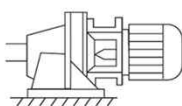
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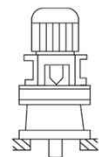
MJFH



MMJFH

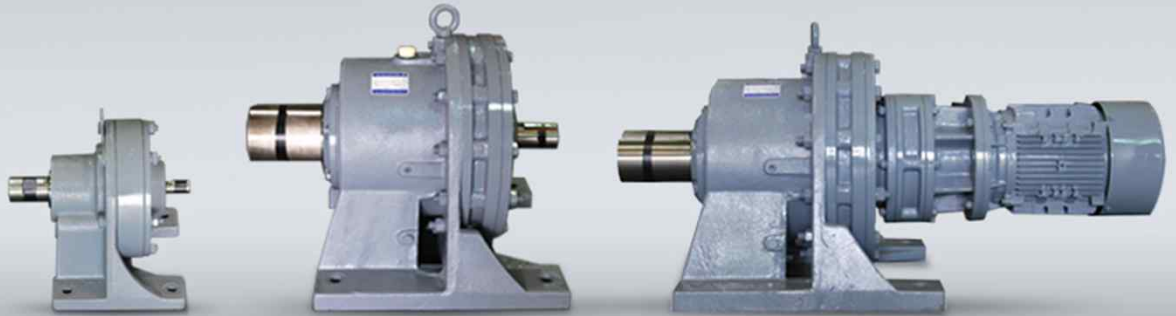


MMJH



MMJV

We cover various features and sizes.



1

About Us

2

About M-Drive

3

Selection Process

4

Selection Tables

4-1

Technical Formula

4-2

Selection Tables: Single Reduction Type

4-3

Selection Tables: Double Reduction Type

5

Dimensions

6

User Manual

7

Technical Information

Input power and torque calculation formula

$$P(kw) = \frac{2\pi \times T \times N}{102 \times 60} = \frac{T \times N}{974}$$

P : Input power (kw or HP)

$$P(HP) = \frac{2\pi \times T \times N}{75 \times 60} = \frac{T \times N}{716.2}$$

T : Torque (kgf-m)

N : Output revolution (RPM)
(= Input revolution/Reduction ratio)

$$T = \frac{974 \times P(kw)}{N} = \frac{716.2 \times P(HP)}{N}$$

Conversion to units

Power	HP	KW	Kgf-m/s	Torque	Kgf-m	Nm
1HP	1	0.746	76.07	1kgm	1	9.81
1KW	1.341	1	102.0	1Nm	0.102	1

Load factor reflecting adjusted input power (AP)

Since the above calculations of input power and torque have been made under the assumption of eight hours of operation per day, please apply the following load factors when calculating input power.

$$AP(kw) = \frac{T \times N}{974} \times \text{Load Factor}$$

AP: Adjusted input power (kw or HP)

T: Torque (kgf-m)

$$AP(HP) = \frac{T \times N}{716} \times \text{Load Factor}$$

N: Output revolution (RPM)
(= Input revolution/Reduction ratio)

Operation hour	10 hours/Day			24 hours/Day		
	Normal (U)	Moderate shock (M)	Heavy shock (H)	Normal (U)	Moderate shock (M)	Heavy shock (H)
Load factor	1	1.2	1.5	1.2	1.35	1.6

Selection of frame size

Select frame size using the following formula. Refer to [4-2 Selection tables: Single reduction type](#) and [4-3 Selection tables: Double reduction type](#). More detailed information is provided in [7-1 Capacity](#).

Input power	$\frac{AP (\text{Input power} \times \text{Load Factor})}{\text{Reducer efficiency}^*}$	$\leq$	Input power capacity by frame size
Output torque	Required torque x Load Factor	$\leq$	Output torque capacity by frame size

*Apply 90% for single reduction type and 80% for double reduction type.

4-2 Selection Tables : Single Reduction Type

Single reduction type with 4 pole motor, Reduction ratio 6 ~ 87

Ratio →		6	8	11	13	15	17	21
Output rpm	▪ 60Hz →	300	225	164	138	120	106	86
	▪ 50Hz →	250	187	136	115	100	88	71
↓ Motor Capa	↓ Load Factor							
1/4HP (0.2KW)	1.0							
	1.2							
	1.4							
	1.6							
1/2HP (0.4KW)	1.0							
	1.2							
	1.4			102			102	
	1.6			102			102	
1HP (0.75KW)	1.0			102			102	
	1.2			102			102	
	1.4			102			102	
	1.6			102			102	
2HP (1.5KW)	1.0	103	103	103	103	103	103	
	1.2	103	103	103	103	103	103	
	1.4	103	103	103	103	103	103	
	1.6	103	103	103	103	103	103	
3HP (2.2KW)	1.0	103	103	103	103	103	103	
	1.2	103	103	103	103	103	103	
	1.4	103	103	103	103	103	103	
	1.6	103	103	103	103	103	103	
5HP (3.7KW)	1.0	104	104	104	104	104	104	104
	1.2	104	104	104	104	104	104	104
	1.4	104	104	104	104	104	104	105
	1.6	104	104	104	104	104	104	105
7.5HP (5.5KW)	1.0	106		106	106	106	106	106
	1.2	106		106	106	106	106	106
	1.4	106		106	106	106	106	106
	1.6	106		106	106	106	106	106
10HP (7.5KW)	1.0	106		106	106	106	106	106
	1.2	106		106	106	106	106	106
	1.4	106		106	106	106	106	106
	1.6	106		106	106	106	106	
15HP (11KW)	1.0	107		107	107	107	107	
	1.2	107		107	107	107	107	
	1.4	107		107	107	107	107	
	1.6	107		107	107	108	108	
20HP (15KW)	1.0	107		107	107	107	107	
	1.2	107		107	107	107	107	
	1.4	107		107	107	108	108	
	1.6	107		108	108	108	108	
30HP (22KW)	1.0			109		109	109	109
	1.2			109		109	109	109
	1.4			109		109	109	109
	1.6			109		109	109	110
40HP (30KW)	1.0			110		110	110	110
	1.2			110		110	110	110
	1.4							
	1.6							
50HP (37KW)	1.0			110		110	110	110
	1.2							
	1.4							
	1.6							

29	35	43	59	71	87	Ratio	
62	51	42	31	25	21	← 60Hz ▫	Output rpm
52	43	35	25	21	17	← 50Hz ▫	
						↓ Load Factor	↓ Motor Capa
			102		102	1.0	1/4HP (0.2KW)
		102	102		102	1.2	
		102	102			1.4	
		102	102			1.6	
102	102	102	102		102	1.0	1/2HP (0.4KW)
102	102	102	102		103	1.2	
102	102	102	103			1.4	
102	102	102	103			1.6	
102	102	102	103	103	103	1.0	1HP (0.75KW)
102	103	103	103	103	103	1.2	
103	103	103	103	104	104	1.4	
103	103	103	103	104	104	1.6	
103	103	103	104	105	105	1.0	2HP (1.5KW)
103	103	104	104	105	105	1.2	
103	103	104	105	105		1.4	
103	103	104	105			1.6	
103	103	104	105	106	106	1.0	3HP (2.2KW)
103	104	104	105	106	106	1.2	
104	105	105	106	106	106	1.4	
104	105	106	106	106		1.6	
104	105	106	106	107	107	1.0	5HP (3.7KW)
106	106	106	106	107	107	1.2	
106	106	106	107	107		1.4	
106	106	106	107			1.6	
106	106	107	107	108	108	1.0	7.5HP (5.5KW)
106	106	107	107	108	108	1.2	
106	106	107	108	108		1.4	
106	107	107	108			1.6	
106	106	107	108	109	109	1.0	10HP (7.5KW)
106	107	107	108	109	109	1.2	
107	107	108	109	109	109	1.4	
107	107	108	109	109		1.6	
107	108	108	109	109	110	1.0	15HP (11KW)
107	108	108	109	110	110	1.2	
108	108	109	110	110	110	1.4	
108	108	109	110	110	110	1.6	
108	108	109	110	110	110	1.0	20HP (15KW)
108	109	109	110	110	110	1.2	
109	109	110	110	110		1.4	
109	109	110				1.6	
109	110	110				1.0	30HP (22KW)
109	110	110				1.2	
110	110	110				1.4	
110	110	110				1.6	
110	110	110				1.0	40HP (30KW)
110	110	110				1.2	
						1.4	
						1.6	
110	110					1.0	50HP (37KW)
						1.2	
						1.4	
						1.6	

4-2 Selection Tables : Single Reduction Type

Single reduction type with 6 pole motor, Reduction ratio 6 ~ 87

Ratio →		6	8	11	13	15	17
Output rpm	60Hz →	200	150	109	92	80	71
	50Hz →	167	125	91	77	67	59
↓ Motor Capa	↓ Load factor						
20HP (15KW)	1.0						
	1.2						
	1.4						
	1.6						
30HP (22KW)	1.0						
	1.2						
	1.4						
	1.6						
40HP (30KW)	1.0			110		110	110
	1.2			110		110	110
	1.4			110		110	110
	1.6			110		122	122
50HP (37KW)	1.0			110		110	110
	1.2			110		110	110
	1.4			110		122	122
	1.6			110		122	122
60HP (45KW)	1.0			(110)			(122)
	1.2			(110)			(122)
	1.4			(122)			111
	1.6			(122)			124
75HP (55KW)	1.0			(110)			(122)
	1.2			(122)			111
	1.4			(122)			124
	1.6			(111)			124

Note: Frame size marked as () must be Line Power type (motor or motor adaptor cannot be installed)

29	43	59	71	87	Ratio	
41	28	20	17	14	← 60Hz	▪ Output rpm
34	23	17	14	11	← 50Hz	▪
					↓ Load factor	↓ Motor Capa
		110	110	122	1.0	20HP (15KW)
		110	122	122	1.2	
		110	111	111	1.4	
		122	124	124	1.6	
	110	110		124	1.0	30HP (22KW)
	110	122		124	1.2	
	110	124		112	1.4	
	122	124			1.6	
110	110	111		112	1.0	40HP (30KW)
110	122	124		125	1.2	
110	111	112		125	1.4	
122	124	112			1.6	
110	122	124		125	1.0	50HP (37KW)
122	124	112		125	1.2	
122	124	112			1.4	
124	112	125			1.6	
(122)	124	112		125	1.0	60HP (45KW)
111	124	112			1.2	
124	112	125			1.4	
112	125	125			1.6	
111	124	112			1.0	75HP (55KW)
124	112	125			1.2	
112	125				1.4	
112	125				1.6	

4-3 Selection Tables : Double Reduction Type

Double reduction type with 4 pole motor(60Hz), Reduction ratio 104 ~ 841

Ratio →		104 (13X8)	121 (11X11)	143 (13X11)	165 (15X11)	187 (17X11)	195 (15X13)	231 (21X11)	273 (21X13)	289 (17X17)	319 (29X11)
Output rpm →		17.3	14.9	12.6	10.9	9.6	9.2	7.8	6.6	6.2	5.6
Motor Capa ↓	Load Factor										
1/4HP (0.2KW)	1.0							232	232	232	232
	1.2							232	232	232	232
	1.4										
	1.6										
1/2HP (0.4KW)	1.0	232	232	232	232	232	232	232	242	242	252
	1.2	232	232	232	232	232	232	242	242	242	262
	1.4										
	1.6										
1HP (0.75KW)	1.0	243	243	246	243	243	243	253	253	263	273
	1.2	243	243	243	253	253	253	253	253	263	273
	1.4										
	1.6										
2HP (1.5KW)	1.0	253	263	263	263	263	263	273	273	273	284
	1.2	263	263	263	263	263	273	284	284	284	284
	1.4										
	1.6										
3HP (2.2KW)	1.0	263	263	263	273	273	273	284	284	284	294
	1.2	263	263	273	273	273	273	284	284	284	294
	1.4										
	1.6										
5HP (3.7KW)	1.0	274	274	284	284	284	284	294	294	294	294
	1.2	274	284	284	284	294	294	294	294	294	2104
	1.4										
	1.6										
7.5HP (5.5KW)	1.0		296		296	296	296	296	2106	2106	2106
	1.2		296		296	296	296	2106	2106	2226	2226
	1.4										
	1.6										
10HP (7.5KW)	1.0		296		296	2106		2106	2226	2226	2226
	1.2		296			2106		2106	2117	2117	2117
	1.4										
	1.6										
15HP (11KW)	1.0		2106			2117		2117	2117	2246	2246
	1.2		2116			2246		2246	2246	2246	2246
	1.4										
	1.6										
20HP (15KW)	1.0		2117			2247		2247	2247	2247	2258
	1.2		2247			2128				2128	2258
	1.4										
	1.6										
30HP (22KW)	1.0		2258			2258				2258	(2258)
	1.2		2258			2258				(2258)	
	1.4										
	1.6										

Note: Frame size marked as () must be Line Power type (motor or motor adaptor cannot be installed)

377 (29X13)	385 (35X11)	473 (43X11)	493 (29X17)	559 (43X13)	595 (35X17)	649 (59X11)	731 (43X17)	841 (29X29)	← Ratio
4.8	4.7	3.8	3.7	3.2	3.0	2.8	2.5	2.1	← Output rpm
									↓ Load Factor ↓ Motor Capa
232	232	232	242	242	242	242	(242)	(242)	1.0
232	232	242	242	242					1.2
									1.4
									1.6
252	252	252	262	262	262	262	262	262	1.0
252	262	262	262	262	262	262	272	272	1.2
									1.4
									1.6
273	273	273	273	273	273	273	284	284	1.0
273	273	273	273	273	284	284	284	284	1.2
									1.4
									1.6
284	284	284	284	294	294	294	294	294	1.0
284	284	294	294	294	294	294	294	2104	1.2
									1.4
									1.6
294	294	294	294	294	294	2104	2104	2104	1.0
294	294	294	294	2104	2104	2104	2104	2224	1.2
									1.4
									1.6
2104	2104	2104	2104	2104	2104	2224	2116	2116	1.0
2104	2104	2104	2224	2224	2224	2116	2246	2246	1.2
									1.4
									1.6
2106	2226	2226	2116	2116		2246	2246	2128	1.0
2226	2226	2117	2117	2247		2247	2128	2128	1.2
									1.4
									1.6
2117		2246	2246	2246		2128	2128	2258	1.0
2117		2247	2258	2258		2258	2258	2258	1.2
									1.4
									1.6
2246		2128	2128	2258		2258	(2258)	(2258)	1.0
2128		2258	2258	2258					1.2
									1.4
									1.6
2258		2258	(2258)	(2258)		(2258)	(2258)	(2258)	1.0
2258									1.2
									1.4
									1.6
(2258)		(2258)	(2258)	(2258)		(2258)	(2258)	(2258)	1.0
									1.2
									1.4
									1.6

4-3 Selection Tables : Double Reduction Type

Double reduction type with 4 pole motor(60Hz), Reduction ratio 957 ~ 7569

Ratio →		957 (87X11)	1003 (59X17)	1015 (35X29)	1225 (35X35)	1247 (43X29)	1479 (87X17)	1505 (43X35)	1711 (59X29)	1849 (43X43)	2065 (59X35)
Output rpm →		1.9	1.8	1.8	1.5	1.4	1.2	1.2	1.1	0.97	0.87
↓ Motor Capa	↓ Load Factor										
1/4HP (0.2KW)	1.0	(242)	(242)	(242)	(242)	(242)	(242)	(242)	(242)	(242)	(242)
	1.2										
	1.4										
	1.6										
1/2HP (0.4KW)	1.0	272	272	272	272	272	282	282	282	282	(282)
	1.2	272	272	272	282	282	282	282			
	1.4										
	1.6										
1HP (0.75KW)	1.0	293	293	293	293	293	293	293	293	(293)	(293)
	1.2	293	293	293	293	293	293	293			
	1.4										
	1.6										
2HP (1.5KW)	1.0	2104	2104	2104	2104	2104	2224	2224	2224	(2224)	(2224)
	1.2	2104	2104	2104	2104	2224	2224				
	1.4										
	1.6										
3HP (2.2KW)	1.0	2104	2104	2224	2116	2116	2116	2116	(2116)	(2116)	(2116)
	1.2	2224	2224	2116	2116						
	1.4										
	1.6										
5HP (3.7KW)	1.0	2246	2246	2246	(2246)	(2246)	(2246)	(2246)	(2246)	(2246)	(2246)
	1.2	2246									
	1.4										
	1.6										
7.5HP (5.5KW)	1.0	2128	2128	2128	(2128)	(2128)	(2128)	(2128)	(2128)	(2128)	(2128)
	1.2										
	1.4										
	1.6										
10HP (7.5KW)	1.0	2258	2258	2258	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)
	1.2										
	1.4										
	1.6										
15HP (11KW)	1.0	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)
	1.2										
	1.4										
	1.6										
20HP (15KW)	1.0	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)
	1.2										
	1.4										
	1.6										
30HP (22KW)	1.0	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)
	1.2										
	1.4										
	1.6										

Note: Frame size marked as () must be Line Power type (motor or motor adaptor cannot be installed)

4-3 Selection Tables : Double Reduction Type

2523 (87X29)	2537 (59X43)	3045 (87X35)	3481 (59X59)	3741 (87X43)	4437 (87X51)	5133 (87X59)	6177 (87X71)	7569 (87X87)	← Ratio
0.71	0.71	0.59	0.52	0.48	0.41	0.35	0.29	0.24	← Output RPM
									↓ Load Factor ↓ Motor Capa
(242)	(242)	(242)	(242)	(242)	(242)	(242)	(242)	(242)	1.0
									1.2
									1.4
									1.6
(282)	(282)	(282)	(282)	(282)	(282)	(282)	(282)	(282)	1.0
									1.2
									1.4
									1.6
(293)	(293)	(293)	(293)	(293)	(293)	(293)	(293)	(293)	1.0
									1.2
									1.4
									1.6
(2224)	(2224)	(2224)	(2224)	(2224)	(2224)	(2224)	(2224)	(2224)	1.0
									1.2
									1.4
									1.6
(2116)	(2116)	(2116)	(2116)	(2116)	(2116)	(2116)	(2116)	(2116)	1.0
									1.2
									1.4
									1.6
(2246)	(2246)	(2246)	(2246)	(2246)	(2246)	(2246)	(2246)	(2246)	1.0
									1.2
									1.4
									1.6
(2128)	(2128)	(2128)	(2128)	(2128)	(2128)	(2128)	(2128)	(2128)	1.0
									1.2
									1.4
									1.6
(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	1.0
									1.2
									1.4
									1.6
(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	1.0
									1.2
									1.4
									1.6
(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	1.0
									1.2
									1.4
									1.6
(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	1.0
									1.2
									1.4
									1.6

4-3 Selection Tables : Double Reduction Type

Double reduction type with 4 pole motor(50Hz), Reduction ratio 104 ~ 841

Ratio →		104 (13X8)	121 (11X11)	143 (13X11)	165 (15X11)	187 (17X11)	195 (15X13)	231 (21X11)	273 (21X13)	289 (17X17)
Output RPM →		14.4	12.4	10.4	9.1	8.0	7.7	6.5	5.5	5.2
↓ Motor Capa	↓ Load Factor									
1/4HP (0.2KW)	1.0							232	232	232
	1.2							232	232	232
	1.4									
	1.6									
1/2HP (0.4KW)	1.0	232	232	232	232	232	232	242	242	242
	1.2	232	232	232	232	242	242	242	252	252
	1.4									
	1.6									
1HP (0.75KW)	1.0	243	243	243	253	253	253	263	263	263
	1.2	243	243	253	253	263	263	263	263	263
	1.4									
	1.6									
2HP (1.5KW)	1.0	263	263	263	263	263	273	273	273	273
	1.2	263	263	263	273	273	273	273	284	284
	1.4									
	1.6									
3HP (2.2KW)	1.0	263	263	273	273	273	273	284	284	284
	1.2	263	273	273	284	294	294	294	294	294
	1.4									
	1.6									
5HP (3.7KW)	1.0	274	284	284	284	294	294	294	294	294
	1.2	284	284	294	294	294	294	294	2104	2104
	1.4									
	1.6									
7.5HP (5.5KW)	1.0		296		296	296	296	2106	2106	2106
	1.2		296		296	2106	2106	2106	2106	2226
	1.4									
	1.6									
10HP (7.5KW)	1.0		296			2106	2106	2226	2226	2226
	1.2		296			2106		2226	2117	2117
	1.4									
	1.6									
15HP (11KW)	1.0		2117			2226		2247	2247	2247
	1.2		2117			2117		2247	2247	2128
	1.4									
	1.6									
20HP (15KW)	1.0		2117			2247		2247		2128
	1.2		2247			2128				2258
	1.4									
	1.6									
30HP (22KW)	1.0		2258			2258				(2258)
	1.2		2258			2258				
	1.4									
	1.6									

Note: Frame size marked as () must be Line Power type (motor or motor adaptor cannot be installed)

319 (29X11)	377 (29X13)	385 (35X11)	473 (43X11)	493 (29X17)	559 (43X13)	595 (35X17)	649 (59X11)	731 (43X17)	841 (29X29)	←	Ratio
4.7	4.0	3.9	3.2	3.0	2.7	2.5	2.3	2.1	1.8	←	Output RPM
										↓ Load Factor	↓ Motor Capa
232	232	232	242	242	242	242	(242)	(242)	(242)	1.0	1/4HP (0.2KW)
232	242	242	242	242						1.2	
										1.4	
										1.6	
252	252	252	262	262	262	262	262	272	272	1.0	1/2HP (0.4KW)
252	262	262	262	262	262	272	272	272	272	1.2	
										1.4	
										1.6	
263	263	273	273	273	273	284	284	284	284	1.0	1HP (0.75KW)
273	273	273	273	284	284	284	284	293	293	1.2	
										1.4	
										1.6	
284	284	284	294	294	294	294	294	294	2104	1.0	2HP (1.5KW)
284	294	294	294	294	294	294	2104	2104	2104	1.2	
										1.4	
										1.6	
294	294	294	294	294	2104	2104	2104	2104	2104	1.0	3HP (2.2KW)
294	294	294	2104	2104	2104	2104	2104	2224	2224	1.2	
										1.4	
										1.6	
2104	2104	2104	2104	2224	2224	2224	2116	2116	2246	1.0	5HP (3.7KW)
2104	2104	2104	2224	2224	2246		2246	2246		1.2	
										1.4	
										1.6	
2106	2226	2226	2116	2116	2246		2246	2128	2128	1.0	7.5HP (5.5KW)
2226	2116		2246	2246	2246		2128	2128		1.2	
										1.4	
										1.6	
2117	2117		2247	2128	2128		2258	2258	2258	1.0	10HP (7.5KW)
2247	2247		2128	2128	2258		2258			1.2	
										1.4	
										1.6	
2247	2128		2258	2258	2258		(2258)	(2258)	(2258)	1.0	15HP (11KW)
2128	2258		2258							1.2	
										1.4	
										1.6	
2258	2258		(2258)	(2258)	(2258)		(2258)	(2258)	(2258)	1.0	20HP (15KW)
2258										1.2	
										1.4	
										1.6	
(2258)	(2258)		(2258)	(2258)	(2258)		(2258)	(2258)	(2258)	1.0	30HP (22KW)
										1.2	
										1.4	
										1.6	

4-3 Selection Tables : Double Reduction Type

Double reduction type with 4 pole motor(50Hz), Reduction ratio 957 ~ 7569

Ratio →		957 (87X11)	1003 (59X17)	1015 (35X29)	1225 (35X35)	1247 (43X29)	1479 (87X17)	1505 (43X35)	1711 (59X29)	1849 (43X43)
Output RPM →		1.6	1.5	1.5	1.2	1.2	1.0	1.0	0.88	0.81
↓ Motor Capa	↓ Load Factor									
1/4HP (0.2KW)	1.0	(242)	(242)	(242)	(242)	(242)	(242)	(242)	(242)	(242)
	1.2									
	1.4									
	1.6									
1/2HP (0.4KW)	1.0	272	272	272	282	282	282	282	(282)	(282)
	1.2	282	282	282	282	282				
	1.4									
	1.6									
1HP (0.75KW)	1.0	293	293	293	293	293	293	293	(293)	(293)
	1.2	293	293	293	293	293				
	1.4									
	1.6									
2HP (1.5KW)	1.0	2104	2104	2104	2224	2224	(2224)	(2224)	(2224)	(2224)
	1.2	2104	2104	2104						
	1.4									
	1.6									
3HP (2.2KW)	1.0	2224	2224	2224	2116	2116	(2116)	(2116)	(2116)	(2116)
	1.2	2116	2116	2116						
	1.4									
	1.6									
5HP (3.7KW)	1.0	2246	(2246)	(2246)	(2246)	(2246)	(2246)	(2246)	(2246)	(2246)
	1.2									
	1.4									
	1.6									
7.5HP (5.5KW)	1.0	(2128)	(2128)	(2128)	(2128)	(2128)	(2128)	(2128)	(2128)	(2128)
	1.2									
	1.4									
	1.6									
10HP (7.5KW)	1.0	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)
	1.2									
	1.4									
	1.6									
15HP (11KW)	1.0	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)
	1.2									
	1.4									
	1.6									
20HP (15KW)	1.0	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)
	1.2									
	1.4									
	1.6									
30HP (22KW)	1.0	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)
	1.2									
	1.4									
	1.6									

Note: Frame size marked as () must be Line Power type (motor or motor adaptor cannot be installed)

2065 (59X35)	2523 (87X29)	2537 (59X43)	3045 (87X35)	3481 (59X59)	3741 (87X43)	4437 (87X51)	5133 (87X59)	6177 (87X71)	7569 (87X87)	← Ratio	
0.73	0.59	0.59	0.49	0.43	0.40	0.34	0.29	0.24	0.20	← Output RPM	
										↓ Load Factor	↓ Motor Capa
(242)	(242)	(242)	(242)	(242)	(242)	(242)	(242)	(242)	(242)	1.0	1/4HP (0.2KW)
										1.2	
										1.4	
										1.6	
(282)	(282)	(282)	(282)	(282)	(282)	(282)	(282)	(282)	(282)	1.0	1/2HP (0.4KW)
										1.2	
										1.4	
										1.6	
(293)	(293)	(293)	(293)	(293)	(293)	(293)	(293)	(293)	(293)	1.0	1HP (0.75KW)
										1.2	
										1.4	
										1.6	
(2224)	(2224)	(2224)	(2224)	(2224)	(2224)	(2224)	(2224)	(2224)	(2224)	1.0	2HP (1.5KW)
										1.2	
										1.4	
										1.6	
(2116)	(2116)	(2116)	(2116)	(2116)	(2116)	(2116)	(2116)	(2116)	(2116)	1.0	3HP (2.2KW)
										1.2	
										1.4	
										1.6	
(2246)	(2246)	(2246)	(2246)	(2246)	(2246)	(2246)	(2246)	(2246)	(2246)	1.0	5HP (3.7KW)
										1.2	
										1.4	
										1.6	
(2128)	(2128)	(2128)	(2128)	(2128)	(2128)	(2128)	(2128)	(2128)	(2128)	1.0	7.5HP (5.5KW)
										1.2	
										1.4	
										1.6	
(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	1.0	10HP (7.5KW)
										1.2	
										1.4	
										1.6	
(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	1.0	15HP (11KW)
										1.2	
										1.4	
										1.6	
(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	1.0	20HP (15KW)
										1.2	
										1.4	
										1.6	
(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	(2258)	1.0	30HP (22KW)
										1.2	
										1.4	
										1.6	



With a well-built mass production line,
we offer reasonable prices.

1

About Us

2

About M-Drive

3

Selection Process

4

Selection Tables

5

Dimensions

5-1

Dimensional Differences Due to Lubrication

5-2

Drawing Pages

5-3

Case Mounting Type

5-4

Base Mounting Type

5-5

Flange Mounting Type

6

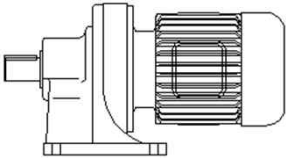
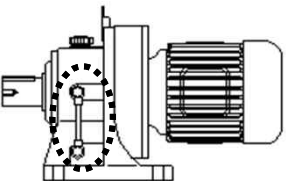
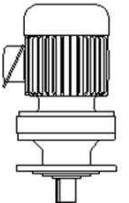
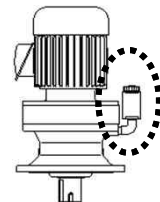
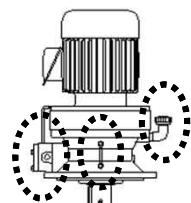
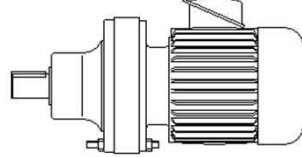
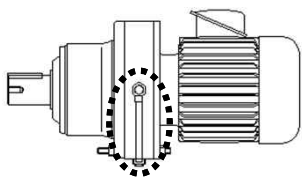
User Manual

7

Technical Information

5-1 Dimensional Differences Due to Lubrication

- Reducer dimension varies by lubrication type, and we applied the most common lubrication type for drawings. If drawings with a different lubrication type are required, please contact the sales department.
- Lubrication type should be carefully selected by considering operation temperature, output shaft direction, etc. Please discuss with the sales department or HDM dealers before purchasing.

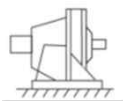
Mounting	Output direction	Lubri-cation	Dimensional difference		Applied frame #
C A S E	H O R I Z O N T A L	G R E A S E	⇒ 		• Single reduction: 102~103 • Double reduction: 232~282
		B A T H O I L	⇒ 	Oil gauge attached on the side	• Single reduction: 104~125 • Double reduction: 243~2258
B A S E	V E R T I C A L (D O W N)	G R E A S E	⇒ 		• Single reduction: 102~103 • Double reduction: 232~2258
		B A T H O I L	⇒ 	Oil cup attached on the side	
		P U M P O I L	⇒ 	Oil gauge and circulation pump attached on both sides	• Single reduction: 104~125
F L A N G E	H O R I Z O N T A L	G R E A S E	⇒ 		• Single reduction: 102~110 • Double reduction: 232~2258
		B A T H O I L	⇒ 	Oil gauge attached on the side	

5-2 Drawing Pages

Model			Reduction	Frame	Common lubrication type	Page no.
C A S E M O U N T	L I N E P O W E R (L P)	M S H	Single	102-103	Grease	p.33
				104-124	Oil bath	p.34
				112-125	Oil bath	p.35
			Double	232-282	Grease	p.36
				243-296	Oil bath	p.37
				2104-2247	Oil bath	p.38
		M S H S	Single	102-103	Grease	p.40
				104-110	Oil bath	p.41
				232-282	Grease	p.42
			Double	243-2106	Oil bath	p.43
				102-103	Grease	p.44
				104-107	Oil bath	p.45
	D I R E C T C O N N E C T I O N	M M H	Single	108-109	Oil bath	p.46
				110-122	Oil bath	p.47
				111-124	Oil bath	p.48
			Double	112-125	Oil bath	p.49
				232-282	Grease	p.50
				243-263	Oil bath	p.51
		M M H S	Single	273-284	Oil bath	p.52
				293-296	Oil bath	p.53
				2104-2226	Oil bath	p.54
			Double	2116-2247	Oil bath	p.55
				2128-2258	Oil bath	p.56
				102-103	Grease	p.57
		M M J H	Single	104-106	Oil bath	p.58
				107-110	Oil bath	p.59
				232-282	Grease	p.60
			Double	243-284	Oil bath	p.61
				293-2106	Oil bath	p.62
				102-103	Grease	p.63
		M M J H S	Single	104-106	Oil bath	p.64
				107-108	Oil bath	p.65
				109-122	Oil bath	p.66
			Double	111-124	Oil bath	p.67
				112-125	Oil bath	p.68
				232-282	Grease	p.69
		M M J H S	Single	243-263	Oil bath	p.70
				273-284	Oil bath	p.71
				293-296	Oil bath	p.72
			Double	2104-2226	Oil bath	p.73
				2116-2247	Oil bath	p.74
				2128-2258	Oil bath	p.75
		M M J H S	Single	102-103	Grease	p.76
				104-106	Oil bath	p.77
				107-110	Oil bath	p.78
			Double	232-282	Grease	p.79
				243-263	Oil bath	p.80
				273-284	Oil bath	p.81
		M J H	Single	293-2106	Oil bath	p.82
				102-103	Grease	p.83
				104-106	Oil bath	p.84
			Double	107-109	Oil bath	p.85
				110-124	Oil bath	p.86
				112-125	Oil bath	p.87
		M J H S	Single	232-282	Grease	p.88
				243-284	Oil bath	p.89
				293-2226	Oil bath	p.90
			Double	2116-2247	Oil bath	p.91
				2128-2258	Oil bath	p.92
				102-103	Grease	p.93
		M J H S	Single	104-106	Oil bath	p.94
				107-110	Oil bath	p.95
				232-282	Grease	p.96
			Double	243-284	Oil bath	p.97
				293-2106	Oil bath	p.98

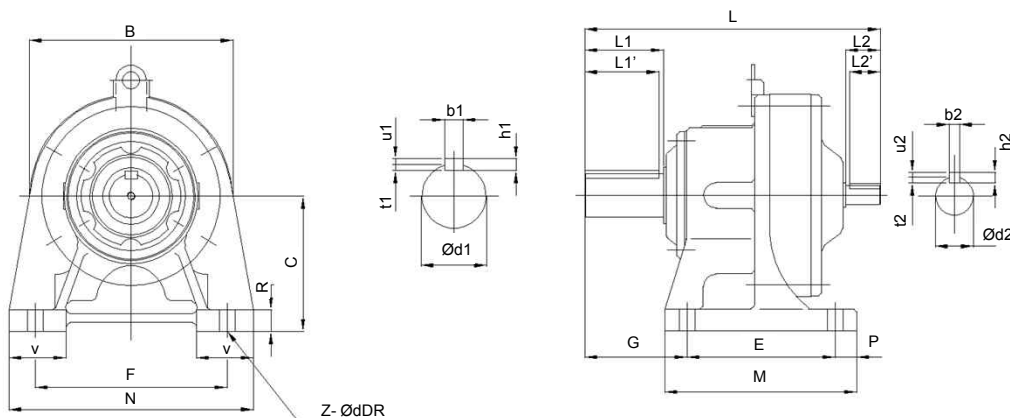
Model			Reduction	Frame	Common lubrication type	Page no.
B A S E M O U N T	L P	M S V	Single	102-103	Grease	p.99
				104-125	Oil pump	p.100
				232-282	Grease	p.101
			Double	243-296	Grease	p.102
				2104-2258	Grease	p.103
				102-103	Grease	p.104
	C O N N E C T I O N	M M V	Single	104-106	Oil pump	p.105
				107-108	Oil pump	p.106
				109-122	Oil pump	p.107
			Double	111-124	Oil pump	p.108
				112-125	Oil pump	p.109
				232-282	Grease	p.110
		M M J V	Single	243-263	Grease	p.111
				273-284	Grease	p.112
				293-296	Grease	p.113
			Double	2104-2226	Grease	p.114
				2116-2247	Grease	p.115
				2128-2258	Grease	p.116
		M M J V	Single	102-103	Grease	p.117
				104-107	Oil pump	p.118
				108-122	Oil pump	p.119
			Double	111-125	Oil pump	p.120
				232-282	Grease	p.121
				243-284	Grease	p.122
		M J V	Single	293-2226	Grease	p.123
				2116-2258	Grease	p.124
				102-103	Grease	p.125
		M J V	Single	104-106	Oil pump	p.126
				107-108	Oil pump	p.127
				109-122	Oil pump	p.128
			Double	111-125	Oil pump	p.129
				232-282	Grease	p.130
				243-284	Grease	p.131
		M S F H	Single	293-2226	Grease	p.132
				2116-2258	Grease	p.133
				102-103	Grease	p.134
	F L A N G E M O U N T	M S F H	Single	104-125	Grease	p.135
				232-282	Grease	p.136
				243-2226	Grease	p.137
			Double	2116-2258	Grease	p.138
				102-103	Grease	p.139
		M M F H	Single	104-107	Grease	p.140
				108-109	Grease	p.141
				110-122	Grease	p.142
			Double	111-124	Grease	p.143
				112-125	Grease	p.144
				232-282	Grease	p.145
		M M J F H	Single	243-284	Grease	p.146
				293-2106	Grease	p.147
				2116-2247	Grease	p.148
			Double	2128-2258	Grease	p.149
				102-103	Grease	p.150
		A D A P T E R	Single	104-107	Grease	p.151
				108-122	Grease	p.152
				111-125	Grease	p.153
			Double	232-282	Grease	p.154
				243-284	Grease	p.155
				293-2226	Grease	p.156
		A D A P T E R	Single	2116-2258	Grease	p.157
				102-103	Grease	p.158
				104-107	Grease	p.159
			Double	108-122	Grease	p.160
				111-125	Grease	p.161
				232-282	Grease	p.162

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MSH-Single reduction type

MSH-102~103

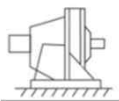


Frame	L	C	B	E	F	G	M	N	P	R	V	Z	d	weight (KG)
102	208	105	162	120	140	58	160	185	20	17	45	4	13	15
103	259	135	208	150	195	80	190	245	20	18	60	4	14	25

Model	Output shaft dimension							Input shaft dimension						
	d1	L1	L1'	b1	h1	t1	u1	d2	L2	L2'	b2	h2	t2	u2
MSH-102	28	35	30	8	7	4	3	15	25	23	5	5	3	2
MSH-103	38	55	50	10	8	5	3	18	35	30	6	6	3.5	2.5

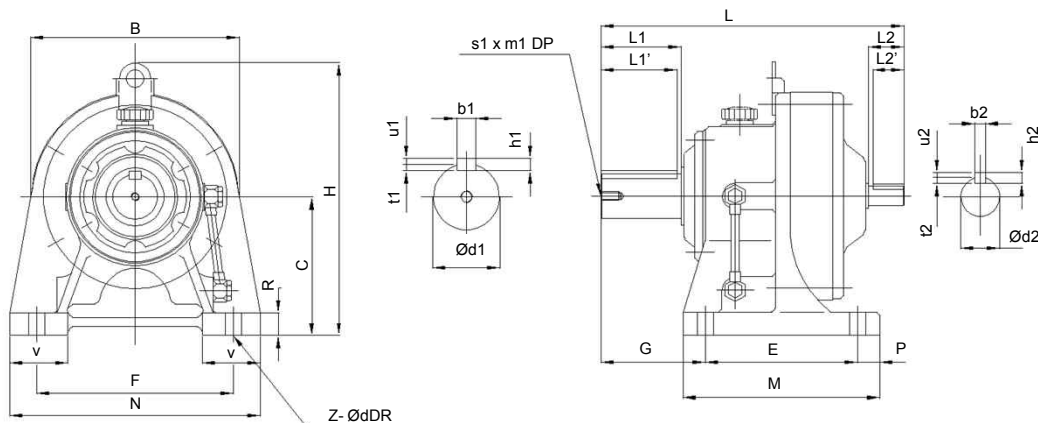
- Note 1) Applied h6 allowance level for output shaft and input shaft dimension.
2) Applied parallel key (KS B 1311-84) dimension.
3) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MSH-Single reduction type

MSH-104~124



Frame	L	C	B	E	F	G	H	M	N	P	R	V	Z	d	weight (KG)
104	320	155	232	170	220	97	305	220	280	25	25	65	4	18	43
105	340	155	232	170	220	117	305	220	280	25	25	65	4	18	44
106	413	165	307	200	280	137	359	270	355	35	25	80	4	18	85
107	477	210	340	300	310	132	429	360	390	30	35	90	4	22	123
108	527	230	370	340	340	154	463	400	435	30	35	100	4	22	154
109	620	270	430	370	450	172	553	440	530	35	50	100	4	26	243
110	740	290	505	480	500	210	614	570	620	45	45	125	4	26	386
122	740	290	505	480	500	210	614	570	620	45	45	125	4	26	394
111	851	325	575	500	630	291	703	600	690	50	45	125	4	26	544
124	851	325	575	500	630	291	703	600	690	50	45	125	4	26	572

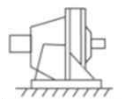
Model	Output shaft dimension									Input shaft dimension						
	d1	L1	L1'	b1	h1	t1	u1	s1	m1	d2	L2	L2'	b2	h2	t2	u2
MSH-104	50	70	65	14	9	5.5	3.5	M10	20	22	40	35	6	6	3.5	2.5
MSH-105	50	90	85	14	9	5.5	3.5	M10	20	22	40	35	6	6	3.5	2.5
MSH-106	60	90	80	18	11	7	4	M10	20	30	64	40	8	7	4	3
MSH-107	70	90	85	20	12	7.5	4.5	M12	25	35	72	50	10	8	5	3
MSH-108	80	110	100	22	14	9	5	M12	25	40	82	60	12	8	5	3
MSH-109	95	135	130	25	14	9	5	M20	35	45	92	65	14	9	5.5	3.5
MSH-110	110	170	165	28	16	10	6	M20	35	50	102	75	14	9	5.5	3.5
MSH-122	120	170	165	32	18	11	7	M20	35	55	102	75	16	10	6	4
MSH-111	120	210	200	32	18	11	7	M24	45	55	107	80	16	10	6	4
MSH-124	140	210	200	36	20	12	8	M24	45	65	107	80	18	11	7	4

Note 1) Applied h6 allowance level for output shaft and input shaft dimension.

2) Applied parallel key (KS B 1311-84) dimension.

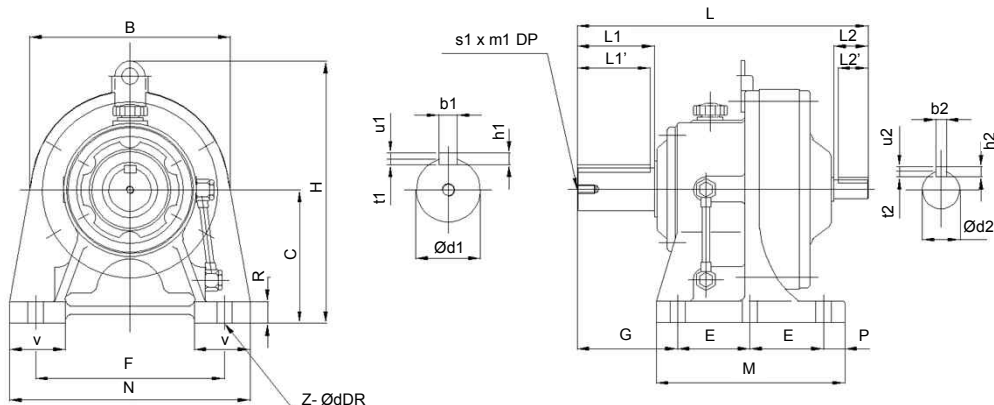
3) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MSH-Single reduction type

MSH-112~125



Frame	L	C	B	E	F	G	H	M	N	P	R	V	Z	d	weight (KG)
112	1110	420	720	330	800	372	890	810	880	75	50	143	6	39	1070
125	1110	420	720	330	800	372	890	810	880	75	50	143	6	39	1100

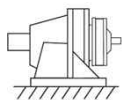
Model	Output shaft dimension									Input shaft dimension						
	d1	L1	L1'	b1	h1	t1	u1	s1	m1	d2	L2	L2'	b2	h2	t2	u2
MSH-112	140	250	245	36	20	12	8	M30	52	70	144	110	18	11	7	4
MSH-125	160	250	245	40	22	13	9	M30	52	80	144	110	22	14	9	5

Note 1) Applied h6 allowance level for output shaft and input shaft dimension.

2) Applied parallel key (KS B 1311-84) dimension.

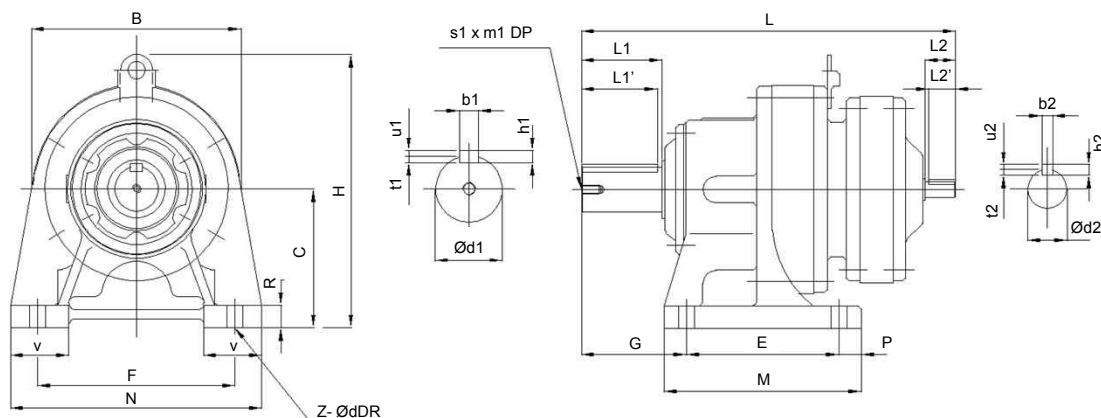
3) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MSH-Double reduction type

MSH-232~282



Frame	L	C	B	E	F	G	H	M	N	P	R	V	Z	d	weight (KG)
232	317	135	208	150	195	80	270	190	245	20	18	60	4	14	40
242	369	155	232	170	220	97	305	220	280	25	25	65	4	18	50
252	389	155	232	170	220	117	305	220	280	25	25	65	4	18	51
262	438	165	307	200	280	137	359	270	355	35	25	80	4	18	94
272	490	210	340	300	310	132	429	360	390	30	35	90	4	22	132
282	526	230	370	340	340	154	463	400	435	30	35	100	4	22	170

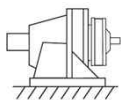
Model	Output shaft dimension									Input shaft dimension						
	d1	L1	L1'	b1	h1	t1	u1	s1	m1	d2	L2	L2'	b2	h2	t2	u2
MSH-232	38	55	50	10	8	5	3	-	-	15	25	23	5	5	3	2
MSH-242	50	70	65	14	9	5.5	3.5	M10	20	15	25	23	5	5	3	2
MSH-252	50	90	80	14	9	5.5	3.5	M10	20	15	25	23	5	5	3	2
MSH-262	60	90	80	18	11	7	4	M10	20	15	25	23	5	5	3	2
MSH-272	70	90	85	20	12	7.5	4.5	M12	25	15	25	23	5	5	3	2
MSH-282	80	110	100	22	14	9	5	M12	25	15	25	23	5	5	3	2

Note 1) Applied h6 allowance level for output shaft and input shaft dimension.

2) Applied parallel key (KS B 1311-84) dimension.

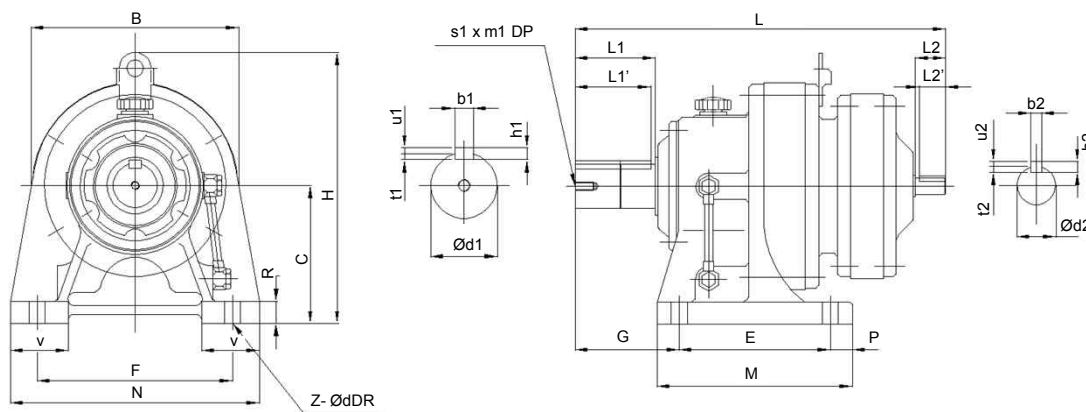
3) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MSH-Double reduction type

MSH-243~296



Frame	L	C	B	E	F	G	H	M	N	P	R	V	Z	d	weight (KG)
243	397	155	232	170	220	97	305	220	280	25	25	65	4	18	53
253	417	155	232	170	220	117	305	220	280	25	25	65	4	18	54
263	462	165	307	200	280	137	359	270	355	35	25	80	4	18	98
273	509	210	340	300	310	132	429	360	390	30	35	90	4	22	136
274	535	210	340	300	310	132	429	360	390	30	35	90	4	22	150
284	577	230	370	340	340	154	463	400	435	30	35	100	4	22	193
293	629	270	430	370	450	172	553	440	530	35	50	100	4	26	273
294	653	270	430	370	450	172	553	440	530	35	50	100	4	26	282
296	706	270	430	370	450	172	553	440	530	35	50	100	4	26	310

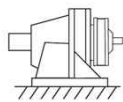
Model	Output shaft dimension									Input shaft dimension						
	d1	L1	L1'	b1	h1	t1	u1	s1	m1	d2	L2	L2'	b2	h2	t2	u2
MSH-243	50	70	65	14	9	5.5	3.5	M10	20	18	35	30	6	6	3.5	2.5
MSH-253	50	90	80	14	9	5.5	3.5	M10	20	18	35	30	6	6	3.5	2.5
MSH-263	60	90	80	18	11	7	4	M10	20	18	35	30	6	6	3.5	2.5
MSH-273	70	90	85	20	12	7.5	4.5	M12	25	18	35	30	6	6	3.5	2.5
MSH-274	70	90	85	20	12	7.5	4.5	M12	25	22	40	35	6	6	3.5	2.5
MSH-284	80	110	100	22	14	9	5	M12	25	22	40	35	6	6	3.5	2.5
MSH-293	95	135	130	25	14	9	5	M20	35	18	35	30	6	6	3.5	2.5
MSH-294	95	135	130	25	14	9	5	M20	35	22	40	35	6	6	3.5	2.5
MSH-296	95	135	130	25	14	9	5	M20	35	30	64	40	8	7	4	3

Note 1) Applied h6 allowance level for output shaft and input shaft dimension.

2) Applied parallel key (KS B 1311-84) dimension.

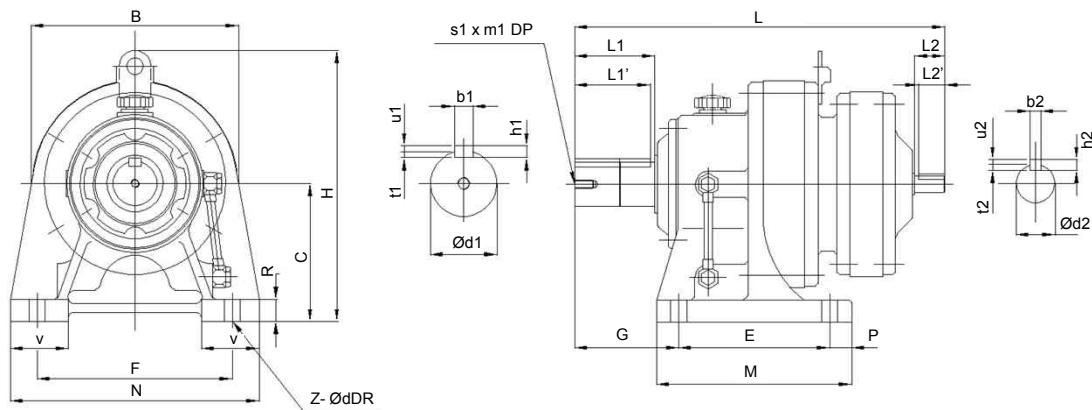
3) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MSH-Double reduction type

MSH-2104~2247



Frame	L	C	B	E	F	G	H	M	N	P	R	V	Z	d	weight (KG)
2104	763	290	505	480	500	210	614	570	620	45	45	125	4	26	413
2106	810	290	505	480	500	210	614	570	620	45	45	125	4	26	428
2224	763	290	505	480	500	210	614	570	620	45	45	125	4	26	421
2226	810	290	505	480	500	210	614	570	620	45	45	125	4	26	436
2116	893	325	575	500	630	291	703	600	690	50	45	125	4	26	546
2117	927	325	575	500	630	291	703	600	690	50	45	125	4	26	573
2246	893	325	575	500	630	291	703	600	690	50	45	125	4	26	574
2247	927	325	575	500	630	291	703	600	690	50	45	125	4	26	601

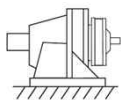
Model	Output shaft dimension									Input shaft dimension						
	d1	L1	L1'	b1	h1	t1	u1	s1	m1	d2	L2	L2'	b2	h2	t2	u2
MSH-2104	110	170	165	28	16	10	6	M20	35	22	40	35	6	6	3.5	2.5
MSH-2106	110	170	165	28	16	10	6	M20	35	30	64	40	8	7	4	3
MSH-2224	120	170	165	32	18	11	7	M20	35	22	40	35	6	6	3.5	2.5
MSH-2226	120	170	165	32	18	11	7	M20	35	30	64	40	8	7	4	3
MSH-2116	120	210	200	32	18	11	7	M24	45	30	64	40	8	7	4	3
MSH-2117	120	210	200	32	18	11	7	M24	45	35	72	50	10	8	5	3
MSH-2246	140	210	200	36	20	12	8	M24	45	30	64	40	8	7	4	3
MSH-2247	140	210	200	36	20	12	8	M24	45	35	72	50	10	8	5	3

Note 1) Applied h6 allowance level for output shaft and input shaft dimension.

2) Applied parallel key (KS B 1311-84) dimension.

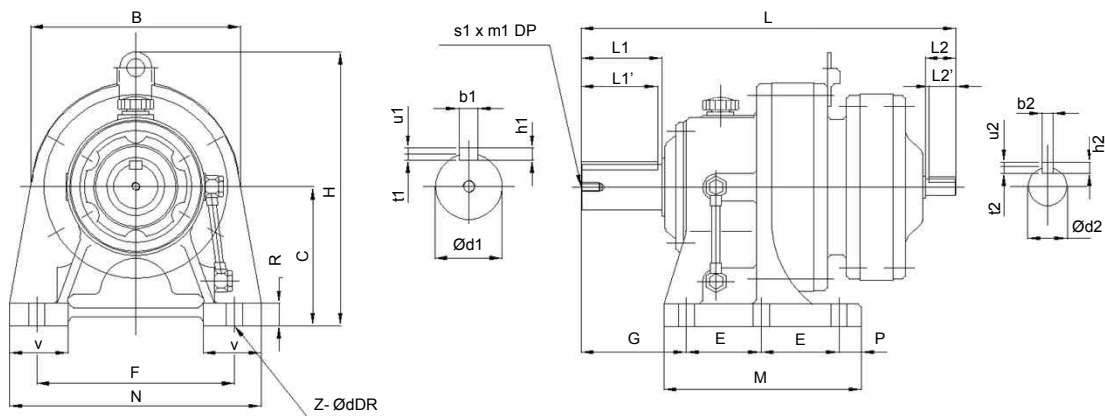
3) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MSH-Double reduction type

MSH-2128~2258



Frame	L	C	B	E	F	G	H	M	N	P	R	V	Z	d	weight (KG)
2128	1158	420	720	330	800	372	890	810	880	75	50	143	6	39	1145
2258	1158	420	720	330	800	372	890	810	880	75	50	143	6	39	1175

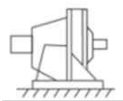
Model	Output shaft dimension									Input shaft dimension						
	d1	L1	L1'	b1	h1	t1	u1	s1	m1	d2	L2	L2'	b2	h2	t2	u2
MSH-2128	140	250	245	36	20	12	8	M30	52	40	82	60	12	8	5	3
MSH-2258	160	250	245	40	22	13	9	M30	52	40	82	60	12	8	5	3

Note 1) Applied h6 allowance level for output shaft and input shaft dimension.

2) Applied parallel key (KS B 1311-84) dimension.

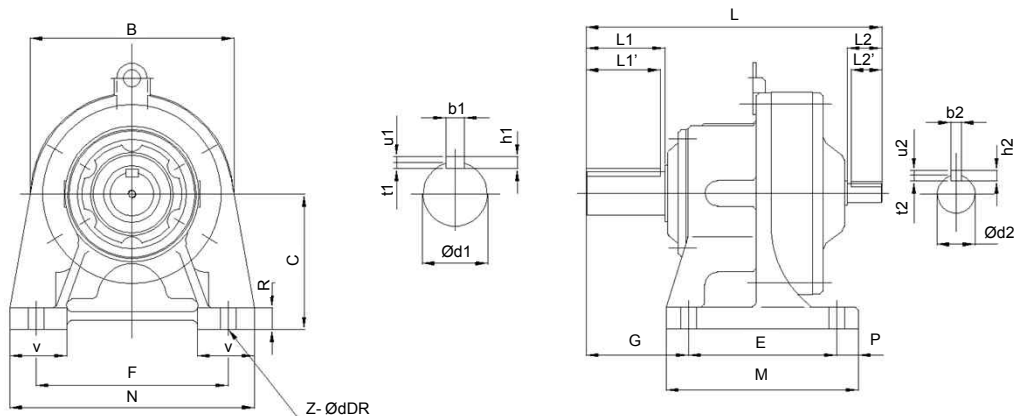
3) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MSHS-Single reduction type

MSHS-102~103



Frame	L	C	B	E	F	G	M	N	P	R	V	Z	d	weight (KG)
102	208	100	162	90	150	60	135	180	15	12	40	4	11	15
103	259	120	208	115	190	82	155	230	20	15	55	4	14	25

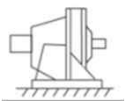
Model	Output shaft dimension							Input shaft dimension						
	d1	L1	L1'	b1	h1	t1	u1	d2	L2	L2'	b2	h2	t2	u2
MSHS-102	28	35	30	8	7	4	3	15	25	23	5	5	3	2
MSHS-103	38	55	50	10	8	5	3	18	35	30	6	6	3.5	2.5

Note 1) Applied h6 allowance level for output shaft and input shaft dimension.

2) Applied parallel key (KS B 1311-84) dimension.

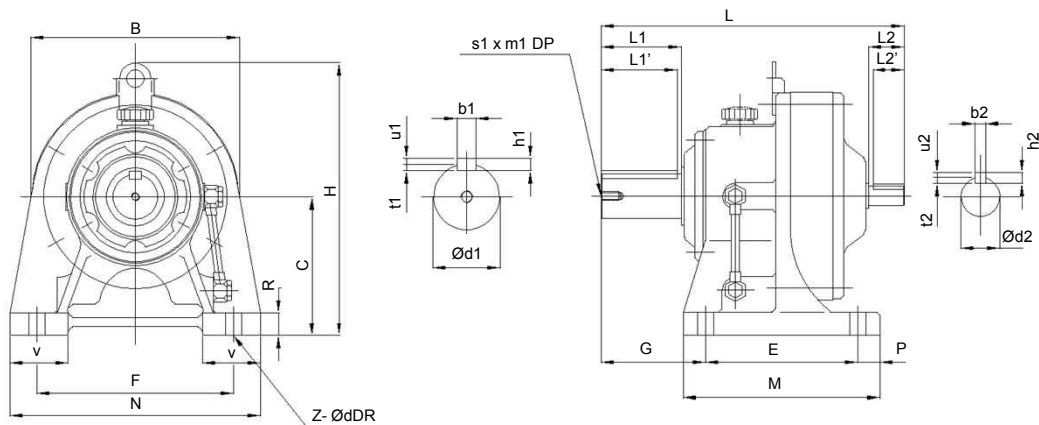
3) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MSHS-Single reduction type

MSHS-104~110



Frame	L	C	B	E	F	G	H	M	N	P	R	V	Z	d	weight (KG)
104	320	150	232	145	290	100	300	195	330	25	22	65	4	18	43
105	340	150	232	145	290	120	300	195	330	25	22	65	4	18	44
106	413	160	307	150	370	139	349	238	410	44	25	75	4	18	85
107	477	200	340	275	380	125	416	335	430	30	30	80	4	22	123
108	527	220	370	320	420	145	451	380	470	30	30	85	4	22	154
109	620	250	430	380	480	170	531	440	530	30	35	90	4	26	243
110	708	265	485	395	480	210	575	475	580	40	40	110	4	26	336

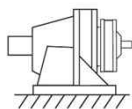
Model	Output shaft dimension									Input shaft dimension						
	d1	L1	L1'	b1	h1	t1	u1	s1	m1	d2	L2	L2'	b2	h2	t2	u2
MSHS-104	50	70	65	14	9	5.5	3.5	M10	20	22	40	35	6	6	3.5	2.5
MSHS-105	50	90	80	14	9	5.5	3.5	M10	20	22	40	35	6	6	3.5	2.5
MSHS-106	60	90	80	18	11	7	4	M10	20	30	64	40	8	7	4	3
MSHS-107	70	90	85	20	12	7.5	4.5	M12	25	35	72	50	10	8	5	3
MSHS-108	80	110	100	22	14	9	5	M12	25	40	82	60	12	8	5	3
MSHS-109	95	135	130	25	14	9	5	M20	35	45	92	65	14	9	5.5	3.5
MSHS-110	110	165	160	28	16	10	6	M20	35	50	82	55	14	9	5.5	3.5

Note 1) Applied h6 allowance level for output shaft and input shaft dimension.

2) Applied parallel key (KS B 1311-84) dimension.

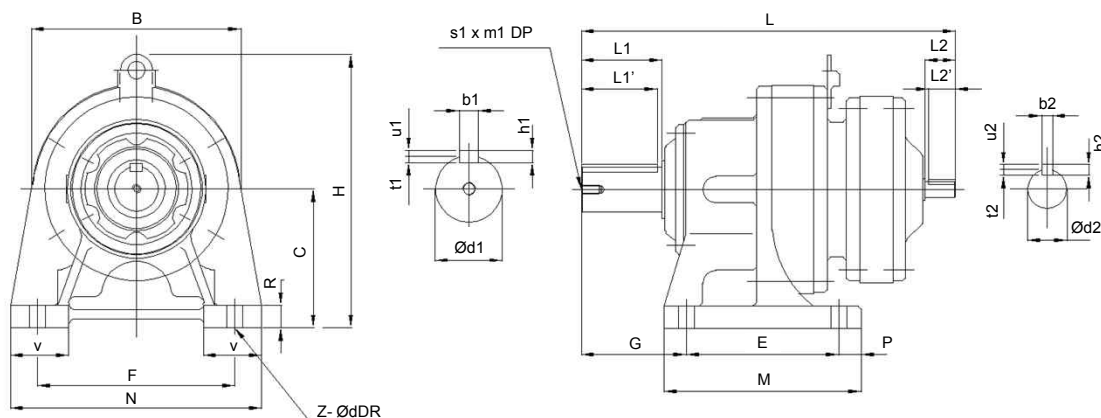
3) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MSHS-Double reduction type

MSHS-232~282



Frame	L	C	B	E	F	G	H	M	N	P	R	V	Z	d	weight (KG)
232	317	120	208	115	190	82	257	155	230	20	15	55	4	14	40
242	369	150	232	145	290	100	300	195	330	25	22	65	4	18	50
252	389	150	232	145	290	120	300	195	330	25	22	65	4	18	51
262	438	160	307	150	370	139	349	238	410	44	25	75	4	18	94
272	490	200	340	275	380	125	416	335	430	30	30	80	4	22	132
282	526	220	370	320	420	145	451	380	470	30	30	85	4	22	170

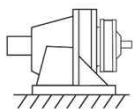
Model	Output shaft dimension									Input shaft dimension						
	d1	L1	L1'	b1	h1	t1	u1	s1	m1	d2	L2	L2'	b2	h2	t2	u2
MSHS-232	38	55	50	10	8	5	3	-	-	15	25	23	5	5	3	2
MSHS-242	50	70	65	14	9	5.5	3.5	M10	20	15	25	23	5	5	3	2
MSHS-252	50	90	80	14	9	5.5	3.5	M10	20	15	25	23	5	5	3	2
MSHS-262	60	90	80	18	11	7	4	M10	20	15	25	23	5	5	3	2
MSHS-272	70	90	85	20	12	7.5	4.5	M12	25	15	25	23	5	5	3	2
MSHS-282	80	110	100	22	14	9	5	M12	25	15	25	23	5	5	3	2

Note 1) Applied h6 allowance level for output shaft and input shaft dimension.

2) Applied parallel key (KS B 1311-84) dimension.

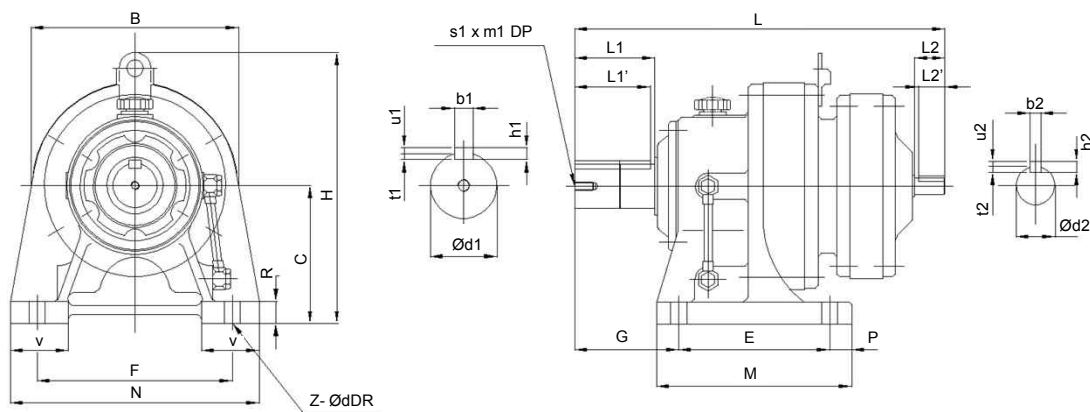
3) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MSHS-Double reduction type

MSHS-243~2106



Frame	L	C	B	E	F	G	H	M	N	P	R	V	Z	d	weight (KG)
243	397	150	232	145	290	100	300	195	330	25	22	65	4	18	53
253	417	150	232	145	290	120	300	195	330	25	22	65	4	18	54
263	462	160	307	150	370	139	349	238	410	44	25	75	4	18	98
273	509	200	340	275	380	125	416	335	430	30	30	80	4	22	136
274	535	200	340	275	380	125	416	335	430	30	30	80	4	22	150
284	577	220	370	320	420	145	451	380	470	30	30	85	4	22	193
293	629	250	430	380	480	170	531	440	530	30	35	90	4	26	273
294	653	250	430	380	480	170	531	440	530	30	35	90	4	26	282
296	706	250	430	380	480	170	531	440	530	30	35	90	4	26	310
2104	731	265	485	395	480	210	575	475	580	40	40	110	4	26	354
2106	780	265	485	395	480	210	575	475	580	40	40	110	4	26	376

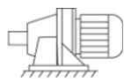
Model	Output shaft dimension									Input shaft dimension						
	d1	L1	L1'	b1	h1	t1	u1	s1	m1	d2	L2	L2'	b2	h2	t2	u2
MSHS-243	50	70	65	14	9	5.5	3.5	M10	20	18	35	30	6	6	3.5	2.5
MSHS-253	50	90	80	14	9	5.5	3.5	M10	20	18	35	30	6	6	3.5	2.5
MSHS-263	60	90	80	18	11	7	4	M10	20	18	35	30	6	6	3.5	2.5
MSHS-273	70	90	85	20	12	7.5	4.5	M12	25	18	35	30	6	6	3.5	2.5
MSHS-274	70	90	85	20	12	7.5	4.5	M12	25	22	40	35	6	6	3.5	2.5
MSHS-284	80	110	100	22	14	9	5	M12	25	22	40	35	6	6	3.5	2.5
MSHS-293	95	135	130	25	14	9	5	M20	35	18	35	30	6	6	3.5	2.5
MSHS-294	95	135	130	25	14	9	5	M20	35	22	40	35	6	6	3.5	2.5
MSHS-296	95	135	130	25	14	9	5	M20	35	30	64	40	8	7	4	3
MSHS-2104	110	165	160	28	16	10	6	M20	35	22	40	35	6	6	3.5	2.5
MSHS-2106	110	165	160	28	16	10	6	M20	35	30	64	40	8	7	4	3

Note 1) Applied h6 allowance level for output shaft and input shaft dimension.

2) Applied parallel key (KS B 1311-84) dimension.

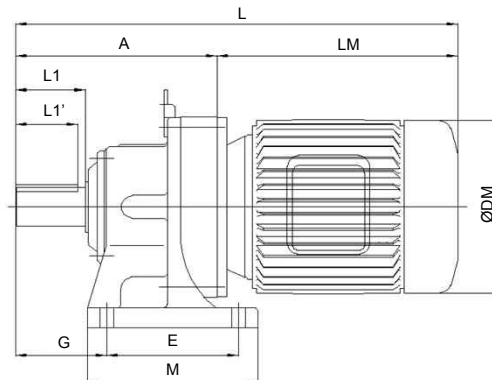
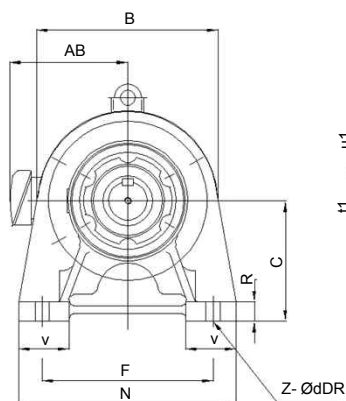
3) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMH-Single reduction type

MMH ☐ -102~103



Frame	A	B	C	E	F	G	M	N	R	V	Z	d	Output shaft						
													d1	L1	L1'	b1	h1	t1	u1
102	156	162	105	120	140	58	160	185	17	45	4	13	28	35	30	8	7	4	3
103	189	208	135	150	195	80	190	245	18	60	4	14	38	55	50	10	8	5	3

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMH02-102	0.2	4	361	205	148	124	22	461	305	148	124	25
MMH05-102	0.4	4	395	239	174	162	30	495	339	174	162	34
MMH 1-102	0.75	4	395	239	174	162	30	495	339	174	162	34
MMH05-103	0.4	4	432	243	174	162	39	532	343	174	162	43
MMH 1-103	0.75	4	432	243	174	162	39	532	343	174	162	43
MMH 2-103	1.5	4	477	288	199	178	48	577	388	199	178	53
MMH 3-103	2.2	4	481	292	220	199	56	581	392	220	199	61

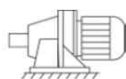
Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

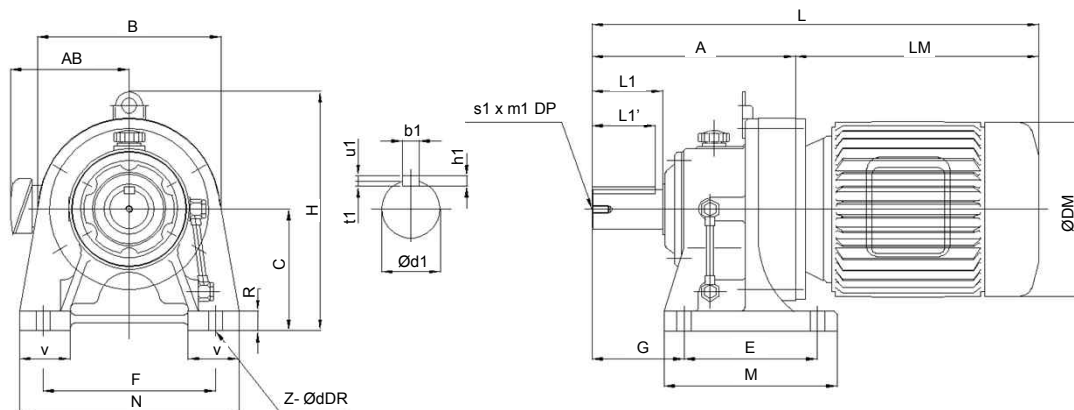
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMH-Single reduction type

MMH □ -104~107

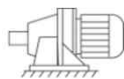


Frame	A	B	C	H	E	F	G	M	N	R	V	Z	d	Output shaft									
														d1	L1	L1'	b1	h1	t1	u1	s1	m1	
104	239	232	155	305	170	220	97	220	280	25	65	4	18	50	70	65	14	9	5.5	3.5	M10	20	
105	259	232	155	305	170	220	117	220	280	25	65	4	18	50	90	80	14	9	5.5	3.5	M10	20	
106	308	307	165	359	200	280	137	270	355	25	80	4	18	60	90	80	18	11	7	4	M10	20	
107	352	340	210	429	300	310	132	360	390	35	90	4	22	70	90	85	20	12	7.5	4.5	M12	25	

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMH 1-104	0.75	4	479	240	174	162	56	579	340	174	162	60
MMH 2-104	1.5	4	521	282	199	178	65	621	382	199	178	70
MMH 3-104	2.2	4	537	298	220	199	73	637	398	220	199	81
MMH 5-104	3.7	4	549	310	244	216	82	679	440	244	216	91
MMH 8-104	5.5	4	599	360	284	236	102	729	490	284	236	113
MMH 2-105	1.5	4	541	282	199	178	66	641	382	199	178	71
MMH 3-105	2.2	4	557	298	220	199	74	657	398	220	199	82
MMH 5-105	3.7	4	569	310	244	216	83	699	440	244	216	92
MMH 3-106	2.2	4	600	292	220	199	115	700	392	220	199	123
MMH 5-106	3.7	4	612	304	244	216	124	742	434	244	216	133
MMH 8-106	5.5	4	663	355	284	236	140	793	485	284	236	151
MMH10-106	7.5	4	695	387	284	236	150	825	517	284	236	161
MMH15-106	11	4	761	453	337	301	201	891	583	337	301	216
MMH 5-107	3.7	4	665	313	244	216	155	795	443	244	216	164
MMH 8-107	5.5	4	714	362	284	236	175	844	492	284	236	186
MMH10-107	7.5	4	746	394	284	236	188	876	524	284	236	199
MMH15-107	11	4	813	461	337	301	222	973	621	337	301	237
MMH20-107	15	4	851	499	337	301	245	1011	659	337	301	260

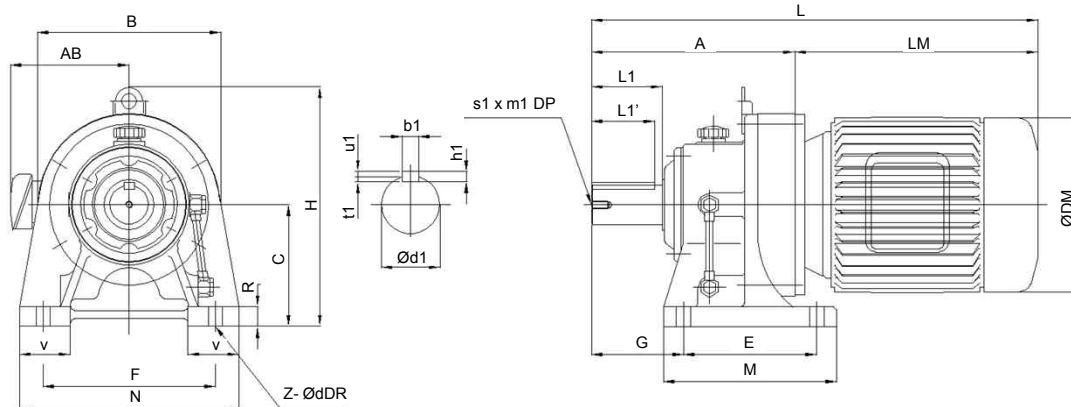
- Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.
2) Applied h6 allowance level for output shaft and input shaft dimension.
3) Applied parallel key (KS B 1311-84) dimension.
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMH-Single reduction type

MMH □ -108~109



Frame	A	B	C	H	E	F	G	M	N	R	V	Z	d	Output shaft								
														d1	L1	L1'	b1	h1	t1	u1	s1	m1
108	389	370	230	463	340	340	154	400	435	35	100	4	22	80	110	100	22	14	9	5	M12	25
109	465	430	270	553	370	450	167	440	530	100	50	4	26	95	135	130	25	14	9	5	M20	35

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMH 8-108	5.5	4	753	364	284	236	207	883	494	284	236	218
MMH10-108	7.5	4	785	396	284	236	222	915	526	284	236	233
MMH15-108	11	4	852	463	337	301	260	1012	623	337	301	275
MMH20-108	15	4	890	501	337	301	280	1050	661	337	301	295
MMH30-108	22	4	934	545	374	325	335	1094	705	374	325	356
MMH10-109	7.5	4	858	393	284	236	308	988	523	284	236	319
MMH15-109	11	4	931	466	337	301	345	1091	626	337	301	360
MMH20-109	15	4	967	502	337	301	363	1127	662	337	301	378
MMH30-109	22	4	1029	567	374	325	420	1127	662	374	325	441
MMH40-109	30	4	1075	610	374	316	475	1235	770	374	316	523

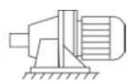
Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

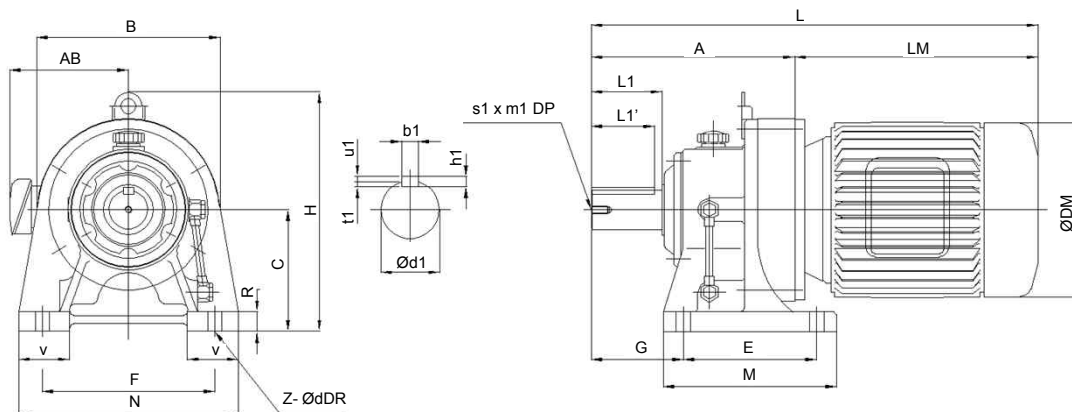
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMH-Single reduction type

MMH □ -110~122



Frame	A	B	C	H	E	F	G	M	N	R	V	Z	d	Output shaft								
														d1	L1	L1'	b1	h1	t1	u1	s1	m1
110	570	505	290	614	480	500	210	570	620	125	45	4	26	110	170	165	28	16	10	6	M20	35
122	570	505	290	614	480	500	210	570	620	125	45	4	26	120	170	165	32	18	11	7	M20	35

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMH15-110	11	4	1034	464	337	301	485	1194	624	337	301	500
MMH20-110	15	4	1072	502	337	301	502	11232	662	337	301	517
MMH30-110	22	4	1116	546	374	325	527	1276	706	374	325	548
MMH40-110	30	4	1162	592	374	316	620	1322	752	374	316	668
MMH50-110	37	4	1208	638	404	364	660	1368	798	404	364	715
MMH15-122	11	6	1078	508	337	301	493	1238	668	337	301	508
MMH20-122	15	6	1091	521	374	325	510	1251	681	374	325	525
MMH30-122	22	6	1175	605	374	316	535	1335	765	374	316	556
MMH40-122	30	6	1236	666	404	364	628	1396	826	404	364	676
MMH50-122	37	6	1236	666	404	364	668	1396	826	404	364	723

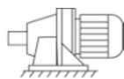
Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

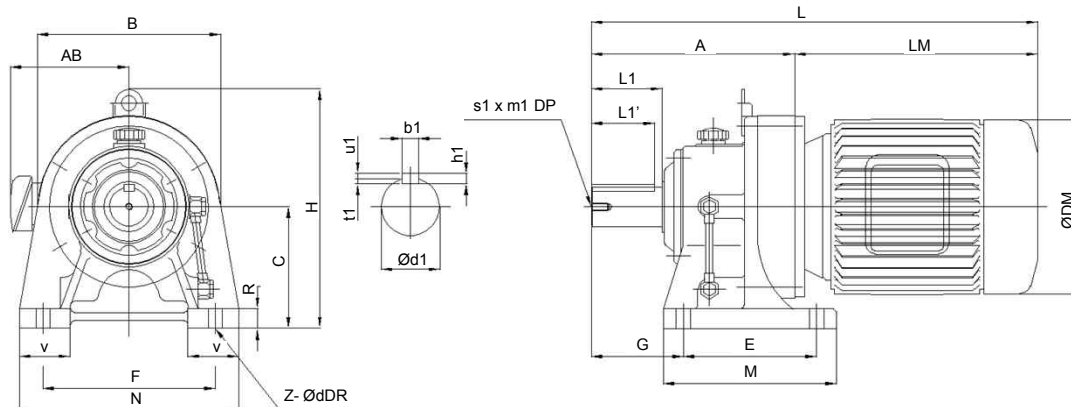
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMH-Single reduction type

MMH ☐ -111~124



Frame	A	B	C	H	E	F	G	M	N	R	V	Z	d	Output shaft								
														d1	L1	L1'	b1	h1	t1	u1	s1	m1
111	656	575	325	703	500	630	291	600	690	45	125	6	26	120	210	200	32	18	11	7	M24	45
124	656	575	325	703	500	630	291	600	690	45	125	6	26	140	210	200	36	20	12	8	M24	45

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMH20-111	15	6	1199	543	374	325	627	1359	703	374	325	648
MMH30-111	22	6	1246	590	374	316	733	1406	750	374	316	781
MMH40-111	30	6	1241	585	404	364	839	1401	745	404	364	887
MMH50-111	37	6	1241	585	404	364	883	1401	745	404	364	931
MMH60-111	45	6	1406	750	457	390	989	1566	910	457	390	1047
MMH75-111	55	6	1446	790	512	450	1036	1606	950	512	450	1094
MMH20-124	15	6	1199	543	374	325	655	1359	703	374	325	676
MMH30-124	22	6	1246	590	374	316	761	1406	750	374	316	781
MMH40-124	30	6	1241	585	404	364	867	1401	745	404	364	887
MMH50-124	37	6	1241	585	404	364	911	1401	745	404	364	931
MMH60-124	45	6	1406	750	457	390	1017	1566	910	457	390	1047
MMH75-124	55	6	1446	790	512	450	1064	1606	950	512	450	1094

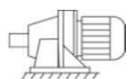
Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

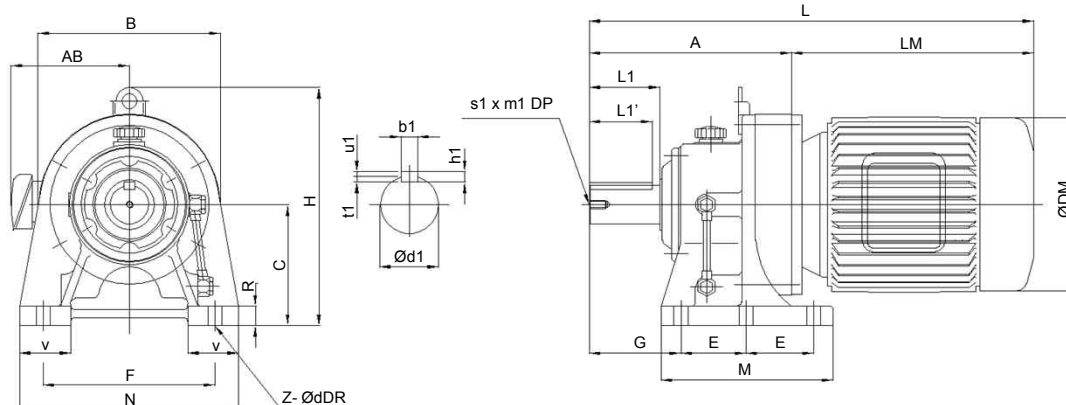
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMH-Single reduction type

MMH □ -112~125



Frame	A	B	C	H	E	F	G	M	N	R	V	Z	d	Output shaft								
														d1	L1	L1'	b1	h1	t1	u1	s1	m1
112	853	720	420	890	330	800	372	810	880	50	143	6	39	140	250	240	36	20	12	8	M30	52
125	853	720	420	890	330	800	372	810	880	50	143	6	39	160	250	240	40	22	13	9	M30	52

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMH30-112	22	6	1406	553	374	316	1290	1566	713	374	316	1338
MMH40-112	30	6	1493	640	404	364	1368	1653	800	404	364	1416
MMH50-112	37	6	1493	640	404	364	1421	1653	800	404	364	1460
MMH60-112	45	6	1638	785	457	390	1581	1798	945	457	390	1639
MMH75-112	55	6	1660	807	512	450	1617	1820	967	512	450	1675
MMH40-125	30	6	1493	640	404	364	1426	1653	800	404	364	1446
MMH50-125	37	6	1493	640	404	364	1470	1653	800	404	364	1490
MMH60-125	45	6	1638	785	457	390	1639	1798	945	457	390	1669
MMH75-125	55	6	1660	807	512	450	1675	1820	967	512	450	1705

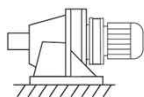
Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

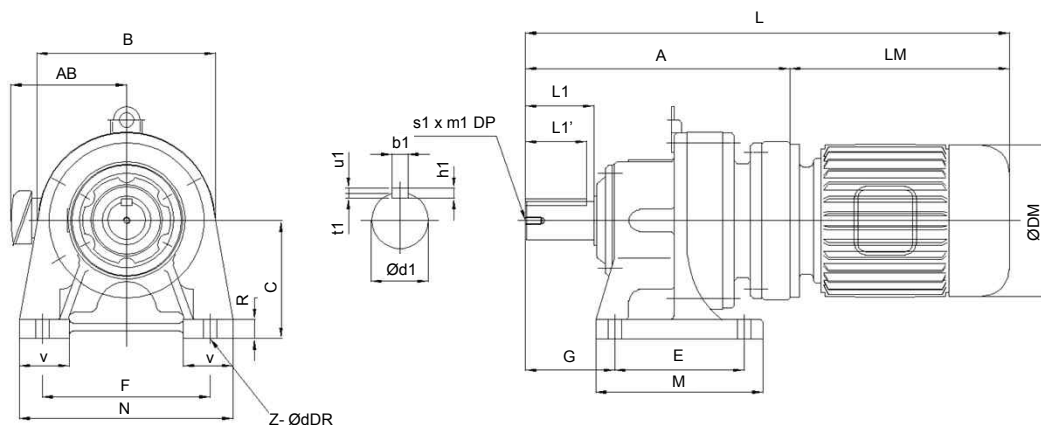
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMH-Double reduction type

MMH □ -232~282



Frame	A	B	C	E	F	G	M	N	R	V	Z	d	Output shaft								
													d1	L1	L1'	b1	h1	t1	u1	s1	m1
232	265	208	135	150	195	80	190	245	18	60	4	14	38	55	50	10	8	5	3	-	-
242	317	232	155	170	220	97	220	280	25	65	4	18	50	70	65	14	9	5.5	3.5	M10	20
252	337	232	155	170	220	117	220	280	25	65	4	18	50	90	80	14	9	5.5	3.5	M10	20
262	386	307	165	200	280	137	270	355	25	80	4	18	60	90	80	18	11	7	4	M10	20
272	438	340	210	300	310	132	360	390	35	90	4	22	70	90	85	20	12	7.5	4.5	M12	25
282	474	370	230	340	340	154	400	435	35	100	4	22	80	110	100	22	14	9	5	M12	25

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMH02-232	0.2	4	480	205	148	124	48	580	305	148	124	51
MMH05-232	0.4	4	504	239	174	162	56	604	339	174	162	60
MMH 1-232	0.75	4	504	239	174	162	56	604	339	174	162	60
MMH05-242	0.4	4	555	239	174	162	70	656	339	174	162	68
MMH 1-242	0.75	4	556	239	174	162	70	656	339	174	162	74
MMH05-252	0.4	4	576	239	174	162	71	676	339	174	162	75
MMH 1-252	0.75	4	576	239	174	162	71	676	339	174	162	75
MMH05-262	0.4	4	625	239	174	162	107	725	339	174	162	111
MMH 1-262	0.75	4	625	239	174	162	107	725	339	174	162	111
MMH05-272	0.4	4	677	239	174	162	141	777	339	174	162	145
MMH 1-272	0.75	4	677	239	174	162	141	777	339	174	162	145
MMH05-282	0.4	4	713	239	174	162	183	813	339	174	162	188
MMH 1-282	0.75	4	713	239	174	162	183	813	339	174	162	188

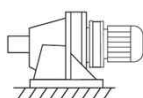
Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

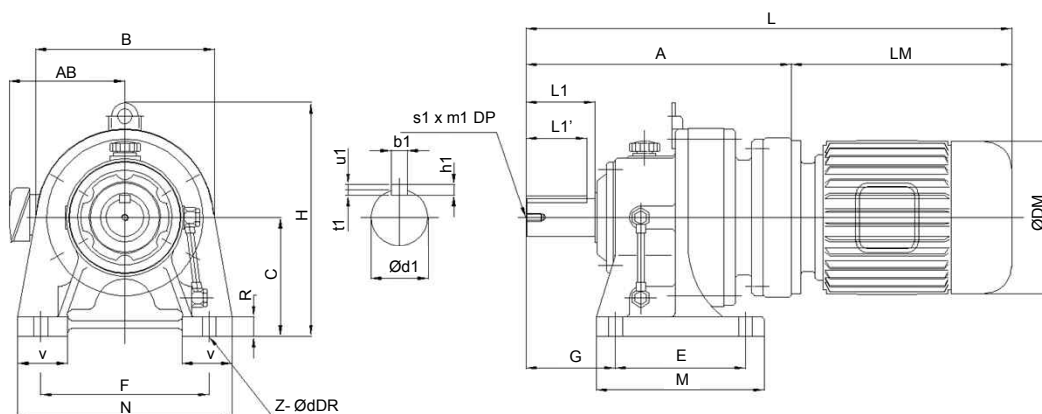
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMH-Double reduction type

MMH □ -243~263



Frame	A	B	C	H	E	F	G	M	N	R	V	Z	d	Output shaft									
														d1	L1	L1'	b1	h1	t1	u1	s1	m1	
243	327	232	155	305	170	220	97	220	280	25	65	4	18	50	70	65	14	9	5.5	3.5	M10	20	
253	327	232	155	305	170	220	97	220	280	25	65	4	18	50	90	80	14	9	5.5	3.5	M10	20	
263	392	307	165	359	200	280	137	270	355	25	80	4	18	60	90	80	18	11	7	4	M10	20	

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMH05-243	0.4	4	570	243	174	162	80	670	343	174	162	84
MMH 1-243	0.75	4	570	243	174	162	80	670	343	174	162	84
MMH 2-243	1	4	615	288	199	178	89	715	388	199	178	94
MMH05-253	0.4	4	590	243	174	162	81	690	343	174	162	85
MMH 1-253	0.75	4	590	243	174	162	81	690	343	174	162	85
MMH 2-253	1.5	4	635	288	174	178	90	735	388	174	178	95
MMH05-263	0.4	4	635	243	174	162	112	735	343	174	162	116
MMH 1-263	0.75	4	635	243	174	162	112	735	343	174	162	116
MMH 2-263	1.5	4	680	288	199	178	118	780	388	199	178	123
MMH 3-263	2.2	4	684	292	220	199	131	784	392	220	199	139

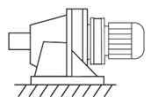
Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

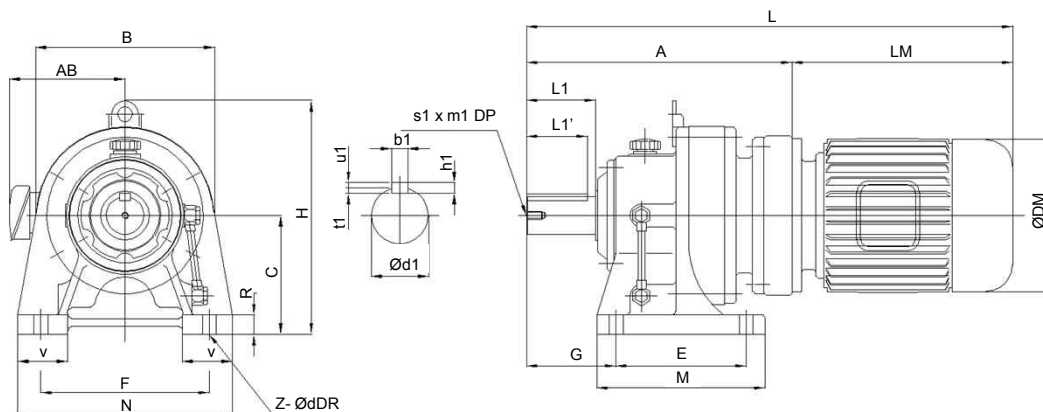
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMH-Double reduction type

MMH □ -273~284



Frame	A	B	C	H	E	F	G	M	N	R	V	Z	d	Output shaft								
														d1	L1	L1'	b1	h1	t1	u1	s1	m1
273	439	340	210	429	300	310	132	360	390	35	90	4	22	70	90	85	20	12	7.5	4.5	M12	25
274	454	340	210	429	300	310	132	360	390	35	90	4	22	70	90	85	20	12	7.5	4.5	M12	25
284	496	370	230	463	340	340	154	400	435	35	100	4	22	80	110	100	22	14	9	5	M12	25

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMH 1-273	0.75	4	682	243	174	162	145	782	343	174	162	149
MMH 2-273	1.5	4	727	288	199	178	161	827	388	199	178	166
MMH 3-273	2.2	4	731	292	220	199	166	831	392	220	199	174
MMH 5-274	3.7	4	764	310	244	216	184	894	440	244	216	193
MMH 2-284	1.5	4	778	282	199	178	204	878	382	199	178	209
MMH 3-284	2.2	4	794	298	220	199	210	894	398	220	199	218
MMH 5-284	3.7	4	806	310	244	216	222	936	440	244	216	231
MMH 8-284	5.5	4	856	360	284	236	241	986	490	284	236	252

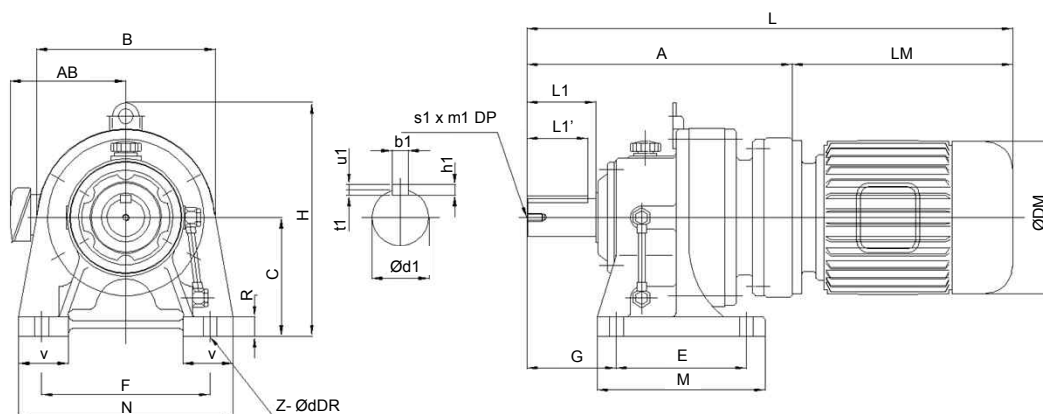
Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

4) Dimensions can be changed without notice.

About Us

MMH ☐ -293~296

Frame	A	B	C	H	E	F	G	M	N	R	V	Z	d	Output shaft									
														d1	L1	L1'	b1	h1	t1	u1	s1	m1	
293	559	430	270	553	370	450	167	440	530	50	100	4	26	95	135	130	25	14	9	5	M20	35	
294	572	430	270	553	370	450	167	440	530	50	100	4	26	95	135	130	25	14	9	5	M20	35	
296	601	430	270	553	370	450	167	440	530	50	100	4	26	95	135	130	25	14	9	5	M20	35	

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMH 1-293	0.75	4	802	243	174	162	275	902	343	174	162	279
MMH 2-293	1.5	4	847	288	199	178	283	947	388	199	178	285
MMH 3-293	2.2	4	851	292	220	199	291	951	392	220	199	299
MMH 3-294	2.2	4	870	298	220	199	295	970	398	220	199	303
MMH 5-294	3.7	4	882	310	244	216	302	1012	440	244	216	311
MMH 8-294	5.5	4	932	360	284	236	319	1062	490	284	236	330
MMH10-296	7.5	4	988	387	284	236	347	1118	517	284	236	358

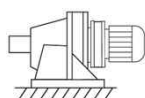
Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

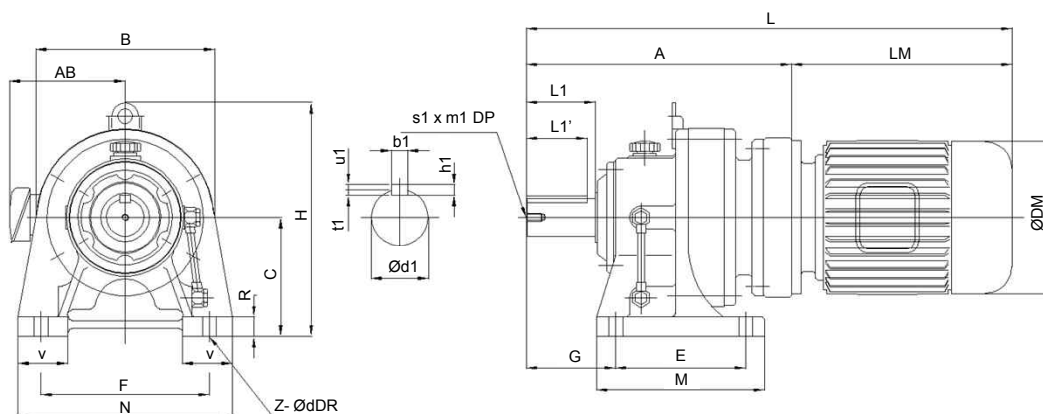
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMH-Double reduction type

MMH □ -2104~2226



Frame	A	B	C	H	E	F	G	M	N	R	V	Z	d	Output shaft								
														d1	L1	L1'	b1	h1	t1	u1	s1	m1
2104	682	505	290	614	480	500	210	570	620	45	125	4	26	110	170	165	28	16	10	6	M20	35
2106	705	505	290	614	480	500	210	570	620	45	125	4	26	110	170	165	28	16	10	6	M20	35
2224	682	505	290	614	480	500	210	570	620	45	125	4	26	120	170	165	32	18	11	7	M20	35
2226	705	505	290	614	480	500	210	570	620	45	125	4	26	120	170	165	32	18	11	7	M20	35

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMH 2-2104	1.5	4	964	282	199	178	420	1064	382	199	178	425
MMH 3-2104	2.2	4	980	298	220	199	428	1080	398	220	199	436
MMH 5-2104	3.7	4	992	310	244	216	435	1122	440	244	216	444
MMH 8-2104	5.5	4	1042	360	284	236	453	1172	490	284	236	464
MMH 8-2106	5.5	4	1060	355	284	236	460	1190	485	284	236	471
MMH10-2106	7.5	4	1092	387	284	236	475	1222	517	284	236	486
MMH15-2106	11	4	1158	453	337	301	511	1318	613	337	301	526
MMH 2-2224	1.5	4	964	282	199	178	425	1064	382	199	178	430
MMH 3-2224	2.2	4	980	298	220	199	432	1080	398	220	199	441
MMH 5-2224	3.7	4	992	310	244	216	440	1122	440	244	216	449
MMH 8-2224	5.5	4	1042	360	284	236	458	1172	490	284	236	470
MMH 8-2226	5.5	4	1060	355	284	236	465	1190	485	284	236	476
MMH10-2226	7.5	4	1092	387	284	236	480	1222	517	284	236	491
MMH15-2226	11	4	1158	453	337	301	516	1318	613	337	301	531

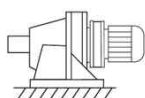
Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

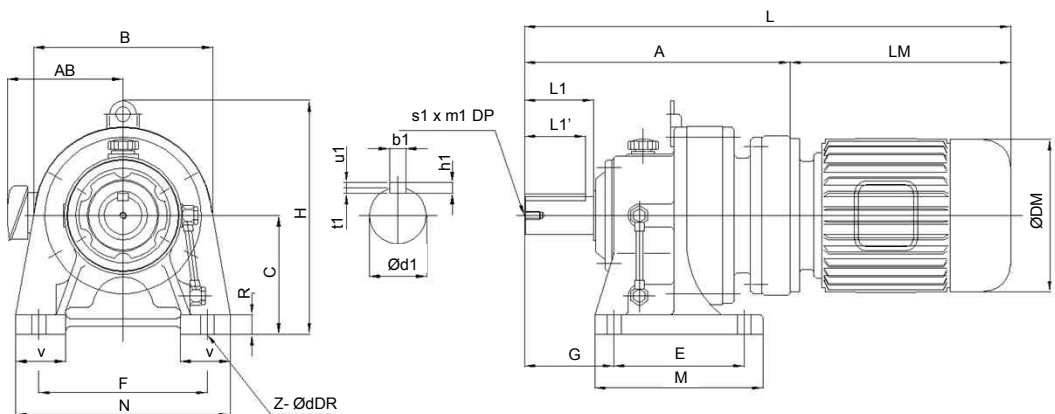
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMH-Double reduction type

MMH ☐ -2116~2247

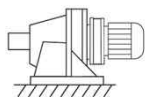


Frame	A	B	C	H	E	F	G	M	N	R	V	Z	d	Output shaft								
														d1	L1	L1'	b1	h1	t1	u1	s1	m1
2116	788	575	325	703	500	630	291	600	690	45	125	4	26	120	210	200	32	18	11	7	M24	45
2117	802	575	325	703	500	630	291	600	690	45	125	4	26	120	210	200	32	18	11	7	M24	45
2246	788	575	325	703	500	630	291	600	690	45	125	4	26	140	210	200	36	20	12	8	M24	45
2247	802	575	325	703	500	630	291	600	690	45	125	4	26	140	210	200	36	20	12	8	M24	45

Model	Motor		Motor mounting						Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)		L	LM	DM	AB	weight(KG)
MMH 3-2116	2.2	4	1080	292	220	199	596		1180	392	220	199	604
MMH 5-2116	3.7	4	1092	304	244	216	603		1222	434	244	216	612
MMH 8-2116	5.5	4	1143	355	284	236	621		1273	485	284	236	632
MMH10-2116	7.5	4	1175	387	284	236	634		1305	517	284	236	645
MMH10-2117	7.5	4	1196	394	284	236	614		1326	524	284	236	625
MMH15-2117	11	4	1263	461	337	301	653		1423	601	337	301	668
MMH20-2117	15	4	1301	499	337	301	680		1461	659	337	301	695
MMH 5-2246	3.7	4	1092	304	244	216	613		1222	434	244	216	622
MMH 8-2246	5.5	4	1143	355	284	236	631		1273	485	284	236	642
MMH10-2246	7.5	4	1175	387	284	236	644		1305	517	284	236	655
MMH20-2247	15	4	1301	499	337	301	690		1461	659	337	301	705

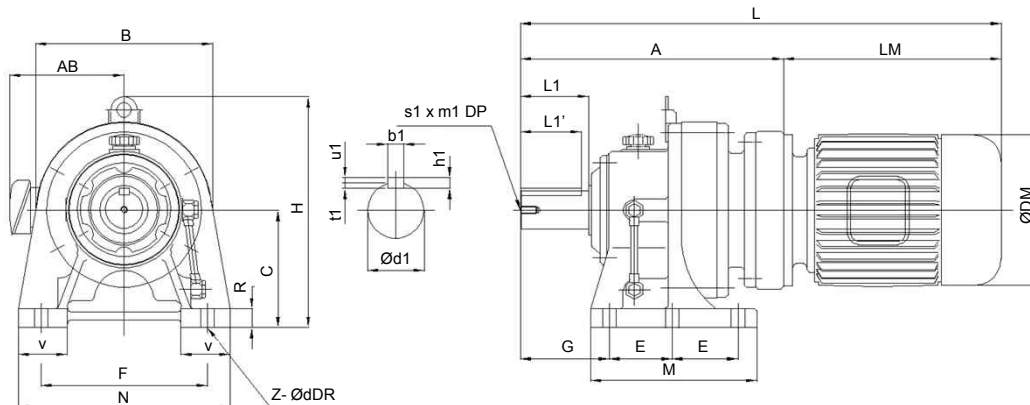
- Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.
2) Applied h6 allowance level for output shaft and input shaft dimension.
3) Applied parallel key (KS B 1311-84) dimension.
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMH-Double reduction type

MMH □ -2128~2258



Frame	A	B	C	H	E	F	G	M	N	R	V	Z	d	Output shaft								
														d1	L1	L1'	b1	h1	t1	u1	s1	m1
2128	1020	720	420	890	330	800	372	810	880	50	143	6	39	140	250	245	36	20	12	8	M30	52
2258	1020	720	420	890	330	800	372	810	880	50	143	6	39	160	250	245	40	22	13	9	M30	52

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMH 8-2128	5.5	4	1384	364	284	236	1200	1514	494	284	236	1211
MMH10-2128	7.5	4	1416	396	284	236	1213	1546	526	284	236	1224
MMH15-2128	11	4	1483	463	337	301	1244	1643	623	337	301	1284
MMH20-2128	15	4	1521	501	337	301	1269	1681	661	337	301	1284
MMH30-2128	22	4	1565	545	374	325	1331	1725	705	374	325	1352
MMH10-2258	7.5	4	1416	396	284	236	1228	1546	526	284	236	1239
MMH15-2258	11	4	1483	463	337	301	1259	1643	623	337	301	1299
MMH20-2258	15	4	1521	501	337	301	1284	1681	661	337	301	1299
MMH30-2258	22	4	1565	545	374	325	1346	1725	705	374	325	1367

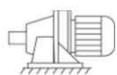
Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

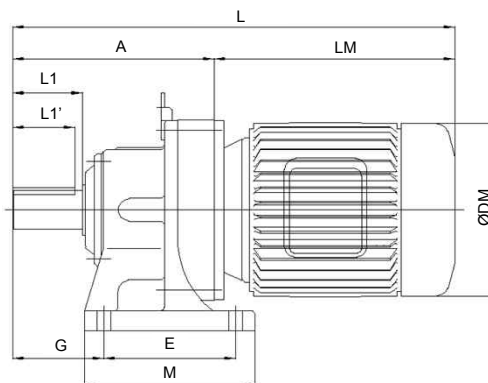
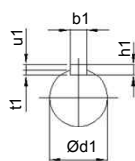
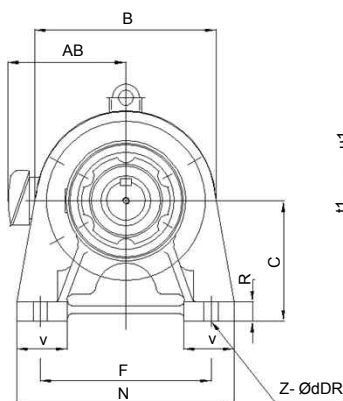
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMHS-Single reduction type

MMHS □ -102~103



Frame	A	B	C	E	F	G	M	N	R	V	Z	d	Output shaft								
													d1	L1	L1'	b1	h1	t1	u1	s1	m1
102	156	162	100	90	150	60	135	180	12	40	4	13	28	35	30	8	7	4	3	-	-
103	189	208	120	115	190	82	155	230	15	55	4	14	38	55	50	10	8	5	3	-	-

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMHS02-102	0.2	4	361	205	148	124	22	461	305	148	124	25
MMHS05-102	0.4	4	395	239	174	162	30	495	339	174	162	34
MMHS 1-102	0.75	4	395	239	174	162	30	495	339	174	162	34
MMHS05-103	0.4	4	432	243	174	162	39	532	343	174	162	43
MMHS 1-103	0.75	4	432	243	174	162	39	532	343	174	162	43
MMHS 2-103	1.5	4	477	288	199	178	48	577	388	199	178	53
MMHS 3-103	2.2	4	481	292	220	199	56	581	392	220	199	61

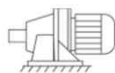
Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

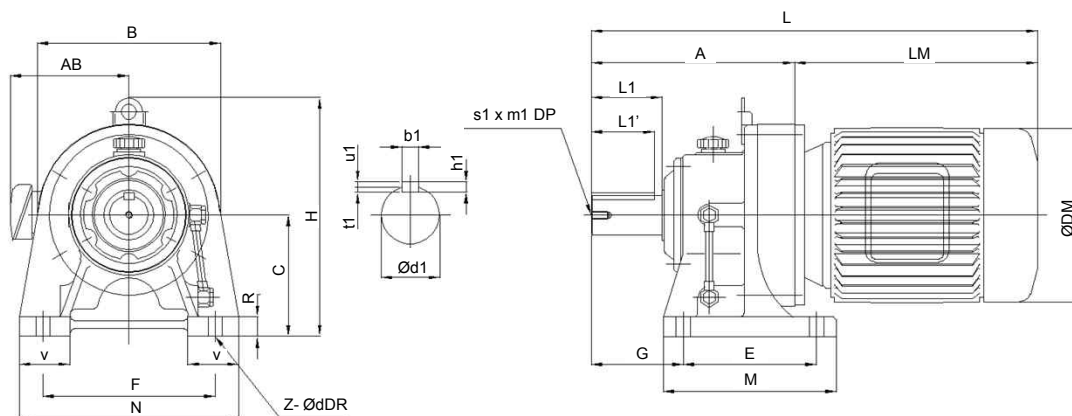
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMHS-Single reduction type

MMHS □ -104~106



Frame	A	B	C	H	E	F	G	M	N	R	V	Z	d	Output shaft								
														d1	L1	L1'	b1	h1	t1	u1	s1	m1
104	240	232	150	300	145	290	100	195	330	22	65	4	18	50	70	65	14	9	5.5	3.5	M10	20
105	260	232	150	300	145	290	120	195	330	22	65	4	18	50	90	80	14	9	5.5	3.5	M10	20
106	308	307	160	349	150	370	139	238	410	25	75	4	18	60	90	80	18	11	7	4	M10	20

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMHS1-104	0.75	4	479	240	174	162	56	579	340	174	162	60
MMHS2-104	1.5	4	521	282	199	178	65	621	382	199	178	70
MMHS3-104	2.2	4	537	298	220	199	73	637	398	220	199	81
MMHS5-104	3.7	4	549	310	244	216	82	679	440	244	216	91
MMHS8-104	5.5	4	599	360	284	236	102	729	490	284	236	113
MMHS2-105	1.5	4	541	282	199	178	66	641	382	199	178	71
MMHS3-105	2.2	4	557	298	220	199	74	657	398	220	199	82
MMHS5-105	3.7	4	569	310	244	216	83	699	440	244	216	92
MMHS3-106	2.2	4	600	292	220	199	115	700	392	220	199	123
MMHS5-106	3.7	4	612	304	244	216	124	742	434	244	216	133
MMHS8-106	5.5	4	663	355	284	236	140	793	485	284	236	151
MMHS10-106	7.5	4	695	387	284	236	150	825	517	284	236	161
MMHS15-106	11	4	761	453	337	301	201	891	583	337	301	216

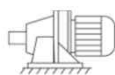
Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

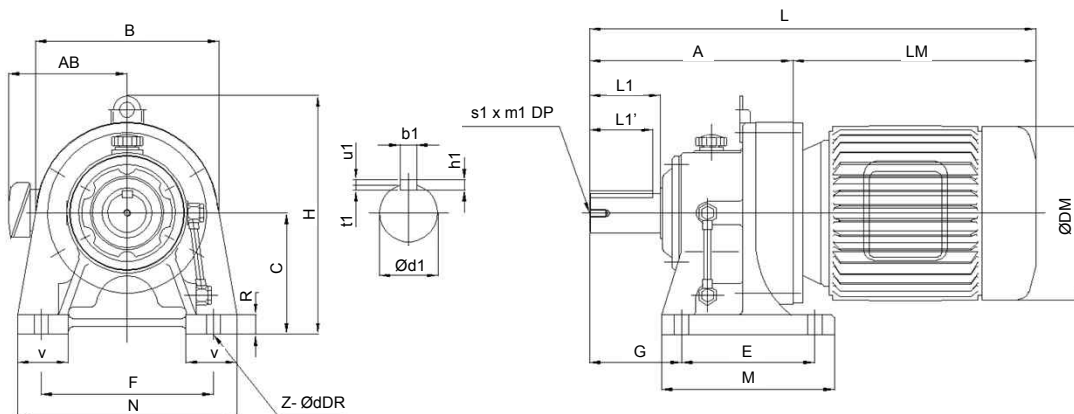
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMHS-Single reduction type

MMHS □ -107~110



Frame	A	B	C	H	E	F	G	M	N	R	V	Z	d	Output shaft								
														d1	L1	L1'	b1	h1	t1	u1	s1	m1
107	352	340	200	416	275	380	125	335	430	30	80	4	22	70	90	85	20	12	7.5	4.5	M12	25
108	389	370	220	451	320	420	145	380	470	30	85	4	22	80	110	100	22	14	9	5	M12	25
109	465	430	250	531	380	480	170	440	530	35	90	4	26	95	135	130	25	14	9	5	M20	35
110	526	485	265	575	395	480	210	475	580	40	110	4	26	110	165	160	28	16	10	6	M20	35

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMHS 5-107	3.7	4	665	313	244	216	155	795	443	244	216	164
MMHS 8-107	5.5	4	714	362	284	236	175	844	492	284	236	186
MMHS10-107	7.5	4	746	394	284	236	188	876	524	284	236	199
MMHS15-107	11	4	813	461	337	301	222	973	621	337	301	237
MMHS20-107	15	4	851	499	337	301	245	1011	659	337	301	260
MMHS 8-108	5.5	4	753	364	284	236	207	883	494	284	236	218
MMHS10-108	7.5	4	785	396	284	236	222	915	526	284	236	233
MMHS15-108	11	4	852	463	337	301	260	1012	623	337	301	275
MMHS20-108	15	4	890	501	337	301	280	1050	661	337	301	295
MMHS30-108	22	4	934	545	374	325	335	1094	705	374	325	356
MMHS10-109	7.5	4	858	393	284	236	308	88	523	284	236	319
MMHS15-109	11	4	931	466	337	301	345	1091	626	337	301	360
MMHS20-109	15	4	967	502	337	301	363	1127	662	337	301	378
MMHS30-109	22	4	1029	564	374	325	420	1187	724	374	325	441
MMHS40-109	30	4	1075	610	374	316	475	1235	770	374	316	523
MMHS15-110	11	4	990	464	337	280	485	1150	624	337	280	500
MMHS20-110	15	4	1028	502	337	280	502	1188	662	337	280	517
MMHS30-110	22	4	1072	546	374	288	527	1232	706	374	288	548
MMHS40-110	30	4	1118	592	374	280	620	1278	752	374	288	668

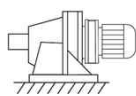
Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

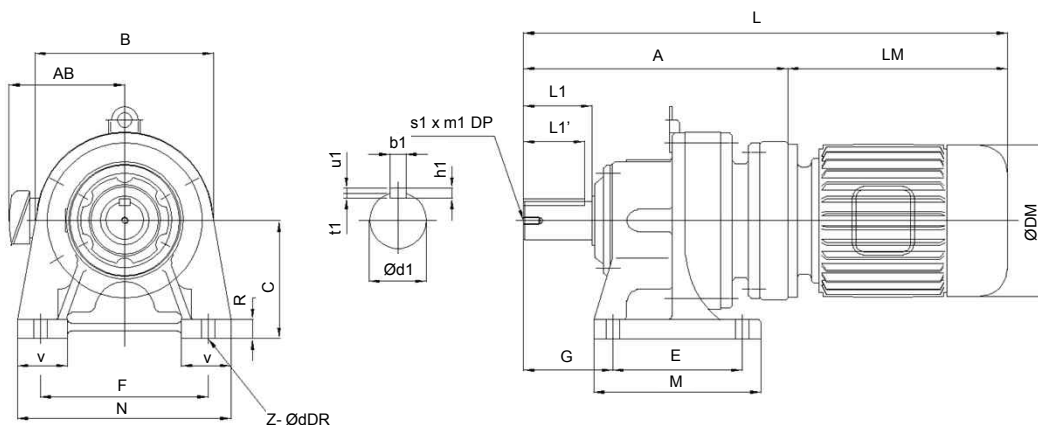
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMHS-Double reduction type

MMHS □ -232~282



Frame	A	B	C	H	E	F	G	M	N	R	V	Z	d	Output shaft								
														d1	L1	L1'	b1	h1	t1	u1	s1	m1
232	265	208	120	-	115	190	82	155	230	15	55	4	14	38	55	50	10	8	5	3	-	-
242	317	232	150	300	145	290	100	195	330	22	65	4	18	50	70	65	14	9	5.5	3.5	M10	20
252	337	232	150	300	145	290	120	195	330	22	65	4	18	50	90	80	14	9	5.5	3.5	M10	20
262	386	307	160	349	150	370	139	238	410	25	75	4	18	60	90	80	18	11	7	4	M10	20
272	438	340	200	416	275	380	125	335	430	30	80	4	22	70	90	85	20	12	7.5	4.5	M12	25
282	474	370	220	451	320	420	145	380	470	30	85	4	22	80	110	100	22	14	9	5	M12	25

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMHS02-232	0.2	4	470	205	148	124	48	570	305	148	124	51
MMHS05-232	0.4	4	504	239	174	162	56	604	339	174	162	60
MMHS 1-232	0.75	4	504	239	174	162	56	604	339	174	162	60
MMHS05-242	0.4	4	556	239	174	162	70	656	339	174	162	74
MMHS 1-242	0.75	4	556	239	174	162	70	656	339	174	162	74
MMHS05-252	0.4	4	556	239	174	162	71	676	339	174	162	75
MMHS 1-252	0.75	4	576	239	174	162	71	676	339	174	162	75
MMHS05-262	0.4	4	625	239	174	162	107	725	339	174	162	111
MMHS 1-262	0.75	4	625	239	174	162	107	725	339	174	162	111
MMHS05-272	0.4	4	677	239	174	162	141	777	339	174	162	145
MMHS 1-272	0.75	4	677	239	174	162	141	777	339	174	162	145
MMHS05-282	0.4	4	713	239	174	162	183	813	339	174	162	188
MMHS 1-282	0.75	4	713	239	174	162	813	339	180	174	162	188

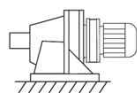
Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

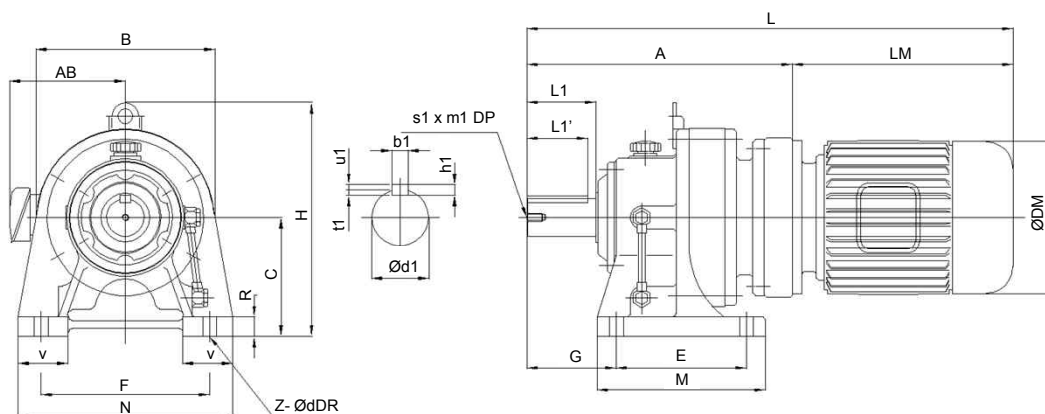
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMHS-Double reduction type

MMHS □ -243~284



Frame	A	B	C	H	E	F	G	M	N	R	V	Z	d	Output shaft									
														d1	L1	L1'	b1	h1	t1	u1	s1	m1	
243	327	232	150	300	145	290	100	195	330	22	65	4	18	50	70	65	14	9	5.5	3.5	M10	20	
253	347	232	150	300	145	290	120	195	330	22	65	4	18	50	90	80	14	9	5.5	3.5	M10	20	
263	392	307	160	349	150	370	139	238	410	25	75	4	18	60	90	80	18	11	7	4	M10	20	
273	439	340	200	416	275	380	125	335	430	30	80	4	22	70	90	85	20	12	7.5	4.5	M12	25	
274	454	340	200	416	275	380	125	335	430	30	80	4	22	70	90	85	20	12	7.5	4.5	M12	25	
284	496	370	220	451	320	420	145	380	470	30	85	4	22	80	110	100	22	14	9	5	M12	25	

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMHS05-243	0.4	4	570	243	174	162	80	670	343	174	162	84
MMHS 1-243	0.75	4	570	243	174	162	80	670	3343	174	162	84
MMHS 2-243	1.5	4	615	288	199	178	89	715	388	199	178	94
MMHS05-253	0.4	4	590	243	174	162	81	690	343	174	162	85
MMHS 1-253	0.75	4	590	243	174	162	81	690	343	174	162	85
MMHS 2-253	1.5	4	635	288	199	178	90	735	388	199	178	95
MMHS05-263	0.4	4	635	243	174	162	112	735	343	174	162	116
MMHS 1-263	0.75	4	635	243	174	162	112	735	343	174	162	116
MMHS 2-263	1.5	4	680	288	199	178	118	780	388	199	178	123
MMHS 3-263	2.2	4	684	292	220	199	131	784	392	220	199	139
MMHS 1-273	0.75	4	682	243	174	162	145	782	343	174	162	149
MMHS 2-273	1.5	4	727	288	199	178	161	827	388	199	178	166
MMHS 3-273	2.2	4	731	292	220	199	166	831	392	220	199	174
MMHS 5-274	3.7	4	764	310	244	216	184	894	440	244	216	193
MMHS 2-284	1.5	4	778	282	199	178	204	878	382	199	178	209
MMHS 3-284	2.2	4	794	298	220	199	210	894	398	220	199	218
MMHS 5-284	3.7	4	806	310	244	216	222	936	440	244	216	231
MMHS 8-284	5.5	4	856	360	284	236	241	986	490	284	236	252

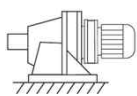
Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

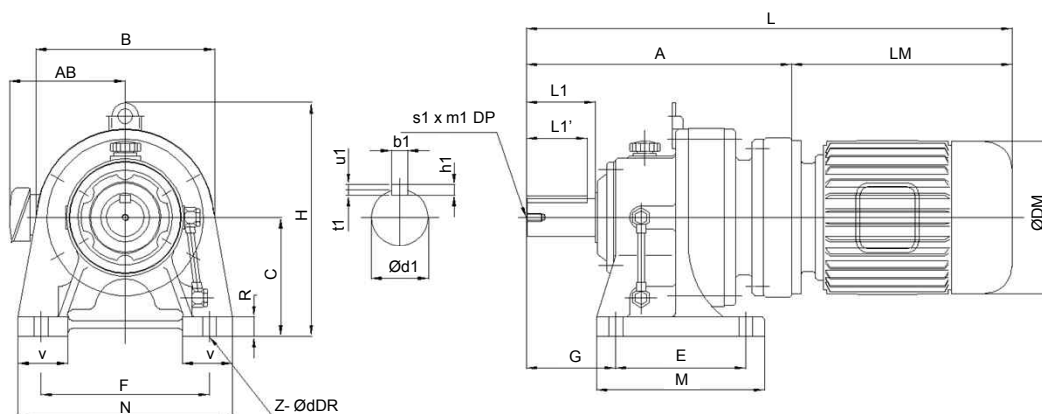
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMHS-Double reduction type

MMHS □ -293~2106



Frame	A	B	C	H	E	F	G	M	N	R	V	Z	d	Output shaft									
														d1	L1	L1'	b1	h1	t1	u1	s1	m1	
293	559	430	250	531	380	480	170	440	530	35	90	4	26	95	135	130	25	14	9	5	M20	35	
294	572	430	250	531	380	480	170	440	530	35	90	4	26	95	135	130	25	14	9	5	M20	35	
296	601	430	250	531	380	480	170	440	530	35	90	4	26	95	135	130	25	14	9	5	M20	35	
2104	650	485	265	575	395	480	210	475	580	40	110	4	26	110	165	160	28	16	10	6	M20	35	
2106	650	485	265	575	395	480	210	475	580	40	110	4	26	110	165	160	28	16	10	6	M20	35	

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMHS 1-293	0.75	4	802	243	174	162	275	902	343	174	162	279
MMHS 2-293	1.5	4	847	288	199	178	283	947	388	199	178	285
MMHS 3-293	2.2	4	851	292	220	199	291	951	392	220	199	299
MMHS 3-294	2.2	4	870	298	220	199	295	970	398	220	199	303
MMHS 5-294	3.7	4	882	310	244	216	302	1012	440	244	216	311
MMHS 8-294	5.5	4	932	360	284	236	319	1062	490	284	236	330
MMHS10-296	7.5	4	988	387	284	236	347	1118	517	284	236	358
MMHS 2-2104	1.5	4	932	282	199	178	420	1032	382	199	178	425
MMHS 3-2104	2.2	4	948	298	220	199	428	1048	398	220	199	436
MMHS 5-2104	3.7	4	960	310	244	216	435	1090	440	244	216	444
MMHS 8-2106	5.5	4	1030	355	284	236	460	1160	485	284	236	460
MMHS10-2106	7.5	4	1062	387	284	236	475	1192	517	284	236	475

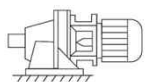
Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

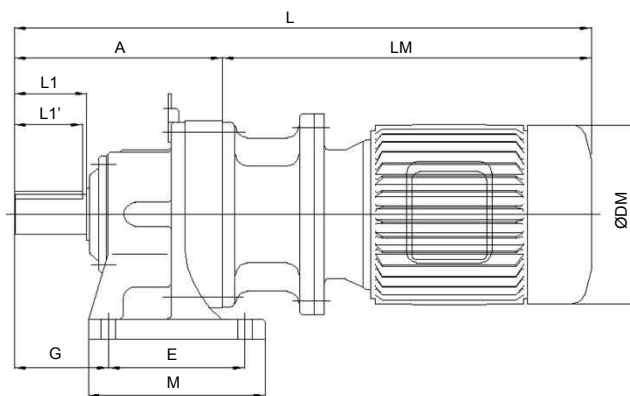
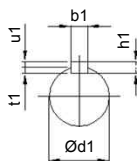
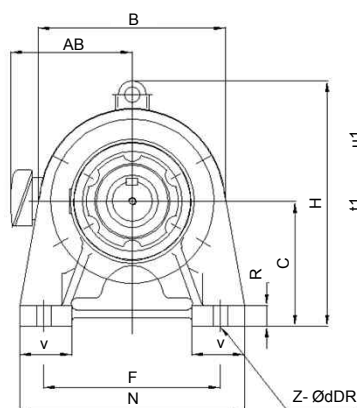
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMJH-Single reduction type

MMJH □ -102~103



Frame	A	B	C	E	F	G	M	N	R	V	Z	d	Output shaft						
													d1	L1	L1'	b1	h1	t1	u1
102	156	162	105	120	140	58	160	185	17	45	4	13	28	35	30	8	7	4	3
103	189	208	135	150	195	80	190	245	18	60	4	14	38	55	50	10	8	5	3

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMJH02-102	0.2a	4	465	309	146	124	26	565	409	148	124	29
MMJH05-102	0.4	4	496	340	174	162	33	596	440	174	162	37
MMJH 1-102	0.75	4	496	340	174	162	33	596	440	174	162	37
MMJH05-103	0.4	4	532	343	174	162	44	632	443	174	162	48
MMJH 1-103	0.75	4	532	343	174	162	44	632	443	174	162	48
MMJH 2-103	1.5	4	594	405	199	178	57	694	505	199	178	62
MMJH 3-103	2.2	4	639	450	220	199	69	739	550	220	199	77

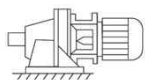
Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

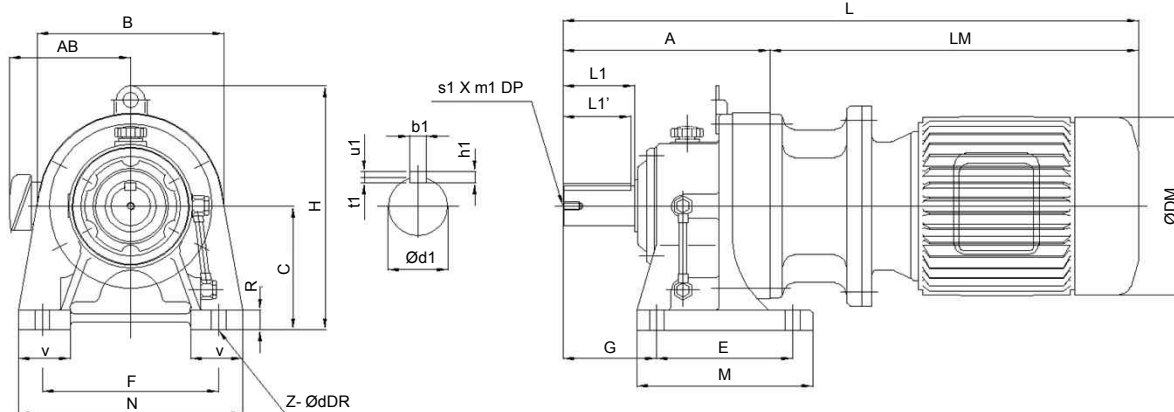
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMJH-Single reduction type

MMJH □ -104~106



Frame	A	B	C	H	E	F	G	M	N	R	V	Z	d	Output shaft								
														d1	L1	L1'	b1	h1	t1	u1	s1	m1
104	239	232	155	305	97	25	97	220	280	25	65	4	18	50	70	65	14	9	5.5	3.5	M10	20
105	259	232	155	305	97	25	117	220	280	25	65	4	18	50	90	80	14	9	5.5	3.5	M10	20
106	308	307	165	359	137	25	137	270	355	25	80	4	18	60	90	80	18	11	7	4	M10	20

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMJH 1-104	0.75	4	591	352	174	162	61	691	452	174	162	65
MMJH 2-104	1.5	4	653	414	199	178	74	753	514	199	178	79
MMJH 3-104	2.2	4	698	459	220	199	88	798	559	220	199	96
MMJH 5-104	3.7	4	683	444	244	216	96	813	574	244	216	105
MMJH 2-105	1.5	4	673	414	199	178	76	773	514	199	178	81
MMJH 3-105	2.2	4	718	459	220	199	90	818	559	220	199	98
MMJH 5-105	3.7	4	703	444	244	216	98	833	574	244	216	107
MMJH 3-106	2.2	4	765	457	220	178	125	865	557	220	178	133
MMJH 5-106	3.7	4	750	442	244	216	129	880	572	244	216	138
MMJH 8-106	5.5	4	819	511	284	236	162	949	641	284	236	173
MMJH10-106	7.5	4	857	549	284	236	171	987	679	284	236	182

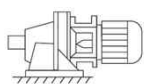
Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

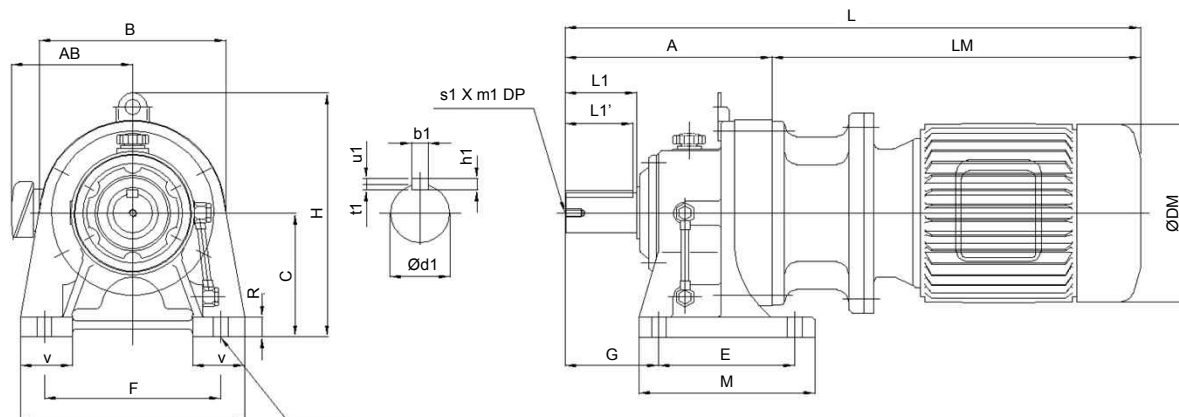
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMJH-Single reduction type

MMJH □ -107~108



Frame	A	B	C	H	E	F	G	M	N	R	V	Z	d	Output shaft								
														d1	L1	L1'	b1	h1	t1	u1	s1	m1
107	352	340	210	429	300	310	132	360	390	35	90	4	22	70	90	85	20	12	7.5	4.5	M12	25
108	389	370	230	463	340	340	154	400	435	35	100	4	22	80	110	100	22	14	9	5	M12	25

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMJH 5-107	3.7	4	799	447	244	216	165	929	577	244	216	174
MMJH 8-107	5.5	4	881	529	284	236	197	1011	659	284	236	208
MMJH10-107	7.5	4	919	567	284	236	204	1049	697	284	236	215
MMJH15-107	11	4	1004	652	337	301	263	1134	782	337	301	278
MMJH20-107	15	4	1048	696	337	301	271	1178	826	337	301	286
MMJH 8-108	5.5	4	912	523	284	236	242	1042	653	284	236	253
MMJH10-108	7.5	4	950	561	284	236	249	1080	691	284	236	260
MMJH15-108	11	4	1035	646	337	301	266	1165	776	337	301	320
MMJH20-108	15	4	1079	690	337	301	307	1209	820	337	301	328

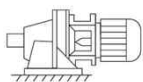
Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

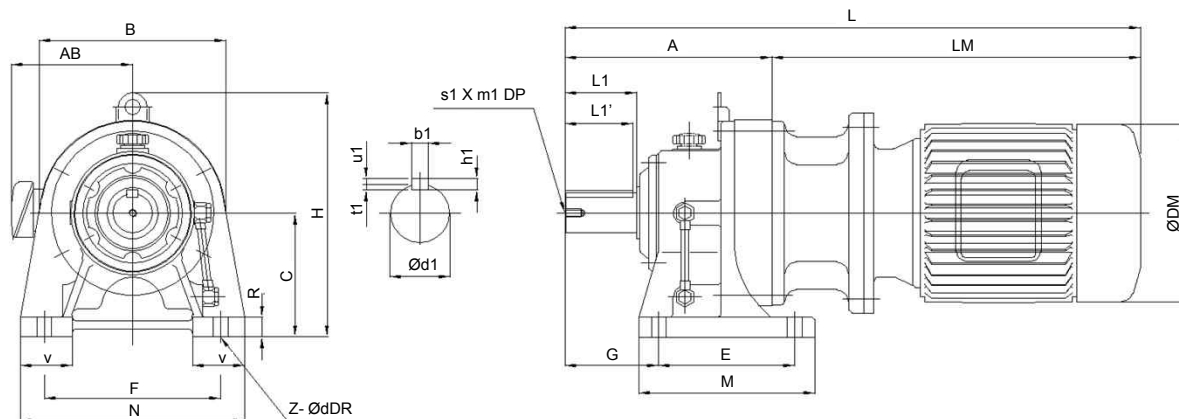
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMJH-Single reduction type

MMJH □ -109~122



	A	B	C	H	E	F	G	M	N	R	V	Z	d	Output shaft								
														d1	L1	L1'	b1	h1	t1	u1	s1	m1
109	465	430	270	553	370	450	172	440	530	50	100	4	26	95	135	130	25	14	9	5	M20	35
110	570	505	290	614	480	500	210	570	620	45	125	4	26	110	170	165	28	16	10	6	M20	35
122	570	505	290	614	480	500	210	570	620	45	125	4	26	120	170	165	32	18	11	7	M20	35

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMJH10-109	7.5	4	1028	563	284	236	362	1158	693	284	236	373
MMJH15-109	11	4	1113	648	337	301	421	1243	778	337	301	436
MMJH20-109	15	4	1157	692	337	301	429	1287	822	337	301	444
MMJH30-109	22	4	1197	732	374	325	445	1357	892	374	325	466
MMJH15-110	11	4	1224	654	337	301	552	1354	784	337	301	572
MMJH20-110	15	4	1268	698	337	301	560	1398	828	337	301	580
MMJH30-110	22	4	1308	738	374	325	591	1468	898	374	325	618
MMJH40-110	30	4	1346	776	374	316	607	1506	936	374	316	634
MMJH20-122	15	6	1308	738	374	325	580	1468	898	374	325	600
MMJH30-122	22	6	1346	776	374	316	611	1506	936	374	316	631
MMJH40-122	30	6	1431	861	404	364	627	1591	1021	404	364	647

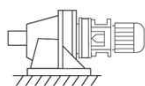
Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

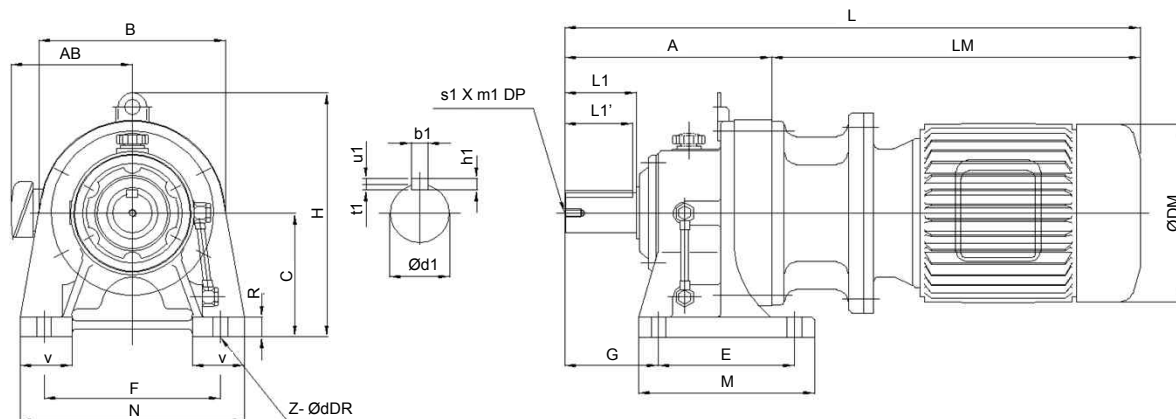
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMJH-Single reduction type

MMJH □ -111~124



Frame	A	B	C	H	E	F	G	M	N	R	V	Z	d	Output shaft								
														d1	L1	L1'	b1	h1	t1	u1	s1	m1
111	656	575	325	703	500	630	291	600	690	45	125	4	26	120	210	200	32	18	11	7	M20	45
124	656	575	325	703	500	630	291	600	690	45	125	4	26	140	210	200	36	20	12	8	M20	45

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMJH20-111	15	6	1347	691	374	325	657	1507	851	374	325	678
MMJH30-111	22	6	1406	750	374	316	766	1566	910	374	316	814
MMJH40-111	30	6	1511	855	404	364	869	1671	1015	404	364	917
MMJH50-111	37	6	1511	855	404	364	913	1671	1015	404	364	961
MMJH20-124	15	6	1347	691	374	325	677	1507	851	374	325	698
MMJH30-124	22	6	1406	750	374	316	786	1566	910	374	316	834
MMJH40-124	30	6	1511	855	404	364	889	1671	1015	404	364	937
MMJH50-124	37	6	1511	855	404	364	933	1671	1015	404	364	981

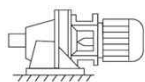
Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

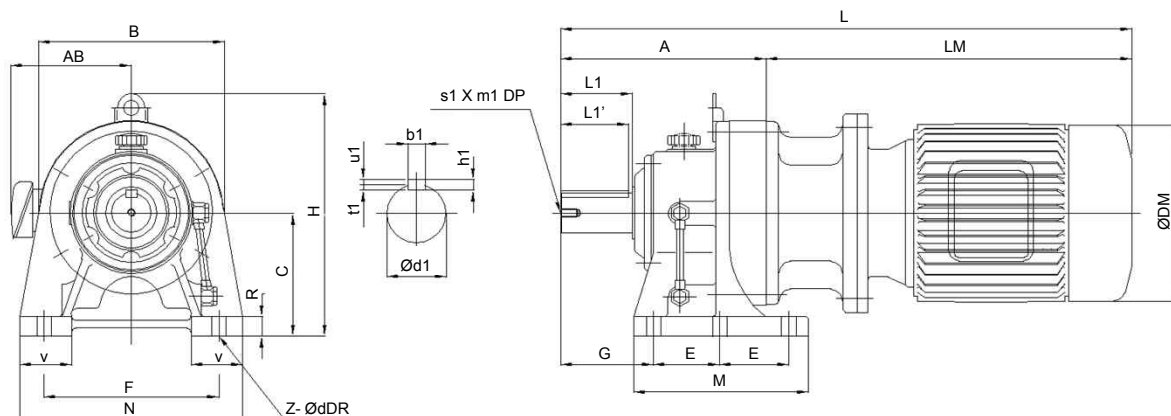
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMJH-Single reduction type

MMJH □ -112~125



Frame	A	B	C	H	E	F	G	M	N	R	V	Z	d	Output shaft								
														d1	L1	L1'	b1	h1	t1	u1	s1	m1
112	853	720	420	890	330	800	372	810	880	50	143	6	39	140	250	245	36	20	12	8	M30	52
125	853	720	420	890	330	800	372	810	880	50	143	6	39	160	250	245	40	22	13	9	M30	52

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMJH30-112	22	6	1675	822	374	316	1320	1835	982	374	316	1368
MMJH40-112	30	6	1749	896	404	364	1398	1909	1056	404	364	1446
MMJH50-112	37	6	1749	896	404	364	1442	1909	1056	404	364	1490
MMJH30-125	22	6	1675	822	374	316	1340	1835	982	374	316	1388
MMJH40-125	30	6	1749	896	404	364	1418	1909	1056	404	364	1466
MMJH50-125	37	6	1749	896	404	364	1462	1909	1056	404	364	1510

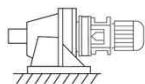
Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

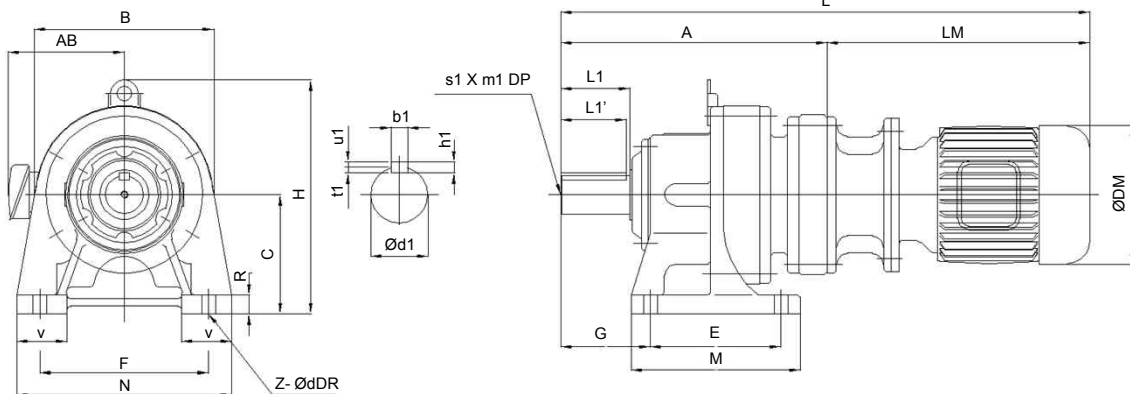
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMJH-Double reduction type

MMJH □ -232~282



Frame	A	B	C	H	E	F	G	M	N	R	V	Z	d	Output shaft								
														d1	L1	L1'	b1	h1	t1	u1	s1	m1
232	265	208	135	257	150	195	80	190	245	18	60	4	14	38	55	50	10	8	5	3	-	-
242	317	232	155	305	170	220	97	220	280	25	65	4	18	50	70	65	14	9	5.5	3.5	M10	20
252	337	232	155	305	170	220	117	220	280	25	65	4	18	50	90	80	14	9	5.5	3.5	M10	20
262	386	307	165	359	200	280	137	270	355	25	80	4	18	60	90	80	18	11	7	4	M10	20
272	438	340	210	429	300	310	132	360	390	35	90	4	22	70	90	85	20	12	7.5	4.5	M12	25
282	474	370	230	463	340	340	154	400	435	30	100	4	22	80	110	100	22	14	9	5	M12	25

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMJH02-232	0.2	4	574	309	148	124	51	674	409	148	124	54
MMJH05-232	0.4	4	605	340	174	162	56	705	440	174	162	60
MMJH 1-232	0.75	4	605	340	174	162	56	705	440	174	162	60
MMJH02-242	0.2	4	626	309	148	124	65	726	409	148	124	68
MMJH05-242	0.4	4	657	340	174	162	85	757	440	174	162	89
MMJH02-252	0.2	4	646	309	148	124	66	746	409	148	124	69
MMJH05-252	0.4	4	677	340	174	162	86	777	440	174	162	90
MMJH02-262	0.2	4	695	309	148	124	105	795	409	148	124	108
MMJH05-262	0.4	4	726	340	174	132	126	826	440	174	132	130
MMJH02-272	0.2	4	747	309	148	124	140	847	409	148	124	143
MMJH05-272	0.4	4	778	340	174	132	161	878	440	174	132	165
MMJH02-282	0.2	4	783	309	148	124	184	883	409	148	124	187
MMJH05-282	0.4	4	814	340	174	162	205	914	440	174	162	209

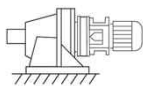
Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

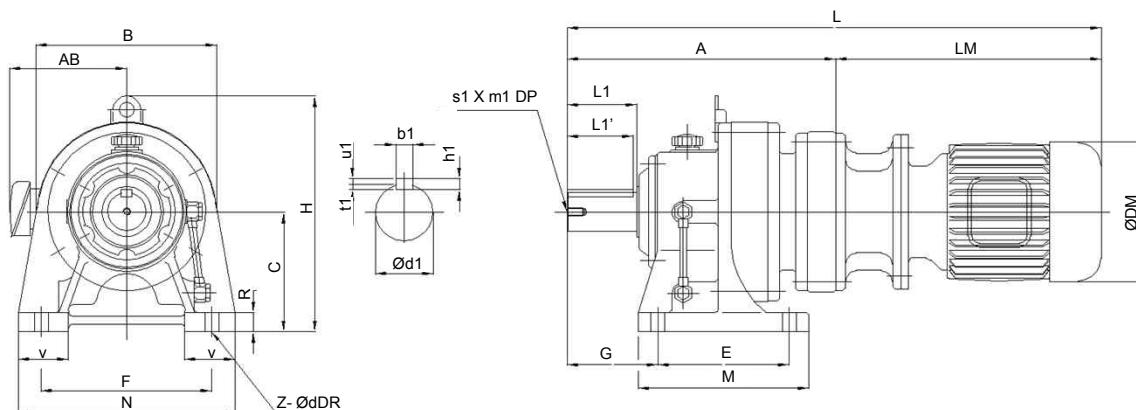
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMJH-Double reduction type

MMJH □ -243~263



Frame	A	B	C	H	E	F	G	M	N	R	V	Z	d	Output shaft									
														d1	L1	L1'	b1	h1	t1	u1	s1	m1	
243	323	232	155	305	170	220	97	220	280	25	65	4	18	50	70	65	14	9	5.5	3.5	M10	20	
253	347	232	155	305	170	220	117	220	280	25	65	4	18	50	90	80	14	9	5.5	3.5	M10	20	
263	392	307	165	359	200	280	137	270	355	25	80	4	18	60	90	80	18	11	7	4	M10	20	

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMJH 1-243	0.75	4	670	343	174	162	71	770	443	174	162	75
MMJH 2-243	1.5	4	732	405	199	178	84	832	505	199	178	89
MMJH 1-253	0.75	4	690	343	174	162	76	790	443	174	162	80
MMJH05-263	0.4	4	735	343	174	162	119	835	443	174	162	123
MMJH 1-263	0.75	4	735	343	174	162	119	835	443	174	162	123
MMJH 2-263	1.5	4	797	405	199	178	136	897	505	199	178	141
MMJH 3-263	2.2	4	842	450	220	199	153	942	550	200	199	161

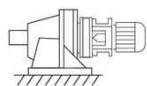
Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

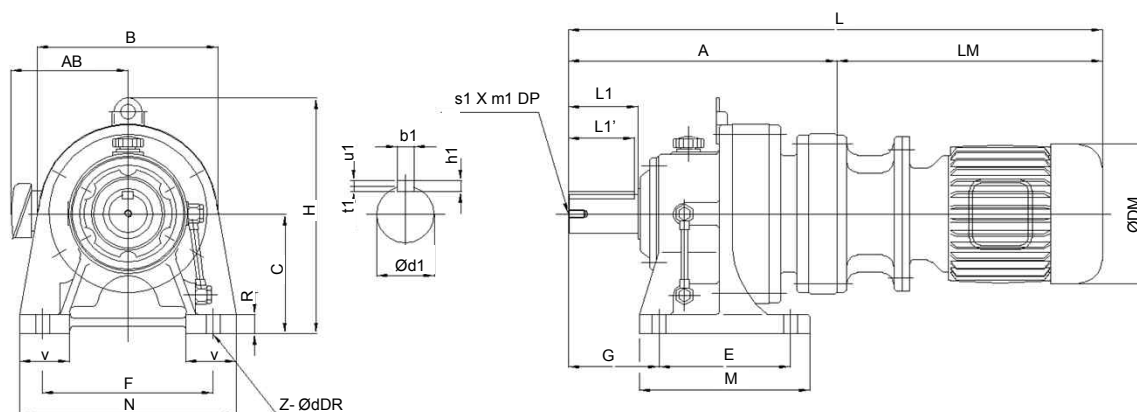
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMJH-Double reduction type

MMJH □ -273~284



Frame	A	B	C	H	E	F	G	M	N	R	V	Z	d	Output shaft									
														d1	L1	L1'	b1	h1	t1	u1	s1	m1	
273	439	340	210	429	300	310	132	360	390	35	90	4	22	70	90	85	20	12	7.5	4.5	M12	25	
274	454	340	210	429	300	310	132	360	390	35	90	4	22	70	90	85	20	12	7.5	4.5	M12	25	
284	496	370	230	463	340	340	154	400	435	35	100	4	22	80	110	100	22	14	9	5	M12	25	

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMJH 1-273	0.75	4	782	343	174	162	155	882	443	174	162	159
MMJH 2-273	1.5	4	844	405	199	178	171	944	505	199	178	175
MMJH 3-273	2.2	4	889	450	220	199	188	989	550	220	199	196
MMJH 5-274	3.7	4	898	444	244	216	203	1028	574	244	216	212
MMJH 1-284	0.75	4	848	352	174	162	218	948	452	174	162	222
MMJH 2-284	1.5	4	910	414	199	178	231	1010	514	199	178	236
MMJH 3-284	2.2	4	955	459	220	199	249	1055	559	220	199	257
MMJH 5-284	3.7	4	940	444	244	216	253	1070	574	244	216	262

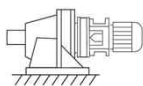
Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

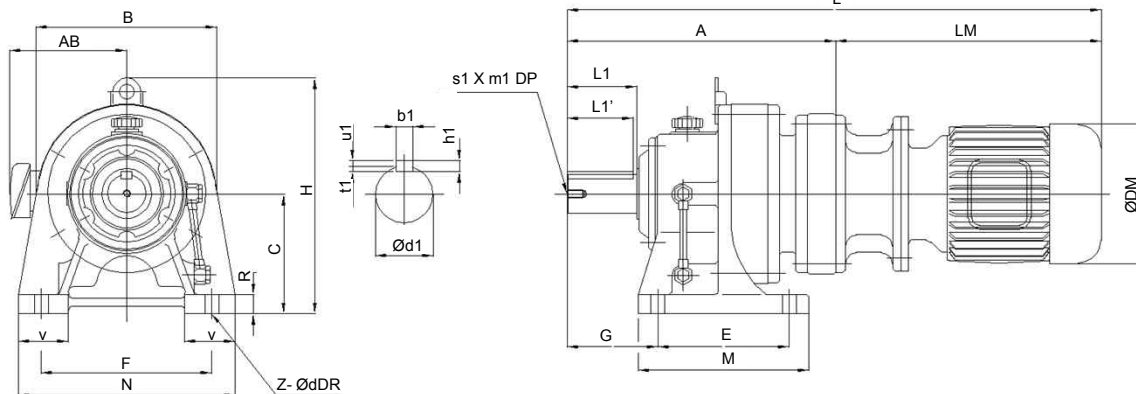
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMJH-Double reduction type

MMJH □ -293~296



Frame	A	B	C	H	E	F	G	M	N	R	V	Z	d	Output shaft									
														d1	L1	L1'	b1	h1	t1	u1	s1	m1	
293	559	430	270	553	370	450	172	440	530	50	100	4	26	95	135	130	25	14	9	5	M20	35	
294	572	430	270	553	370	450	172	440	530	50	100	4	26	95	135	130	25	14	9	5	M20	35	
296	601	430	270	553	370	450	172	440	530	50	100	4	26	95	135	130	25	14	9	5	M20	35	

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMJH 1-293	0.75	4	902	343	174	162	294	1002	443	1744	162	298
MMJH 2-293	1.5	4	964	405	199	178	312	1064	505	199	178	317
MMJH 2-294	1.5	4	986	414	199	178	320	1086	514	199	178	325
MMJH 3-294	2.2	4	1031	459	220	199	338	1131	559	220	199	346
MMJH 5-294	3.7	4	1016	444	244	216	342	1146	574	244	216	351
MMJH10-296	7.5	4	1150	549	284	236	385	1280	679	284	236	396

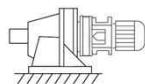
Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

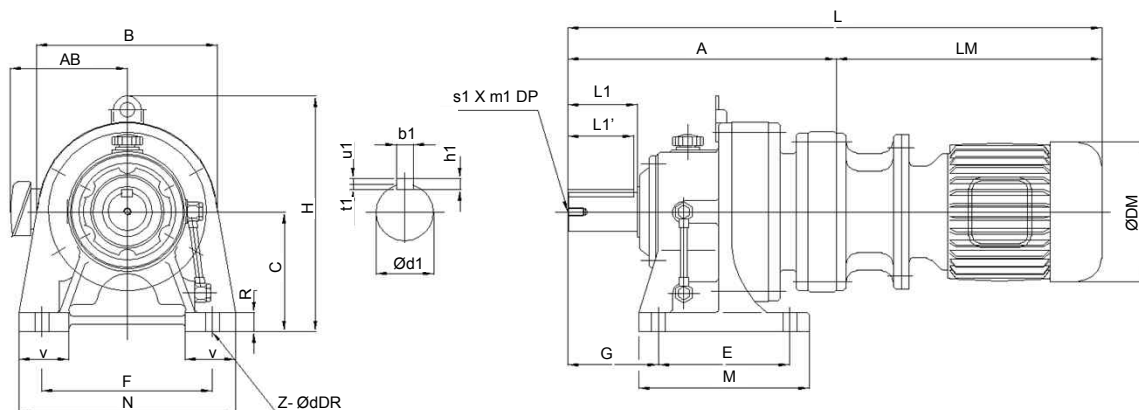
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMJH-Double reduction type

MMJH □ -2104~2226



Frame	A	B	C	H	E	F	G	M	N	R	V	Z	d	Output shaft								
														d1	L1	L1'	b1	h1	t1	u1	s1	m1
2104	682	505	290	614	480	500	210	570	620	45	125	4	26	110	170	165	28	16	10	6	M20	35
2106	705	505	290	614	480	500	210	570	620	45	125	4	26	110	170	165	28	16	10	6	M20	35
2224	682	505	290	614	480	500	210	570	620	45	125	4	26	120	170	165	32	18	11	7	M20	35
2226	705	505	290	614	480	500	210	570	620	45	125	4	26	120	170	165	32	18	11	7	M20	35

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMJH 2-2104	1.5	4	1096	414	199	178	472	1196	514	199	178	477
MMJH 3-2104	2.2	4	1141	459	220	199	490	1241	559	220	199	498
MMJH 5-2104	3.7	4	1126	444	244	216	494	1256	574	244	216	503
MMJH 8-2106	5.5	4	1216	511	284	236	529	1346	641	284	236	540
MMJH10-2106	7.5	4	1254	549	284	236	536	1384	679	284	236	547
MMJH 2-2224	1.5	4	1096	414	199	178	477	1196	514	199	178	482
MMJH 3-2224	2.2	4	1141	459	220	199	495	1241	559	220	199	503
MMJH 5-2224	3.7	4	1126	444	244	215	499	1256	574	244	215	508
MMJH 8-2226	5.5	4	1216	511	284	236	534	1346	641	284	236	545
MMJH10-2226	7.5	4	1254	549	284	236	541	1384	679	284	236	552

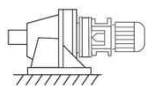
Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

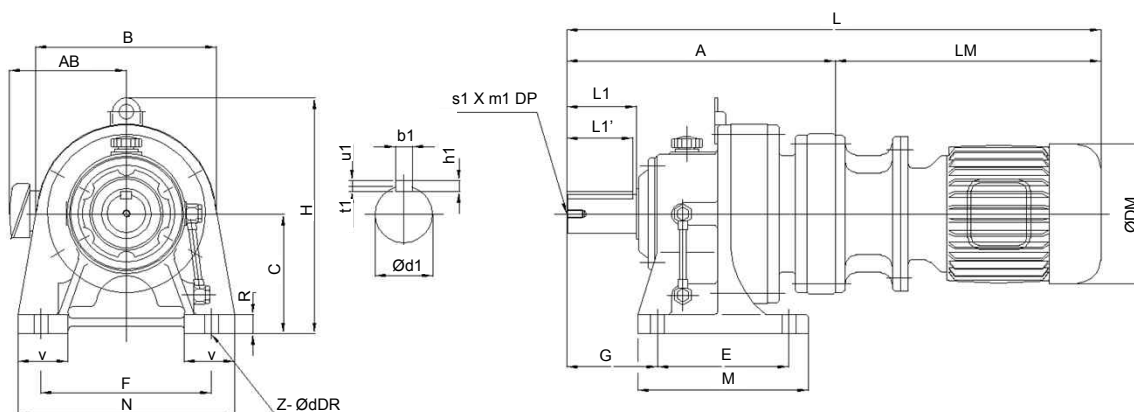
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMJH-Double reduction type

MMJH □ -2116~2247



Frame	A	B	C	H	E	F	G	M	N	R	V	Z	d	Output shaft								
														d1	L1	L1'	b1	h1	t1	u1	s1	m1
2116	788	575	325	703	500	630	291	600	690	45	125	4	26	120	210	200	32	18	11	7	M24	45
2117	802	575	325	703	500	630	291	600	690	45	125	4	26	120	210	200	32	18	11	7	M24	45
2246	788	575	325	703	500	630	291	600	690	45	125	4	26	140	210	200	36	20	12	8	M24	45
2247	802	575	325	703	500	630	291	600	690	45	125	4	26	140	210	200	36	20	12	8	M24	45

Model	Motor		Motor mounting						Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)		L	LM	DM	AB	weight(KG)
MMJH 3-2116	2.2	4	1245	457	220	199	631		1345	557	220	199	638
MMJH 5-2116	3.7	4	1230	442	244	216	635		1360	572	244	216	644
MMJH 8-2116	5.5	4	1299	511	284	236	663		1429	641	284	236	674
MMJH10-2116	7.5	4	1337	549	284	236	670		1467	679	284	236	681
MMJH 8-2117	5.5	4	1331	529	284	236	670		1461	659	284	236	681
MMJH10-2117	7.5	4	1369	567	284	236	677		1499	697	284	236	688
MMJH15-2117	2.2	4	1454	652	337	301	741		1584	782	337	301	760
MMJH20-2117	3.7	4	1498	696	337	301	749		1628	826	337	301	768
MMJH 5-2246	3.7	4	1230	442	244	216	645		1360	572	244	216	654
MMJH 8-2246	5.5	4	1299	511	284	236	673		1429	641	284	236	684
MMJH10-2246	7.5	4	1337	549	284	236	680		1467	679	284	236	691
MMJH20-2247	15	4	1498	696	337	301	759		1628	826	337	301	778

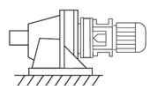
Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

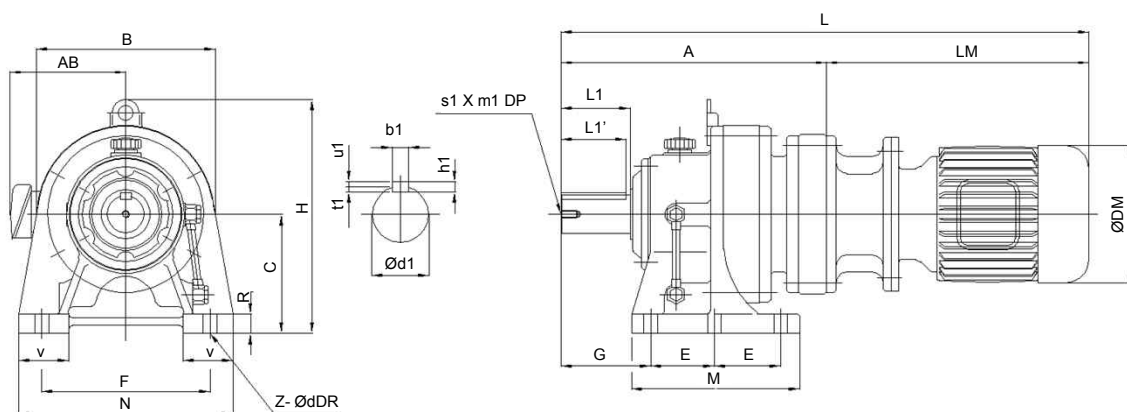
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMJH-Double reduction type

MMJH □ -2128~2258



Frame	A	B	C	H	E	F	G	M	N	R	V	Z	d	Output shaft								
														d1	L1	L1'	b1	h1	t1	u1	s1	m1
2128	1020	720	420	890	330	800	372	810	880	50	143	6	39	140	250	245	36	20	12	8	M30	52
2258	1020	720	420	890	330	800	372	810	880	50	143	6	39	160	250	245	40	22	13	9	M30	52

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMJH 8-2128	5.5	4	1543	523	284	236	1292	1673	653	284	236	1303
MMJH10-2128	7.5	4	1581	561	284	236	1299	1711	691	284	236	1310
MMJH15-2128	11	4	1666	646	337	301	1358	1796	776	337	301	1377
MMJH20-2128	15	4	1710	690	337	301	1366	1840	820	337	301	1385
MMJH10-2258	7.5	4	1581	561	284	236	1307	1711	691	284	236	1325
MMJH15-2258	11	4	1666	646	337	301	1314	1796	776	337	301	1392
MMJH20-2258	15	4	1710	690	337	301	1381	1840	820	337	301	1400

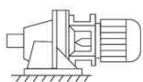
Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

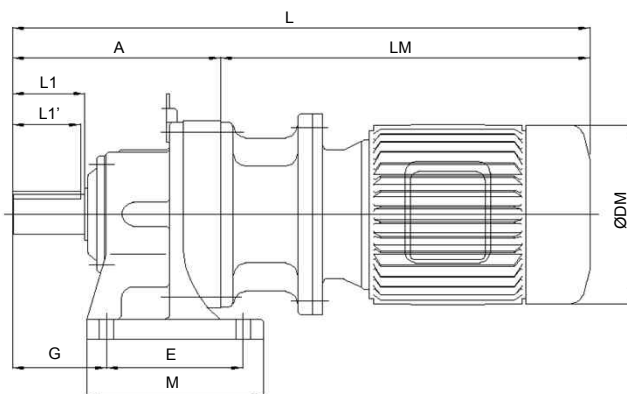
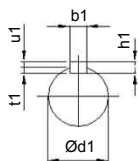
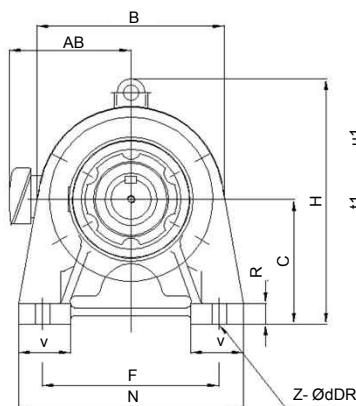
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMJHS-Single reduction type

MMJHS □ -102~103



Frame	A	B	C	H	E	F	G	M	N	R	V	Z	d	Output shaft						
														d1	L1	L1'	b1	h1	t1	u1
102	156	162	100	207	90	150	60	135	180	12	40	4	13	28	35	30	8	7	4	3
103	189	208	120	257	115	190	82	155	230	15	55	4	14	38	55	50	10	8	5	3

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMJHS02-102	0.2	4	465	309	146	124	26	565	409	148	124	29
MMJHS05-102	0.4	4	496	340	174	162	33	596	440	174	162	37
MMJHS 1-102	0.75	4	496	340	174	162	33	596	440	174	162	37
MMJHS05-103	0.4	4	532	343	174	162	44	632	443	174	162	48
MMJHS 1-103	0.75	4	532	343	174	162	44	632	443	174	162	48
MMJHS 2-103	1.5	4	594	405	199	178	57	694	505	199	178	62
MMJHS 3-103	2.2	4	639	450	220	199	69	739	550	220	199	77

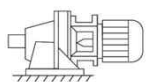
Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

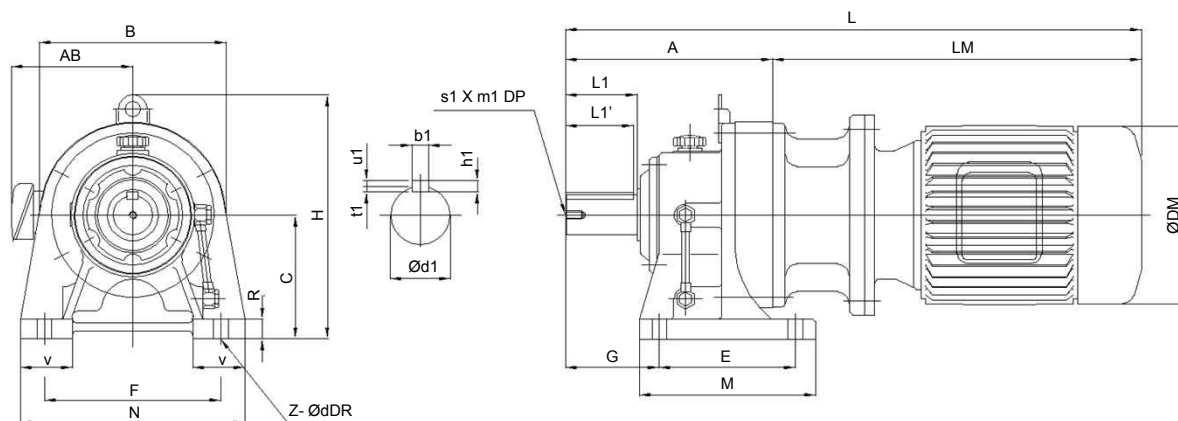
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMJHS-Single reduction type

MMJHS □ -104~106



Frame	A	B	C	H	E	F	G	M	N	R	V	Z	d	Output shaft								
														d1	L1	L1'	b1	h1	t1	u1	s1	m1
104	240	232	150	300	145	290	100	195	330	22	65	4	18	50	70	65	14	9	5.5	3.5	M10	20
105	260	232	150	300	145	290	120	195	330	22	65	4	18	50	90	80	14	9	5.5	3.5	M10	20
106	308	307	160	354	150	370	139	238	410	25	75	4	18	60	90	80	18	11	7	4	M10	20

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMJHS 1-104	0.75	4	591	352	174	162	61	691	452	174	162	65
MMJHS 2-104	1.5	4	653	414	199	178	74	753	514	199	178	79
MMJHS 3-104	2.2	4	698	459	220	199	88	798	559	220	199	96
MMJHS 5-104	3.7	4	683	444	244	216	96	813	574	244	216	105
MMJHS 2-105	1.5	4	673	414	199	178	76	773	514	199	178	81
MMJHS 3-105	2.2	4	718	459	220	199	90	818	559	220	199	98
MMJHS 5-105	3.7	4	703	444	244	216	98	833	574	244	216	107
MMJHS 3-106	2.2	4	765	457	220	199	125	865	557	220	199	133
MMJHS 5-106	3.7	4	750	442	244	216	129	880	572	244	216	138
MMJHS 8-106	5.5	4	819	511	284	236	162	949	641	284	236	173
MMJHS10-106	7.5	4	857	549	284	236	171	987	679	284	236	182

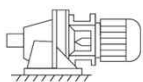
Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

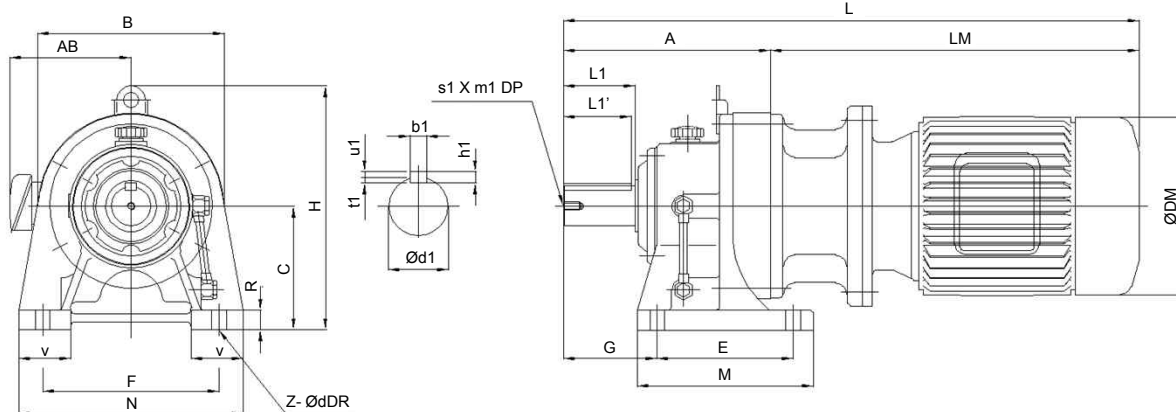
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMJHS-Single reduction type

MMJHS □ -107~110



Frame	A	B	C	H	E	F	G	M	N	R	V	Z	d	Output shaft									
														d1	L1	L1'	b1	h1	t1	u1	s1	m1	
107	352	340	200	424	275	380	125	335	430	30	80	4	22	70	90	80	20	12	7.5	4.5	M12	25	
108	389	370	220	453	320	420	145	380	470	30	85	4	22	80	110	100	22	14	9	5	M12	25	
109	465	430	250	533	380	480	170	440	530	35	90	4	26	95	135	125	25	14	9	5	M20	35	
110	626	485	265	575	395	480	210	475	580	40	110	4	26	110	165	160	28	16	10	6	M20	35	

Model	Motor		Motor mounting						Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)	
MMJHS 5-107	3.7	4	799	447	244	216	165	929	577	244	216	174	
MMJHS 8-107	5.5	4	881	529	284	236	197	1011	659	284	236	208	
MMJHS10-107	7.5	4	919	567	284	236	204	1049	697	284	236	215	
MMJHS15-107	11	4	1004	652	337	301	263	1134	782	337	301	278	
MMJHS20-107	15	4	1048	696	337	301	271	1178	826	337	301	286	
MMJH S 8-108	5.5	4	912	523	284	236	242	1042	653	284	236	253	
MMJHS10-108	7.5	4	950	561	284	236	249	1080	691	284	236	260	
MMJHS15-108	11	4	1035	646	337	301	305	1165	776	337	301	320	
MMJHS20-108	15	4	1079	690	337	301	307	1209	820	337	301	328	
MMJHS10-109	7.5	4	1028	563	284	236	362	1158	693	284	236	373	
MMJHS15-109	11	4	1113	648	337	301	421	1243	778	337	301	436	
MMJHS20-109	15	4	1157	692	337	301	429	1287	822	337	301	444	
MMJHS30-109	22	4	1197	732	374	325	445	1357	892	374	325	466	
MMJHS15-110	11	4	1180	654	337	301	552	1310	784	337	301	574	
MMJHS20-110	15	4	1224	698	337	301	560	1354	828	337	301	580	
MMJHS30-110	22	4	1264	738	374	325	591	1424	898	374	325	618	
MMJHS40-110	30	4	1302	776	374	316	607	1462	936	374	316	634	

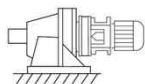
Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

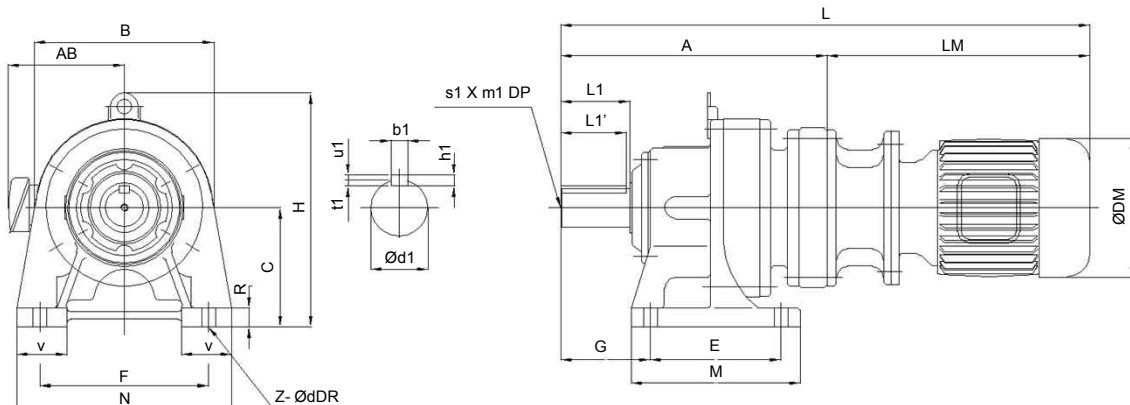
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMJHS-Double reduction type

MMJHS □ -232~282



Frame	A	B	C	H	E	F	G	M	N	R	V	Z	d	Output shaft								
														d1	L1	L1'	b1	h1	t1	u1	s1	m1
232	265	208	120	257	115	190	82	155	230	15	55	4	14	38	55	50	10	8	5	3	-	-
242	317	232	150	300	145	290	100	195	330	22	65	4	18	50	70	65	14	9	5.5	3.5	M10	20
252	337	232	150	300	145	290	120	195	330	22	65	4	18	50	90	80	14	9	5.5	3.5	M10	20
262	386	307	160	354	150	370	139	238	410	25	75	4	18	60	90	80	18	11	7	4	M10	20
272	438	340	200	424	275	380	125	335	430	30	80	4	22	70	90	85	20	12	7.5	4.5	M12	25
282	438	340	200	424	275	380	125	335	430	30	80	4	22	70	90	85	20	12	7.5	4.5	M12	25

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMJHS02-232	0.2	4	574	309	148	124	51	674	409	148	124	54
MMJHS05-232	0.4	4	605	340	174	162	56	705	440	174	162	60
MMJHS 1-232	0.75	4	605	340	174	162	56	705	440	174	162	60
MMJHS02-242	0.2	4	626	309	148	124	65	726	409	148	124	68
MMJHS05-242	0.4	4	657	340	174	1662	85	757	440	174	1662	89
MMJHS02-252	0.2	4	646	309	148	124	66	746	409	148	124	69
MMJHS05-252	0.4	4	677	340	174	162	86	777	440	174	162	90
MMJHS02-262	0.2	4	695	309	148	124	105	795	409	148	124	108
MMJHS05-262	0.4	4	726	340	174	162	126	826	440	174	162	130
MMJHS02-272	0.2	4	747	309	148	124	140	847	409	148	124	143
MMJHS05-272	0.4	4	778	340	174	162	161	878	440	174	162	165
MMJHS02-282	0.2	4	783	309	148	124	184	883	409	148	124	187
MMJHS05-282	0.4	4	814	340	174	162	205	914	440	174	162	209

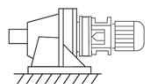
Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

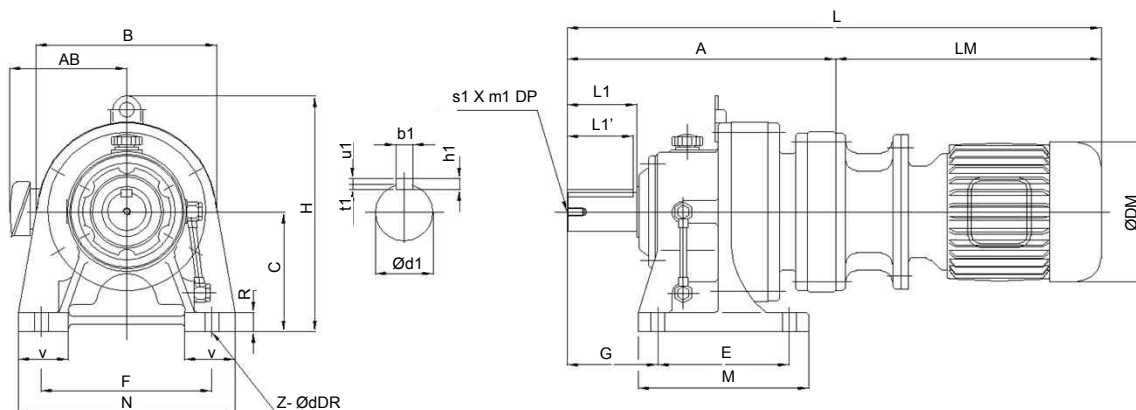
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMJHS-Double reduction type

MMJHS □ -243~263



Frame	A	B	C	H	E	F	G	M	N	R	V	Z	d	Output shaft								
														d1	L1	L1'	b1	h1	t1	u1	s1	m1
243	323	232	150	300	145	290	100	195	330	22	65	4	18	50	70	65	14	9	5.5	3.5	M10	20
253	347	232	150	300	145	290	120	195	330	22	65	4	18	50	90	80	14	9	5.5	3.5	M10	20
263	392	307	160	354	150	370	139	238	410	25	75	4	18	60	90	80	18	11	7	4	M10	20

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMJHS 1-243	0.75	4	670	343	174	162	71	770	443	174	162	75
MMJHS 2-243	1.5	4	732	405	199	178	84	832	505	199	178	89
MMJHS 1-253	0.75	4	690	343	174	162	76	790	443	174	162	80
MMJHS05-263	0.4	4	735	343	174	162	119	835	443	174	162	123
MMJHS 1-263	0.75	4	735	343	174	162	119	835	443	174	162	123
MMJHS 2-263	1.5	4	797	405	199	178	136	897	505	199	178	141
MMJHS 3-263	2.2	4	842	450	220	199	153	942	550	200	199	161

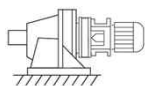
Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

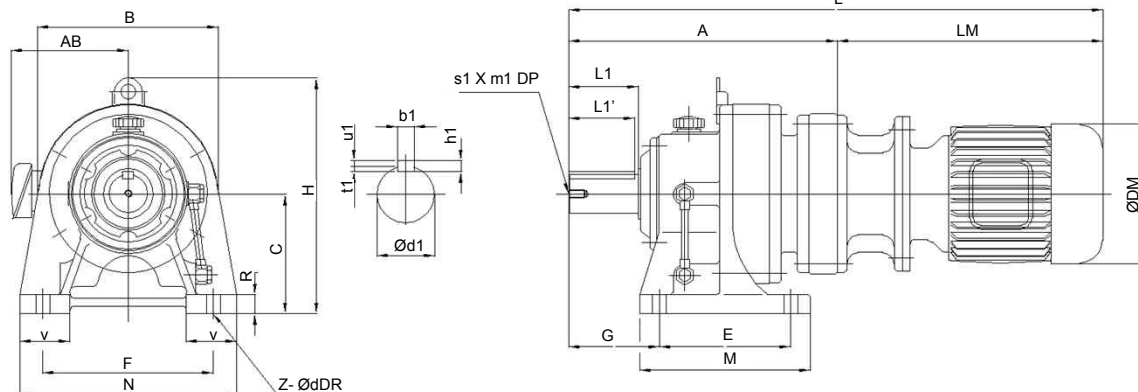
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMJHS-Double reduction type

MMJHS □ -273~284



Frame	A	B	C	H	E	F	G	M	N	R	V	Z	d	Output shaft									
														d1	L1	L1'	b1	h1	t1	u1	s1	m1	
273	439	340	200	424	275	380	25	335	430	30	80	4	22	70	90	85	20	12	7.5	4.5	M12	25	
274	454	340	200	424	275	380	25	335	430	30	80	4	22	70	90	85	20	12	7.5	4.5	M12	25	
284	496	370	220	453	320	420	145	380	470	30	85	4	22	80	110	100	22	14	9	5	M12	25	

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMJHS 1-273	0.75	4	782	343	174	162	155	882	443	174	162	159
MMJHS 2-273	1.5	4	844	405	199	178	171	944	505	199	178	175
MMJHS 3-273	2.2	4	889	450	220	199	188	989	550	220	199	196
MMJHS 5-274	3.7	4	898	444	244	216	203	1028	574	244	216	212
MMJHS 1-284	0.75	4	848	352	174	162	218	948	452	174	162	222
MMJHS 2-284	1.5	4	910	414	199	178	231	1010	514	199	178	236
MMJHS 3-284	2.2	4	955	459	220	199	249	1055	559	220	199	257
MMJHS 5-284	3.7	4	940	444	244	216	253	1070	574	244	216	262

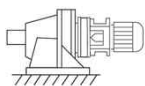
Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

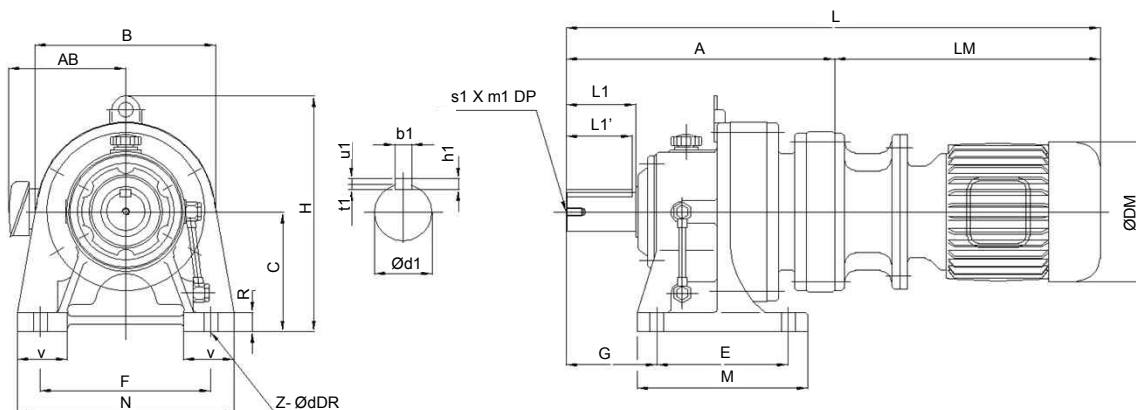
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMJHS-Double reduction type

MMJHS □ -293~2106



Frame	A	B	C	H	E	F	G	M	N	R	V	Z	d	Output shaft									
														d1	L1	L1'	b1	h1	t1	u1	s1	m1	
293	559	430	250	533	380	480	170	440	530	35	90	4	26	95	135	130	25	14	9	5	M20	35	
294	572	430	250	533	380	480	170	440	530	35	90	4	26	95	135	130	25	14	9	5	M20	35	
296	601	430	250	533	380	480	170	440	530	35	90	4	26	95	135	130	25	14	9	5	M20	35	
2104	650	485	265	575	395	480	210	475	580	40	110	4	26	110	165	160	28	16	10	6	M20	35	
2106	675	485	265	575	395	480	210	475	580	40	110	4	26	110	165	160	28	16	10	6	M20	35	

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMJHS 1-293	0.75	4	902	343	180	162	294	1002	443	180	162	298
MMJHS 2-293	1.5	4	964	405	199	178	312	1064	505	199	178	317
MMJHS 2-294	1.5	4	986	414	199	178	320	1086	514	199	178	325
MMJHS 3-294	2.2	4	1031	459	220	199	338	1131	559	220	199	346
MMJHS 5-294	3.7	4	1016	444	244	216	342	1146	574	244	216	351
MMJHS10-296	7.5	4	1150	549	284	236	385	1280	679	284	236	396
MMJHS 2-2104	1.5	4	1064	414	199	178	472	1164	514	199	178	477
MMJHS 3-2104	2.2	4	1109	459	222	199	490	1209	559	222	199	498
MMJHS 5-2104	3.7	4	1094	444	244	216	494	1224	574	244	216	503
MMJHS 8-2106	5.5	4	1186	511	284	236	529	1316	641	284	236	540
MMJHS10-2106	7.5	4	1224	549	284	236	536	1354	679	284	236	547

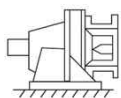
Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

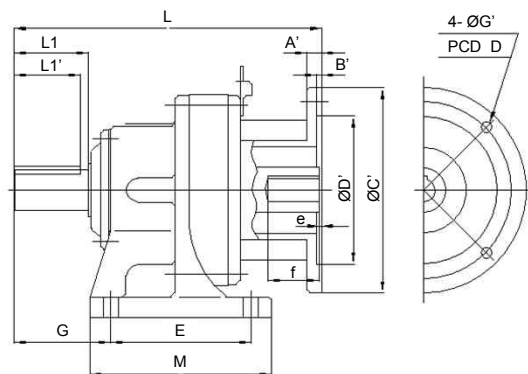
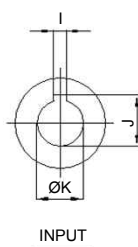
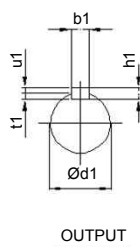
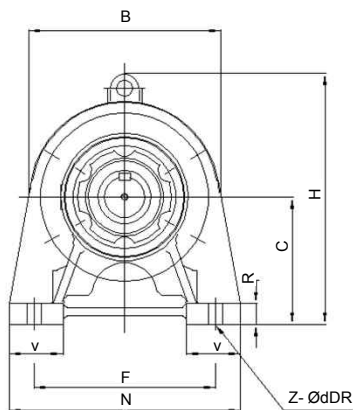
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MJH-Single reduction type

MJH □ -102~103



Frame	C	B	E	F	G	H	M	N	R	V	Z	d	Output shaft						
													d1	L1	L1'	b1	h1	t1	u1
102	105	162	120	140	58	220	160	185	17	45	4	13	28	35	30	8	7	4	3
103	135	208	150	195	80	270	190	245	18	60	4	14	38	55	50	10	8	5	3

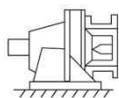
Model	Motor		Motor mounting flange dimension								Motor shaft input dimension					
	KW	POLE	L	D	D'	C'	B'	A'	G'	f	F	J	I	e	weight(KG)	
MJH02-102	0.2	4	237	130	110	160	5	10	10	14F6	41	16.3	5	3	20	
MJH05-102	0.4	4	237	165	130	200	5	10	12	19F6	41	21.8	6	3	20	
MJH 1-102	0.75	4	237	165	130	200	5	10	12	19F6	41	21.8	6	3	21	
MJH05-103	0.4	4	273	165	130	200	5	10	12	19F6	41	21.8	6	3	30	
MJH 1-103	0.75	4	273	165	130	200	5	10	12	19F6	41	21.8	6	3	31	
MJH 2-103	1.5	4	284	165	130	200	5	12	12	24F6	52	27.3	8	3	31	
MJH 3-103	2.2	4	294	215	180	250	6	15	15	28F6	62	27.3	8	3	32	

Note 1) Applied h6 allowance level for output shaft and input shaft dimension.

2) Applied parallel key (KS B 1311-84) dimension.

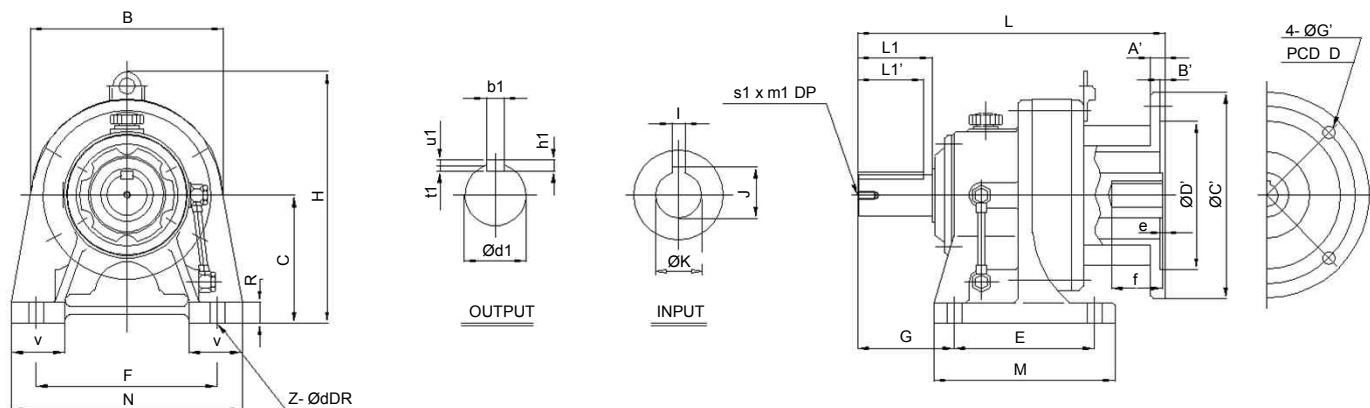
3) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MJH-Single reduction type

MJH -104~106



Frame	C	B	E	F	G	H	M	N	R	V	Z	d	Output shaft								
													d1	L1	L1'	b1	h1	t1	u1	s1	m1
104	155	232	170	220	97	305	220	280	25	65	4	18	50	70	65	14	9	5.5	3.5	M10	20
105	155	232	170	220	117	305	220	280	25	65	4	18	50	90	80	14	9	5.5	3.5	M10	20
106	165	307	200	280	137	359	270	355	25	80	4	18	60	90	80	18	11	7	4	M10	20

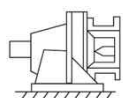
Model	Motor		Motor mounting flange dimension							Motor shaft input dimension					
	KW	POLE	L	D	D'	C'	B'	A'	G'	K	f	J	I	e	weight(KG)
MJH 1-104	0.75	4	332	165	130	200	5	15	12	19F6	41	21.8	6	3	49
MJH 2-104	1.5	4	343	165	130	200	5	15	12	24F6	52	27.3	8	3	49
MJH 3-104	2.2	4	353	215	180	250	6	18	15	28F6	62	31.3	8	3	51
MJH 5-104	3.7	4	353	215	180	250	6	18	15	28F6	62	31.3	8	3	51
MJH 2-105	1.5	4	363	165	130	200	5	15	12	24F6	52	27.3	8	3	51
MJH 3-105	2.2	4	373	215	180	250	6	18	15	28F6	62	31.3	8	3	53
MJH 5-105	3.7	4	373	215	180	250	6	18	15	28F6	62	31.3	8	3	53
MJH 3-106	2.2	4	420	215	180	250	6	18	15	28F6	62	31.3	8	3	85
MJH 5-106	3.7	4	420	215	180	250	6	18	15	28F6	62	31.3	8	3	86
MJH 8-106	5.5	4	437	265	230	300	6	18	15	38F7	78	41.3	10	4	93
MJH10-106	7.5	4	437	265	230	300	6	18	15	38F7	78	41.3	10	4	95

Note 1) Applied h6 allowance level for output shaft and input shaft dimension.

2) Applied parallel key (KS B 1311-84) dimension.

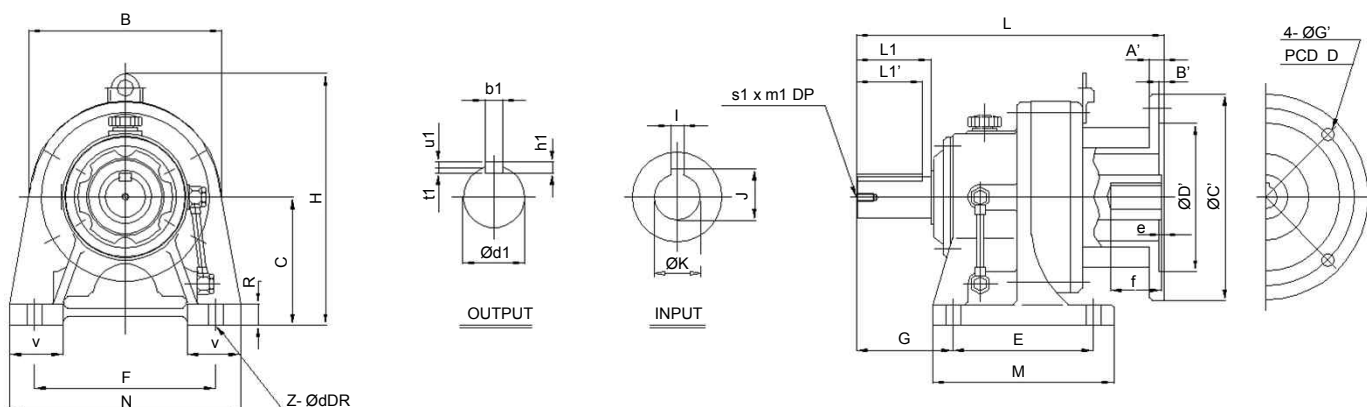
3) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MJH-Single reduction type

MJH -107~109



Frame	C	B	E	F	G	H	M	N	R	V	Z	d	Output shaft								
													d1	L1	L1'	b1	h1	t1	u1	s1	m1
107	210	340	300	310	132	429	360	390	35	90	4	22	70	90	85	20	12	7.5	4.5	M12	25
108	230	370	340	340	154	463	400	435	35	100	4	22	80	110	100	22	14	9	5	M12	25
109	270	430	370	450	172	553	440	530	50	100	4	26	95	135	130	25	14	9	5	M20	35

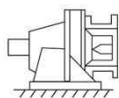
Model	Motor		Motor mounting flange dimension							Motor shaft input dimension					
	KW	POLE	L	D	D'	C'	B'	A'	G'	K	f	J	I	e	weight(KG)
MJH 5-107	3.7	4	469	215	180	250	6	18	15	28F6	62	31.3	8	3	122
MJH 8-107	5.5	4	499	265	230	300	6	22	15	38F7	78	41.3	10	4	128
MJH10-107	7.5	4	499	265	230	300	6	22	15	38F7	78	41.3	10	4	128
MJH15-107	11	4	530	300	250	350	6	22	19	42F7	98	45.3	12	15	140
MJH 20-107	15	4	530	300	250	350	6	22	19	42F7	98	45.3	12	15	140
MJH 8-108	5.5	4	530	265	230	300	6	20	15	38F7	78	41.3	10	4	173
MJH10-108	7.5	4	530	265	230	300	6	20	15	38F7	78	41.3	10	4	173
MJH15-108	11	4	561	300	250	350	6	22	19	42F7	98	45.3	12	15	182
MJH20-108	15	4	561	300	250	350	6	22	19	42F7	98	45.3	12	15	182
MJH10-109	7.5	4	608	265	230	300	6	20	15	38F7	78	41.3	10	4	286
MJH15-109	11	4	639	300	250	350	6	22	19	42F7	98	45.3	12	15	298
MJH20-109	15	4	639	300	250	350	6	22	19	42F7	98	45.3	12	15	298
MJH30-109	22	4	639	350	300	400	6	22	19	48F7	98	51.8	14	15	305

Note 1) Applied h6 allowance level for output shaft and input shaft dimension.

2) Applied parallel key (KS B 1311-84) dimension.

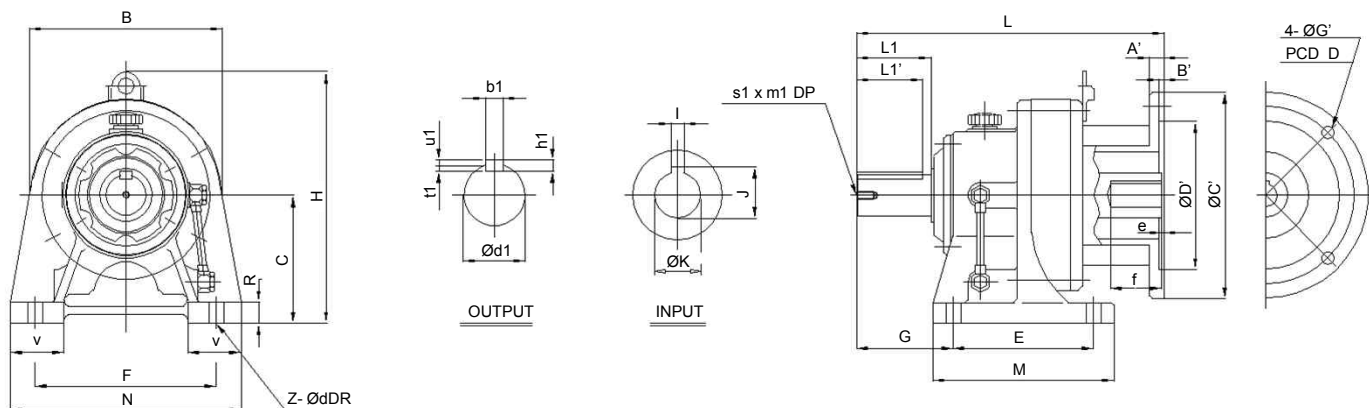
3) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MJH-Single reduction type

MJH -110~124



Frame	C	B	E	F	G	H	M	N	R	V	Z	d	Output shaft									
													d1	L1	L1'	b1	h1	t1	u1	s1	m1	
110	290	505	480	500	210	614	570	620	45	125	4	26	110	170	165	28	16	10	6	M20	35	
122	290	505	480	500	210	614	570	620	45	125	4	26	120	170	165	32	18	11	7	M20	35	
111	325	575	500	630	291	703	600	690	45	125	4	26	120	210	200	32	18	11	7	M24	45	
124	325	575	500	630	291	703	600	690	45	125	4	26	140	210	200	36	20	12	8	M24	45	

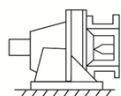
Model	Motor		Motor mounting flange dimension							Motor shaft input dimension					
	KW	POLE	L	D	D'	C'	B'	A'	G'	K	f	J	I	e	weight(KG)
MJH15-110	11	4	750	350	250	350	6	25	19	42F7	95	453	12	20	414
MJH20-110	15	4	750	350	250	350	6	25	19	42F7	95	45.3	12	20	414
MJH30-110	22	4	750	350	300	400	6	25	19	48F7	95	51.8	14	20	430
MJH40-110	30	4	750	350	300	400	6	25	19	55F7	95	60	16	20	430
MJH15-122	11	6	750	300	250	350	6	25	19	42F7	95	45.3	12	20	424
MJH20-122	15	6	750	350	300	400	6	25	19	48F7	95	51.8	14	20	424
MJH30-122	22	6	750	350	300	400	6	25	19	55F7	95	60	16	20	440
MJH40-122	30	6	750	400	350	450	6	25	19	60F7	125	64.4	18	20	440
MJH20-111	15	6	840	350	300	400	6	35	19	48F7	107	52.3	14	26	444
MJH30-111	22	6	840	350	300	400	6	35	19	55F7	107	59.8	16	26	444
MJH40-111	30	6	840	400	350	450	6	35	19	60F7	125	64.8	18	19	460
MJH50-111	37	6	840	400	350	450	6	35	19	60F7	125	64.8	18	19	460
MJH20-124	15	6	840	350	300	400	6	35	19	48F7	107	52.3	14	26	454
MJH30-124	22	6	840	350	300	400	6	35	19	55F7	107	59.8	16	26	454
MJH40-124	30	6	840	400	350	450	6	35	19	60F7	125	64.8	18	19	470
MJH50-124	37	6	840	400	350	450	6	35	19	60F7	125	64.8	18	19	470

Note 1) Applied h6 allowance level for output shaft and input shaft dimension.

2) Applied parallel key (KS B 1311-84) dimension.

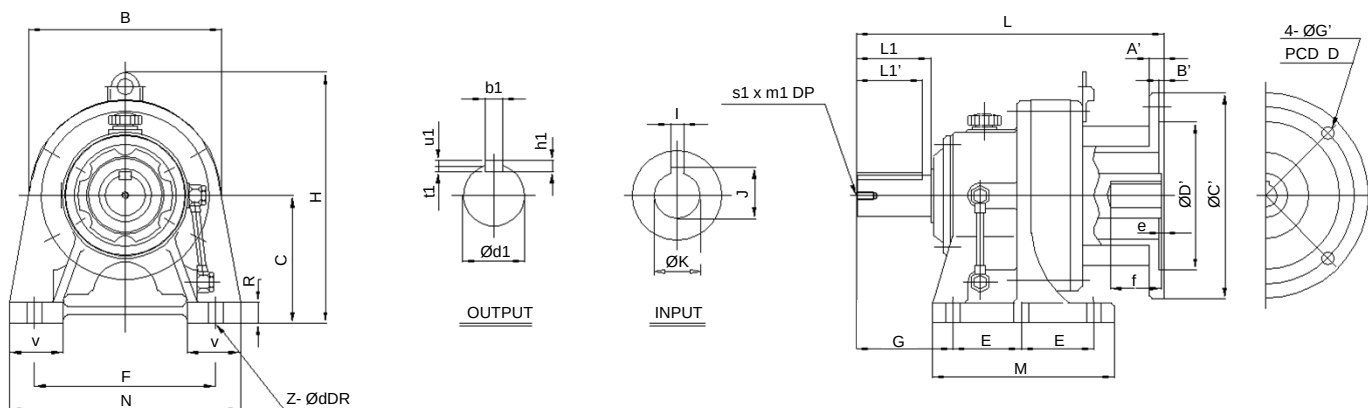
3) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MJH-Single reduction type

MJH □ -112~125



Frame	C	B	E	F	G	H	M	N	R	V	Z	d	Output shaft								
													d1	L1	L1'	b1	h1	t1	u1	s1	m1
112	420	720	330	800	372	890	810	880	50	143	6	39	140	250	245	36	20	12	8	M30	52
125	420	720	330	800	372	890	810	880	50	143	6	39	160	250	245	40	22	13	9	M30	52

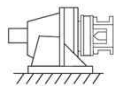
Model	Motor		Motor mounting flange dimension							Motor shaft input dimension					
	KW	POLE	L	D	D'	C'	B'	A'	G'	K	f	J	I	e	weight(KG)
MJH30-112	22	6	1079	350	300	400	6	35	19	55F7	107	59.8	16	26	1186
MJH40-112	30	6	1079	400	350	450	6	35	19	60F7	137	64.8	18	26	1151
MJH50-112	40	6	1079	400	350	450	6	35	19	60F7	137	64.8	18	26	1195
MJH30-125	22	6	1079	350	300	400	6	35	19	55F7	107	59.8	16	26	1206
MJH40-125	30	6	1079	400	350	450	6	35	19	60F7	137	64.8	18	26	1171
MJH50-125	40	6	1079	400	350	450	6	35	19	60F7	137	64.8	18	26	1215

Note 1) Applied h6 allowance level for output shaft and input shaft dimension.

2) Applied parallel key (KS B 1311-84) dimension.

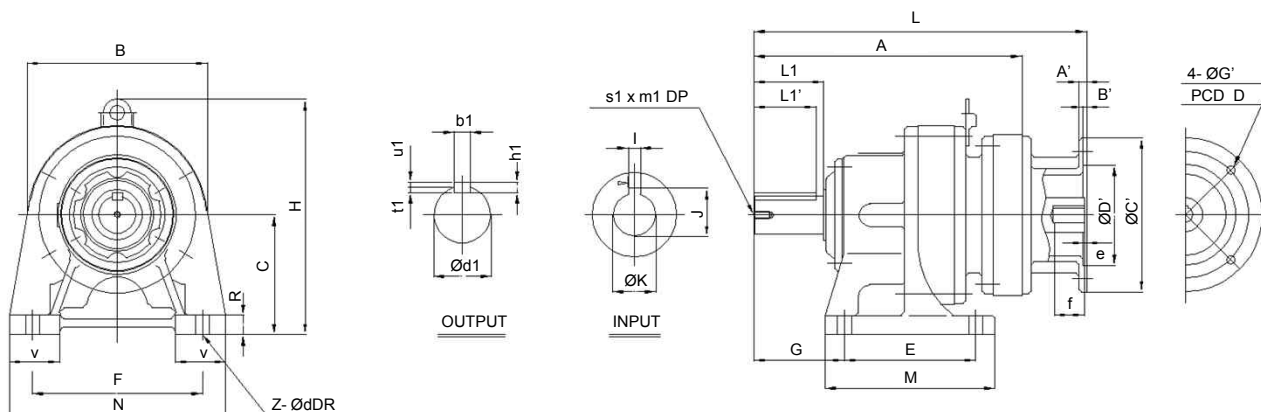
3) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MJH-Double reduction type

MJH ☐ -232~282



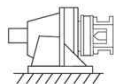
Frame	A	C	B	E	F	G	H	M	P	N	V	Z	d	Output shaft									
														d1	L1	L1'	b1	h1	t1	u1	s1	m1	
232	265	135	208	150	195	80	270	190	245	18	60	4	14	38	55	50	10	8	5	3	-	-	
242	317	155	232	170	220	97	305	220	280	25	65	4	18	50	70	65	14	9	5.5	3.5	M10	20	
252	327	155	232	170	220	117	305	220	280	25	65	4	18	50	90	85	14	9	5.5	3.5	M10	20	
262	386	165	307	200	280	137	359	270	355	25	80	4	18	60	90	80	18	11	7	4	M10	20	
272	438	210	340	300	310	132	429	360	390	35	90	4	22	70	90	85	20	12	7.5	4.5	M12	25	
282	474	230	370	340	340	154	463	400	435	35	100	4	22	80	110	100	22	14	9	5	M12	25	
Model			Motor		Motor mounting flange dimension							Motor shaft input dimension											
			KW	POLE	L	D	D'	C'	B'	A'	G'	K	f	J	I	e	weight(KG)						
MJH02-232			0.2	4	346	130	110	160	5	10	10	14F6	41	16.3	5	3	42						
MJH05-232			0.4	4	346	165	130	200	5	10	12	19F6	41	21.8	6	3	42						
MJH 1-232			0.75	4	346	165	130	200	5	10	12	19F6	41	21.8	6	3	43						
MJH02-242			0.2	4	398	130	110	160	5	10	10	14F6	41	16.3	5	3	55						
MJH05-242			0.4	4	398	165	130	200	5	10	12	19F6	41	21.8	6	3	55						
MJH02-252			0.2	4	418	130	110	160	5	10	10	14F6	41	16.3	5	3	57						
MJH05-252			0.4	4	418	165	130	200	5	10	12	19F6	41	21.8	6	3	57						
MJH02-262			0.2	4	467	130	110	160	5	10	10	14F6	41	16.3	5	3	96						
MJH05-262			0.4	4	467	165	130	200	5	10	12	19F6	41	21.8	6	3	96						
MJH02-272			0.2	4	519	130	110	160	5	10	12	14F6	41	16.3	5	3	131						
MJH05-272			0.4	4	519	165	130	200	5	10	12	19F6	41	21.8	6	3	131						
MJH05-282			0.4	4	555	165	130	200	5	10	12	19F6	41	21.8	6	3	175						

Note 1) Applied h6 allowance level for output shaft and input shaft dimension.

2) Applied parallel key (KS B 1311-84) dimension.

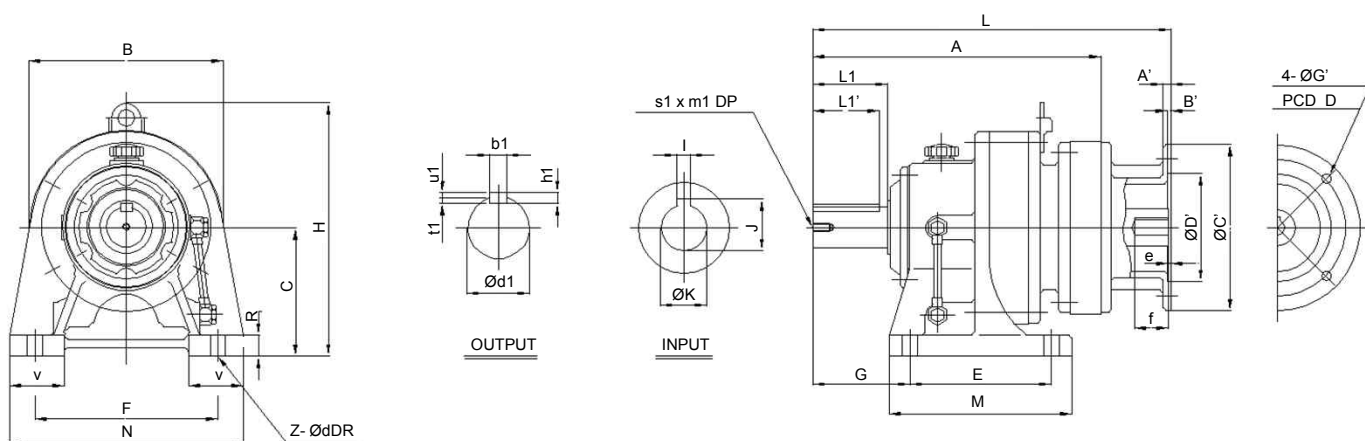
3) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MJH-Double reduction type

MJH □ -243~284

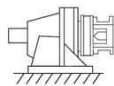


Frame	A	C	B	E	F	G	H	M	N	R	V	Z	d	Output shaft									
														d1	L1	L1'	b1	h1	t1	u1	s1	m1	
243	327	155	232	170	220	97	305	220	280	25	65	4	18	50	70	65	14	9	5.5	3.5	M10	20	
253	347	155	232	170	220	117	305	220	280	25	65	4	18	50	90	85	14	9	5.5	3.5	M10	20	
263	392	165	307	200	280	137	359	270	355	25	80	4	18	60	90	80	18	11	7	4	M10	20	
273	439	210	340	300	310	132	429	360	390	35	90	4	22	70	90	85	20	12	7.5	4.5	M12	25	
274	454	210	340	300	310	132	429	360	390	35	90	4	22	70	90	85	20	12	7.5	4.5	M12	25	
284	496	230	370	340	340	154	463	400	435	35	100	4	22	80	110	100	22	14	9	5	M12	25	

Model	Motor		Motor mounting flange dimension							Motor shaft input dimension					
	KW	POLE	L	D	D'	C'	B'	A'	G'	K	f	J	I	e	weight(KG)
MJH 1-243	0.75	4	411	165	130	200	5	10	12	19F6	41	21.8	6	3	59
MJH 2-243	1.5	4	422	165	130	200	6	10	12	24F6	52	27.3	8	3	59
MJH 1-253	0.75	4	431	165	130	200	5	10	12	19F6	41	21.8	6	3	61
MJH05-263	0.4	4	476	165	130	200	5	10	12	19F6	41	21.8	6	3	103
MJH 1-263	0.75	4	476	165	130	200	5	10	12	19F6	41	21.8	6	3	104
MJH 2-263	1.5	4	487	165	130	200	5	12	12	24F6	52	27.3	8	3	104
MJH 3-263	2.2	4	497	215	180	250	6	15	15	28F6	62	31.3	8	3	105
MJH 1-273	0.75	4	523	165	130	200	5	10	12	19F6	41	21.8	6	3	139
MJH 2-273	1.5	4	534	165	130	200	5	12	12	24F6	52	27.3	8	3	139
MJH 3-273	2.2	4	544	215	180	250	6	15	15	28F6	62	31.3	8	3	140
MJH 5-274	3.7	4	568	215	180	250	6	18	15	28F6	62	31.3	8	3	155
MJH 1-284	0.75	4	589	165	130	200	5	15	12	19F6	41	21.8	6	3	199
MJH 2-284	1.5	4	600	165	130	200	5	15	12	24F6	52	27.3	8	3	199
MJH 3-284	2.2	4	610	215	180	250	6	18	15	28F6	62	31.3	8	3	201
MJH 5-284	3.7	4	610	215	180	250	6	18	15	28F6	62	31.3	8	3	201

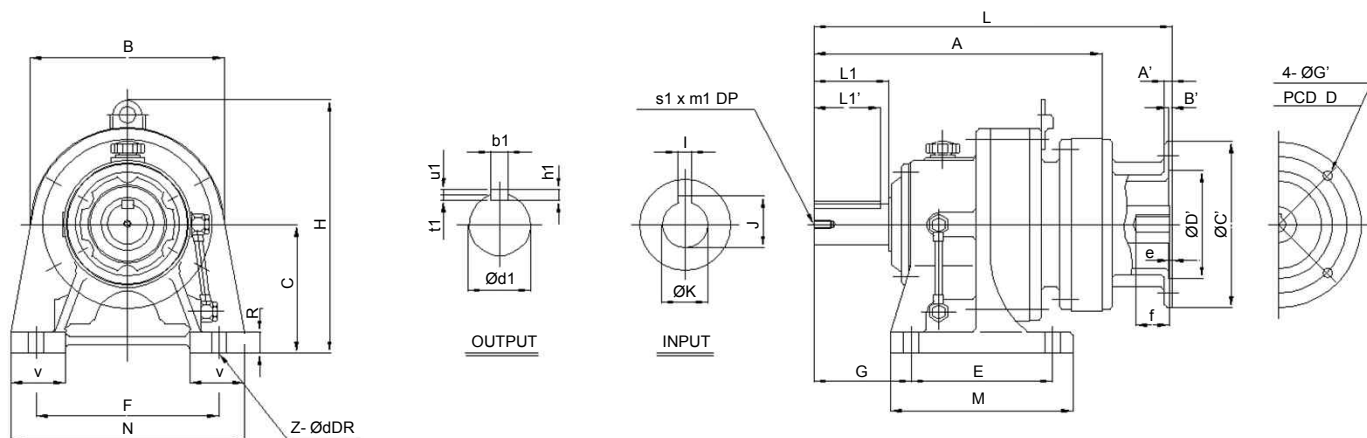
- Note 1) Applied h6 allowance level for output shaft and input shaft dimension.
2) Applied parallel key (KS B 1311-84) dimension.
3) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MJH-Double reduction type

MJH -293~2226



Frame	A	C	B	E	F	G	H	M	N	R	V	Z	d	Output shaft									
														d1	L1	L1'	b1	h1	t1	u1	s1	m1	
293	559	270	430	370	450	172	553	440	530	50	100	4	26	95	135	130	25	14	9	5	M20	35	
294	571	270	430	370	450	172	553	440	530	50	100	4	26	95	135	130	25	14	9	5	M20	35	
296	601	270	430	370	450	172	553	440	530	50	100	4	26	95	135	130	25	14	9	5	M20	35	
2104	682	290	505	480	500	210	614	570	620	45	125	4	26	110	170	165	28	16	10	6	M20	35	
2106	705	290	505	480	500	210	614	570	620	45	125	4	26	110	170	165	32	18	11	7	M20	35	
2224	682	290	505	480	500	210	614	570	620	45	125	4	26	120	170	165	28	16	10	6	M20	35	
2226	705	290	505	480	500	210	614	570	620	45	125	4	26	120	170	165	32	18	11	7	M20	35	

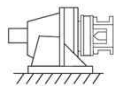
Model	Motor		Motor mounting flange dimension							Motor shaft input dimension						weight(KG)
	KW	POLE	L	D	D'	C'	B'	A'	G'	K	f	J	I	e		
MJH 1-293	0.75	4	643	165	130	200	5	10	12	19F6	41	21.8	6	3		279
MJH 2-293	1.5	4	654	165	130	200	5	12	12	24F6	52	27.3	8	3		279
MJH 2-294	1.5	4	676	165	130	200	5	15	12	24F6	52	27.8	8	3		288
MJH 3-294	2.2	4	686	215	180	250	6	18	15	28F6	62	31.3	8	3		290
MJH 5-294	3.7	4	686	215	180	250	6	18	15	28F6	62	31.3	8	3		290
MJH10-296	7.5	4	730	265	230	300	6	22	15	38F7	78	41.3	10	4		298
MJH 2-2104	1.5	4	786	165	130	200	5	15	12	24F6	52	27.3	8	3		440
MJH 3-2104	2.2	4	796	215	180	250	6	18	15	28F6	62	31.3	8	3		442
MJH 5-2104	3.7	4	796	215	180	250	6	18	15	28F6	62	31.3	8	3		442
MJH 8-2106	5.5	4	834	265	230	300	6	22	15	38F7	78	41.3	10	4		449
MJH10-2106	7.5	4	834	265	230	300	6	22	15	38F7	78	41.3	10	4		449
MJH 2-2224	1.5	4	786	165	130	200	5	15	12	24F6	52	27.3	8	3		445
MJH 3-2224	2.2	4	796	215	180	250	6	18	15	28F6	62	31.3	8	3		447
MJH 5-2224	3.7	4	796	215	180	250	6	18	15	28F6	62	31.3	8	3		447
MJH 8-2226	5.5	4	834	265	230	300	6	22	15	38F7	78	41.3	10	4		454
MJH10-2226	7.5	4	834	265	230	300	6	22	15	38F7	78	41.3	10	4		454

Note 1) Applied h6 allowance level for output shaft and input shaft dimension.

2) Applied parallel key (KS B 1311-84) dimension.

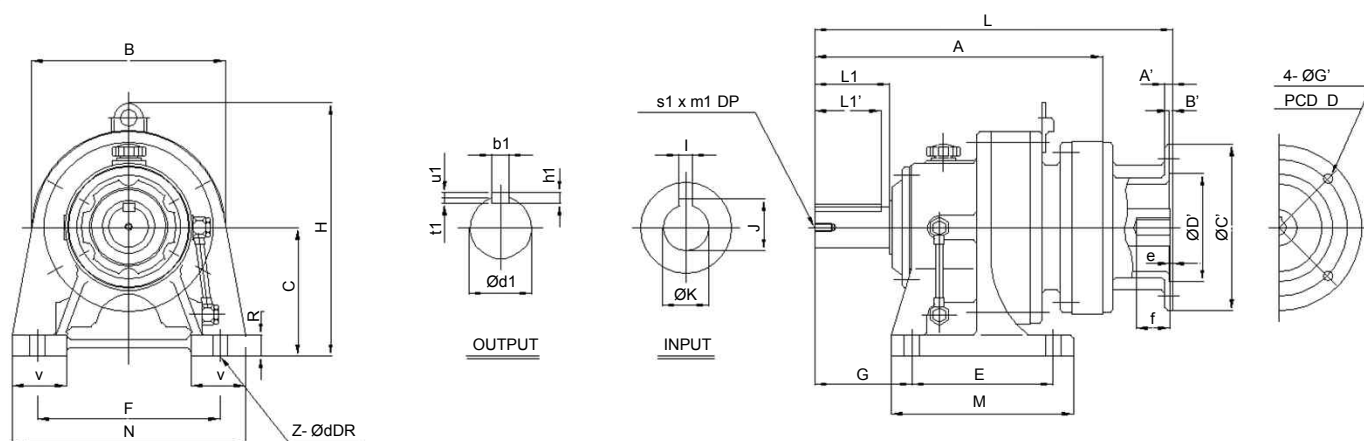
3) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MJH-Double reduction type

MJH -2116~2247



Frame	A	C	B	E	F	G	H	M	N	R	V	Z	d	Output shaft									
														d1	L1	L1'	b1	h1	t1	u1	s1	m1	
2116	788	325	575	500	630	291	703	600	690	45	125	4	26	120	210	200	32	18	11	7	M24	45	
2117	802	325	575	500	630	291	703	600	690	45	125	4	26	120	210	200	32	18	11	7	M24	45	
2246	788	325	575	500	630	291	703	600	690	45	125	4	26	140	210	200	36	20	12	8	M24	45	
2247	802	325	575	500	630	291	703	600	690	45	125	4	26	140	210	200	36	20	12	8	M24	45	

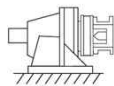
Model	Motor		Motor mounting flange dimension								Motor shaft input dimension					
	KW	POLE	L	D	D'	C'	B'	A'	G'	K	f	J	I	e	weight(KG)	
MJH 3-2116	2.2	4	900	215	180	250	6	18	15	28F6	62	31.3	8	3	583	
MJH 5-2116	3.7	4	900	215	180	250	6	18	15	28F6	62	31.3	8	3	583	
MJH 8-2116	7.5	4	917	265	230	300	6	18	15	38F7	78	41.3	10	4	588	
MJH10-2116	5.5	4	917	265	230	300	6	18	15	38F7	78	41.3	10	4	588	
MJH 8-2117	5.5	4	949	265	230	300	6	22	15	38F7	78	41.3	10	4	590	
MJH10-2117	7.5	4	949	265	230	300	6	22	15	38F7	78	41.3	10	4	590	
MJH15-2117	11	4	980	300	250	350	6	22	19	42F7	98	45.3	12	15	603	
MJH20-2117	15	4	980	300	250	350	6	22	19	42F7	98	45.3	12	15	603	
MJH 5-2246	3.7	4	900	215	180	250	6	18	15	24F6	62	31.3	8	3	593	
MJH 8-2246	5.5	4	917	265	230	300	6	18	15	38F7	78	41.3	10	4	598	
MJH10-2246	7.5	4	917	265	230	300	6	18	15	38F7	78	41.3	10	4	598	
MJH20-2247	15	4	980	300	250	350	6	22	19	42F7	98	45.3	12	15	613	

Note 1) Applied h6 allowance level for output shaft and input shaft dimension.

2) Applied parallel key (KS B 1311-84) dimension.

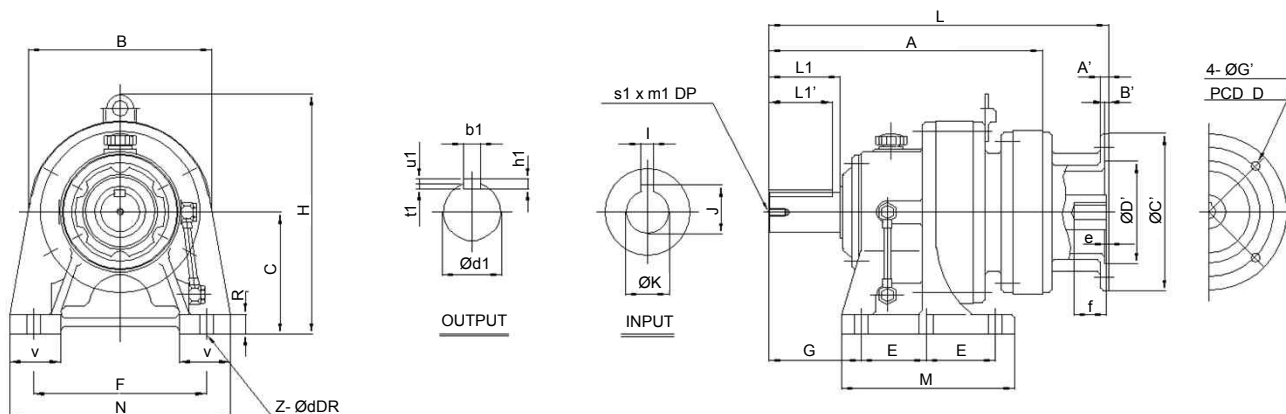
3) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MJH-Double reduction type

MJH ☐ -2128~2258



Frame	A	C	B	E	F	G	H	M	N	R	V	Z	d	Output shaft								
														d1	L1	L1'	b1	h1	t1	u1	s1	m1
2128	1020	420	720	330	800	372	890	810	880	50	143	6	39	140	250	245	36	20	12	8	M30	52
2258	1020	420	720	330	800	372	890	810	880	50	143	6	39	160	250	245	40	22	13	9	M30	52

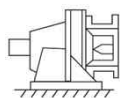
Model	Motor		Motor mounting flange dimension							Motor shaft input dimension					
	KW	POLE	L	D	D'	C'	B'	A'	G'	K	f	J	I	e	weight(KG)
MJH 8-2128	5.5	4	1162	265	230	300	6	20	15	38F7	78	41.3	10	4	1212
MJH10-2128	7.5	4	1162	265	230	300	6	20	15	38F7	78	41.3	10	4	1212
MJH15-2128	11	4	1192	300	250	350	6	22	19	42F7	98	45.3	12	15	1220
MJH20-2128	15	4	1192	300	250	350	6	22	19	42F7	98	45.3	12	15	1220
MJH10-2258	7.5	4	1162	265	230	300	6	20	15	38F7	78	41.3	10	4	1227
MJH15-2258	11	4	1192	300	250	350	6	22	19	42F7	98	45.3	12	15	1235
MJH20-2258	15	4	1192	300	250	350	6	22	19	42F7	98	45.3	12	15	1235

Note 1) Applied h6 allowance level for output shaft and input shaft dimension.

2) Applied parallel key (KS B 1311-84) dimension.

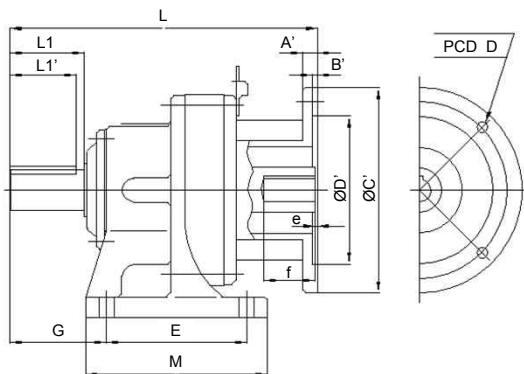
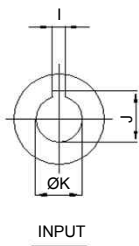
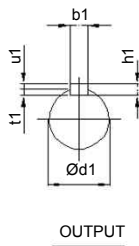
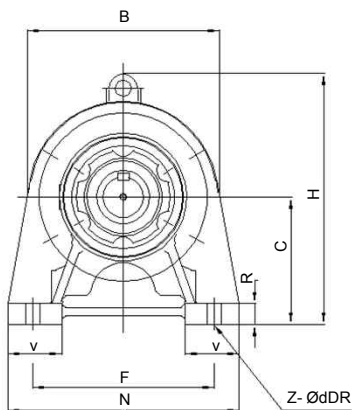
3) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MJHS-Single reduction type

MJHS-102~103



Frame	C	B	E	F	G	H	M	N	R	V	Z	d	Output shaft						
													d1	L1	L1'	b1	h1	t1	u1
102	100	162	90	150	60	220	135	180	12	40	4	13	28	35	30	8	7	4	3
103	120	208	115	190	82	270	155	230	15	55	4	14	38	55	50	10	8	5	3

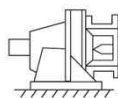
Model	Motor		Motor mounting flange dimension							Motor shaft input dimension					
	KW	POLE	L	D	D'	C'	B'	A'	G'	K	f	J	I	e	weight(KG)
MJHS02-102	0.2	4	237	130	110	160	5	10	10	14F6	41	16.3	5	3	20
MJHS05-102	0.4	4	237	165	130	200	5	10	12	19F6	41	21.8	6	3	20
MJHS 1-102	0.75	4	237	165	130	200	5	10	12	19F6	41	21.8	6	3	21
MJHS05-103	0.4	4	273	165	130	200	5	10	12	19F6	41	21.8	6	3	30
MJHS 1-103	0.75	4	273	165	130	200	5	10	12	19F6	41	21.8	6	3	31
MJHS 2-103	1.5	4	284	165	130	200	5	12	12	24F6	52	27.3	8	3	31
MJHS 3-103	2.2	4	294	215	180	250	6	15	15	28F6	62	31.3	8	3	32

Note 1) Applied h6 allowance level for output shaft and input shaft dimension.

2) Applied parallel key (KS B 1311-84) dimension.

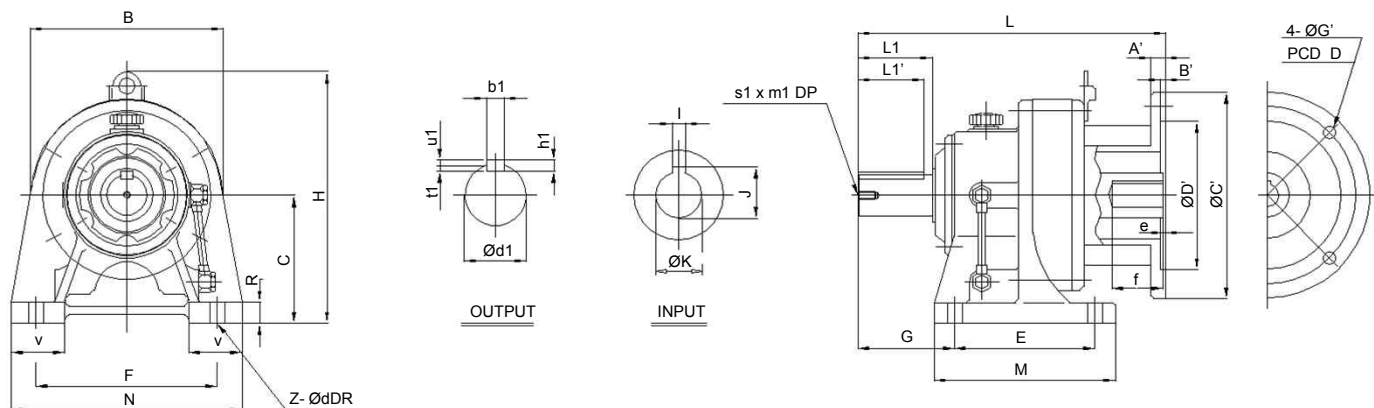
3) Dimensions can be changed without notice.

Case mount							Base mount				Flange mount		
LP		Direct		Adapter			LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MJHS-Single reduction type

MJHS ☐ -104~106



Frame	C	B	E	F	G	H	M	N	R	V	Z	d	Output shaft								
													d1	L1	L1'	b1	h1	t1	u1	s1	m1
104	150	232	145	290	100	300	195	330	22	65	4	18	50	70	65	14	9	5.5	3.5	M10	20
105	150	232	145	290	120	300	195	330	22	65	4	18	50	90	80	14	9	5.5	3.5	M10	20
106	160	307	150	370	139	354	238	410	25	75	4	18	60	90	80	18	11	7	4	M10	20

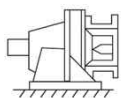
Model	Motor		Motor mounting flange dimension							Motor shaft input dimension					
	KW	POLE	L	D	D'	C'	B'	A'	G'	K	f	J	I	e	weight(KG)
MJHS 1-104	0.75	4	332	165	130	200	5	15	12	19F6	41	21.8	6	3	49
MJHS 2-104	1.5	4	343	165	130	200	5	15	12	24F6	52	27.3	8	3	49
MJHS 3-104	2.2	4	353	215	180	250	6	18	15	28F6	62	31.3	8	3	51
MJHS 5-104	3.7	4	353	215	180	250	6	18	15	28F6	62	31.3	8	3	51
MJHS 2-105	1.5	4	363	165	130	200	5	15	12	24F6	52	27.3	8	3	51
MJHS 3-105	2.2	4	373	215	180	250	6	18	15	28F6	62	31.3	8	3	53
MJHS 5-105	3.7	4	373	215	180	250	6	18	15	28F6	62	31.3	8	3	53
MJHS 3-106	2.2	4	420	215	180	250	6	18	15	28F6	62	31.3	8	3	85
MJHS 5-106	3.7	4	420	215	180	250	6	18	15	28F6	62	31.3	8	3	86
MJHS 8-106	5.5	4	437	265	230	300	6	18	15	38F7	78	41.3	10	4	93
MJHS10-106	7.5	4	437	265	230	300	6	18	15	38F7	78	41.3	10	4	95

Note 1) Applied h6 allowance level for output shaft and input shaft dimension.

2) Applied parallel key (KS B 1311-84) dimension.

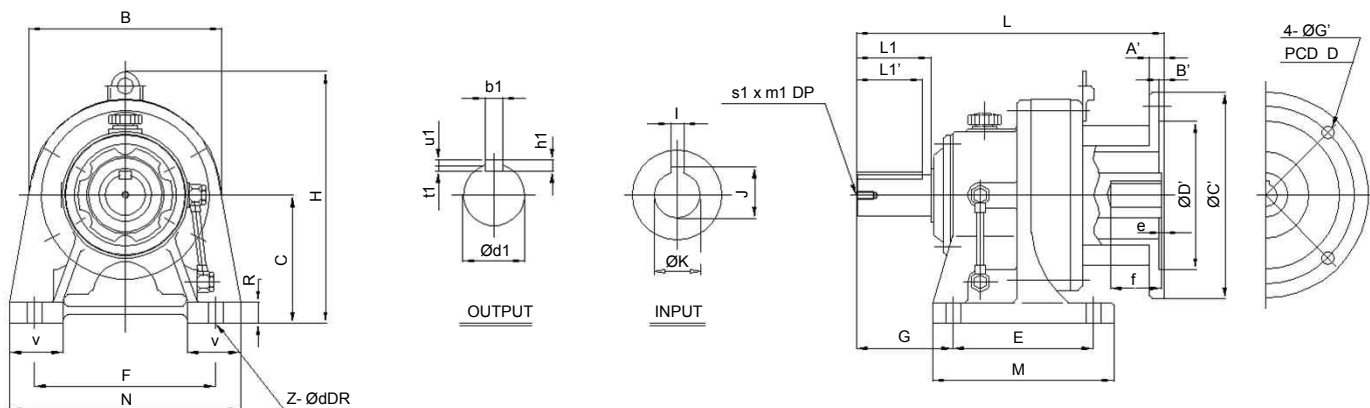
3) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MJHS-Single reduction type

MJHS □ -107~110



Frame	C	B	E	F	G	H	M	N	R	V	Z	d	Output shaft								
													d1	L1	L1'	b1	h1	t1	u1	s1	m1
107	200	340	275	380	125	424	335	430	30	80	4	22	70	90	85	20	12	7.5	4.5	M12	25
108	220	370	320	420	145	453	380	470	30	85	4	22	80	110	100	22	14	9	5	M12	25
109	250	430	380	480	170	533	440	530	35	90	4	26	95	135	130	25	14	9	5	M20	35
110	265	485	395	480	210	575	475	580	40	110	4	26	110	165	160	28	16	10	6	M20	35

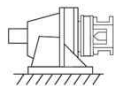
Model	Motor		Motor mounting flange dimension							Motor shaft input dimension					
	KW	POLE	L	D	D'	C'	B'	A'	G'	K	f	J	I	e	weight(KG)
MJHS 5-107	3.7	4	469	215	180	250	6	18	15	28F6	62	31.3	8	3	122
MJHS 8-107	5.5	4	499	265	230	300	6	22	15	38F7	78	41.3	10	4	128
MJHS10-107	7.5	4	499	265	230	300	6	22	15	38F7	78	41.3	10	4	128
MJHS15-107	11	4	530	300	250	350	6	22	19	42F7	98	45.3	12	15	140
MJHS20-107	15	4	530	300	250	350	6	22	19	42F7	98	45.3	12	15	140
MJHS 8-108	5.5	4	530	265	230	300	6	20	15	38F7	78	41.3	10	4	173
MJHS10-108	7.5	4	530	265	230	300	6	20	15	38F7	78	41.3	10	4	173
MJHS15-108	11	4	561	300	250	350	6	22	19	42F7	98	45.3	12	15	182
MJHS20-108	15	4	561	300	250	350	6	22	19	42F7	98	45.3	12	15	182
MJHS10-109	7.5	4	608	265	230	300	6	20	15	38F7	78	41.3	10	4	286
MJHS15-109	11	4	639	300	250	350	6	22	19	42F7	98	45.3	12	15	298
MJHS20-109	15	4	639	300	250	350	6	22	19	42F7	98	45.3	12	15	298
MJHS30-109	22	4	639	350	300	400	6	22	19	48F7	98	51.8	14	15	305
MJHS15-110	11	4	708	300	250	350	6	25	19	42F7	95	45.3	12	20	414
MJHS20-110	15	4	708	300	250	350	6	25	19	42F7	95	45.3	12	20	414
MJHS30-110	22	4	708	350	300	400	6	25	19	48F7	95	51.8	14	20	430
MJHS40-110	30	4	708	350	300	400	6	25	19	55F7	95	60	16	20	430

Note 1) Applied h6 allowance level for output shaft and input shaft dimension.

2) Applied parallel key (KS B 1311-84) dimension.

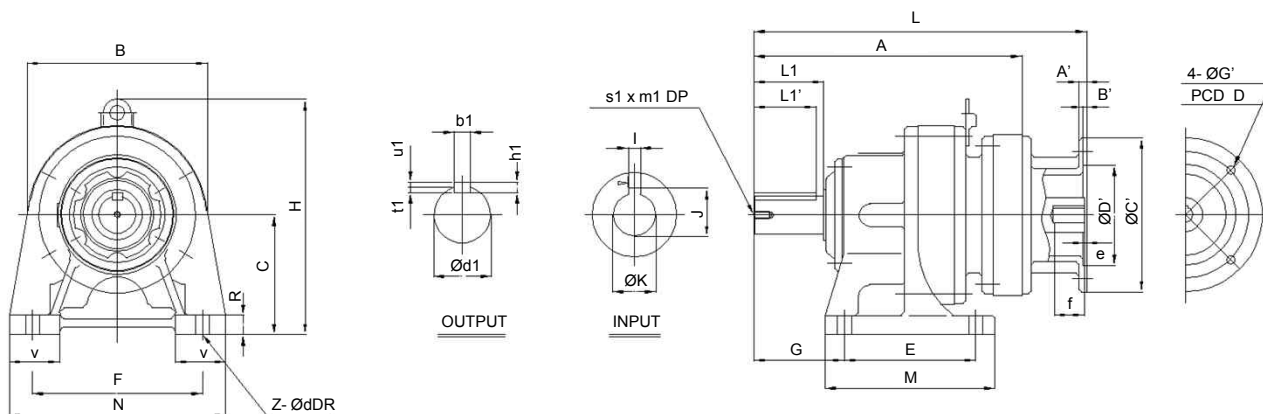
3) Dimensions can be changed without notice.

Case mount							Base mount				Flange mount		
LP		Direct		Adapter			LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MJHS-Double reduction type

MJHS □ -232~282



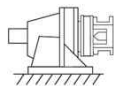
Frame	A	B	C	E	F	G	H	M	N	R	V	Z	d	Output shaft									
														d1	L1	L1'	b1	h1	t1	u1	s1	m1	
232	265	208	120	115	190	82	270	155	230	15	55	4	14	38	55	50	10	8	5	3	-	-	
242	317	232	150	145	290	100	300	195	330	22	65	4	18	50	70	65	14	9	5.5	3.5	M10	20	
252	327	232	150	145	290	120	300	195	330	22	65	4	18	50	90	80	14	9	5.5	3.5	M10	20	
262	386	307	160	150	370	139	354	238	410	25	75	4	18	60	90	80	18	11	7	4	M10	20	
272	438	340	200	275	380	125	424	335	430	30	80	4	22	70	90	85	20	12	7.5	4.5	M12	25	
282	474	370	220	320	420	145	453	380	470	30	85	4	22	80	110	100	22	14	9	5	M12	25	
Model			Motor		Motor mounting flange dimension							Motor shaft input dimension											
			KW	POLE	L	D	D'	C'	B'	A'	G'	K	f	J	I	e	weight(KG)						
MJHS02-232			0.2	4	346	130	110	160	5	10	10	14F6	41	16.3	5	3	42						
MJHS05-232			0.4	4	346	165	130	200	5	10	12	19F6	41	21.8	6	3	42						
MJHS 1-232			0.75	4	346	165	130	200	5	10	12	19F6	41	21.8	6	3	43						
MJHS02-242			0.2	4	398	130	110	160	5	10	10	14F6	41	16.3	5	3	55						
MJHS05-242			0.4	4	398	165	130	200	5	10	12	19F6	41	21.8	6	3	55						
MJHS02-252			0.2	4	418	130	110	160	5	10	10	14F6	41	16.3	5	3	57						
MJHS05-252			0.4	4	418	165	130	200	5	10	12	19F6	41	21.8	6	3	57						
MJHS02-262			0.2	4	467	130	110	160	5	10	10	14F6	41	16.3	5	3	96						
MJHS05-262			0.4	4	467	165	130	200	5	10	12	19F6	41	21.8	6	3	96						
MJHS02-272			0.2	4	519	130	110	160	5	10	12	14F6	41	16.3	5	3	131						
MJHS05-272			0.4	4	519	165	130	200	5	10	12	19F6	41	21.8	6	3	131						
MJHS05-282			0.4	4	555	165	130	200	5	10	12	19F6	41	21.8	6	3	175						

Note 1) Applied h6 allowance level for output shaft and input shaft dimension.

2) Applied parallel key (KS B 1311-84) dimension.

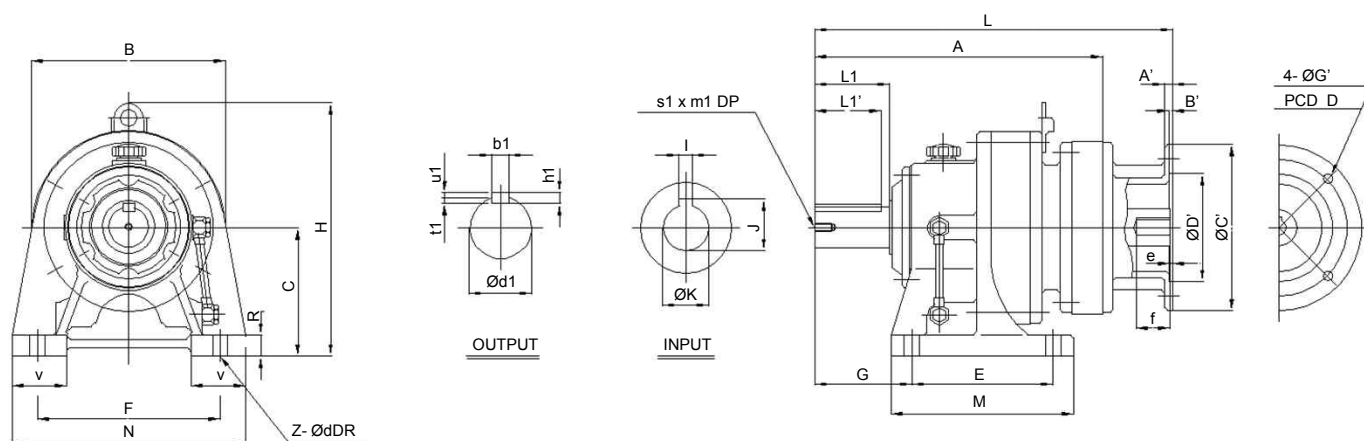
3) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MJHS-Double reduction type

MJHS -243~284



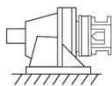
Frame	A	B	C	E	F	G	H	M	N	R	V	Z	d	Output shaft									
														d1	L1	L1'	b1	h1	t1	u1	s1	m1	
243	327	232	150	145	290	100	300	195	330	22	65	4	18	50	70	65	14	9	5.5	3.5	M10	20	
253	347	232	150	145	290	120	300	195	330	22	65	4	18	50	90	80	14	9	5.5	3.5	M10	20	
263	392	307	160	150	370	139	354	238	410	25	75	4	18	60	90	80	18	11	7	4	M10	20	
273	439	340	200	275	380	125	424	335	430	30	80	4	22	70	90	85	20	12	7.5	4.5	M12	25	
274	454	340	200	275	380	125	424	335	430	30	80	4	22	70	90	85	20	12	7.5	4.5	M12	25	
284	496	370	220	320	420	145	453	380	470	30	85	4	22	80	110	100	22	14	9	5	M12	25	
Model			Motor		Motor mounting flange dimension							Motor shaft input dimension											
			KW	POLE	L	D	D'	C'	B'	A'	G'	K	f	J	I	e	weight(KG)						
MJHS 1-243			0.75	4	411	165	130	200	5	10	12	19F6	41	21.8	6	3	59						
MJHS 2-243			1.5	4	422	165	130	200	6	10	12	24F6	52	27.3	8	3	59						
MJHS 1-253			0.75	4	431	165	130	200	5	10	12	19F6	41	21.8	6	3	61						
MJHS05-263			0.4	4	476	165	130	200	5	10	12	19F6	41	21.8	6	3	103						
MJHS 1-263			0.75	4	476	165	130	200	5	10	12	19F6	41	21.8	6	3	104						
MJHS 2-263			1.5	4	487	165	130	200	5	12	12	24F6	52	27.3	8	3	104						
MJHS 3-263			2.2	4	497	215	180	250	6	15	15	28F6	62	31.3	8	3	105						
MJHS 1-273			0.75	4	523	165	130	200	5	10	12	19F6	41	21.8	6	3	139						
MJHS 2-273			1.5	4	534	165	130	200	5	12	12	24F6	52	27.3	8	3	139						
MJHS 3-273			2.2	4	544	215	180	250	6	15	15	28F6	62	31.3	8	3	140						
MJHS 5-274			3.7	4	568	215	180	250	6	18	15	28F6	62	31.3	8	3	155						
MJHS 1-284			0.75	4	589	165	130	200	5	15	12	19F6	41	21.8	6	3	199						
MJHS 2-284			1.5	4	600	165	130	200	5	15	12	24F6	52	27.3	8	3	199						
MJHS 3-284			2.2	4	610	215	180	250	6	18	15	28F6	62	31.3	8	3	201						
MJHS 5-284			3.7	4	610	215	180	250	6	18	15	28F6	62	31.3	8	3	201						

Note 1) Applied h6 allowance level for output shaft and input shaft dimension.

2) Applied parallel key (KS B 1311-84) dimension.

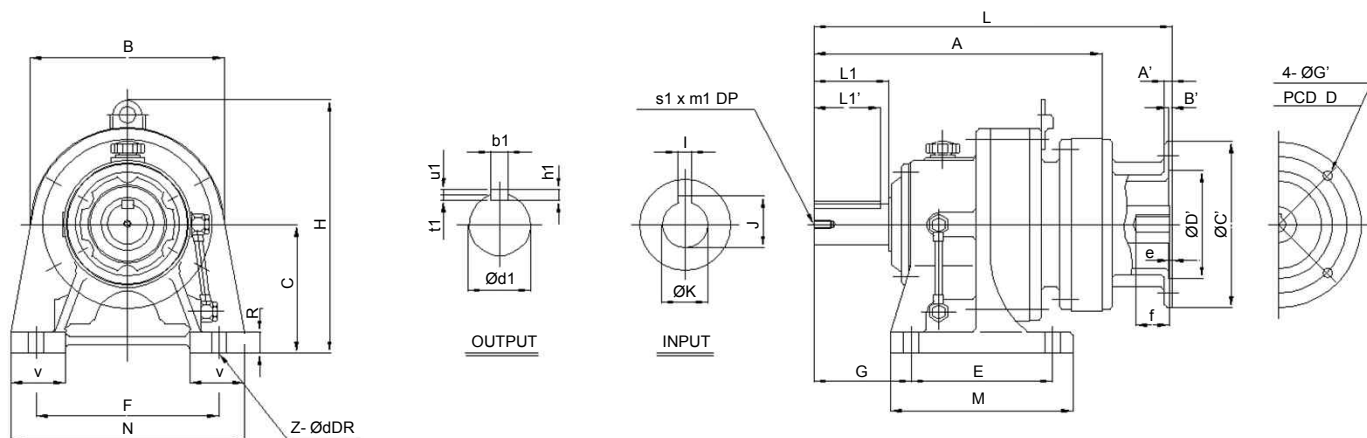
3) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MJHS-Double reduction type

MJHS □ -293~2106



Frame	A	B	C	E	F	G	H	M	N	R	V	Z	d	Output shaft								
														d1	L1	L1'	b1	h1	t1	u1	s1	m1
293	559	430	250	380	480	170	533	440	530	35	90	4	26	95	135	130	25	14	9	5	M20	35
294	572	430	250	380	480	170	533	440	530	35	90	4	26	95	135	130	25	14	9	5	M20	35
296	601	430	250	380	480	170	533	440	530	35	90	4	26	95	135	130	25	14	9	5	M20	35
2104	650	485	265	395	480	210	575	475	580	40	110	4	26	110	165	160	28	16	10	6	M20	35
2106	675	485	265	395	480	210	575	475	580	40	110	4	26	110	165	160	28	16	10	6	M20	35

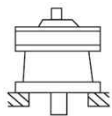
Model	Motor		Motor mounting flange dimension							Motor shaft input dimension					
	KW	POLE	L	D	D'	C'	B'	A'	G'	K	f	J	I	e	weight(KG)
MJHS 1-293	0.75	4	643	165	130	200	5	10	12	19F6	41	21.8	6	3	279
MJHS 2-293	1.5	4	654	165	130	200	5	12	12	24F6	52	27.3	8	3	279
MJHS 2-294	1.5	4	676	165	130	200	5	15	12	24F6	52	27.8	8	3	288
MJHS 3-294	2.2	4	686	215	180	250	6	18	15	28F6	62	31.3	8	3	290
MJHS 5-294	3.7	4	686	215	180	250	6	18	15	28F6	62	31.3	8	3	290
MJHS10-296	7.5	4	730	265	230	300	6	22	15	38F6	78	41.3	10	4	298
MJHS 2-2104	1.5	4	760	165	130	200	5	15	12	24F6	52	27.3	8	3	440
MJHS 3-2104	2.2	4	770	215	180	250	6	18	15	28F6	62	31.3	8	3	442
MJHS 5-2104	3.7	4	770	215	180	250	6	18	15	28F6	62	31.3	8	3	442
MJHS 8-2106	5.5	4	818	265	230	300	6	22	15	38F6	78	41.3	10	4	449
MJHS10-2106	7.5	4	818	265	230	300	6	22	15	38F6	78	41.3	10	4	449

Note 1) Applied h6 allowance level for output shaft and input shaft dimension.

2) Applied parallel key (KS B 1311-84) dimension.

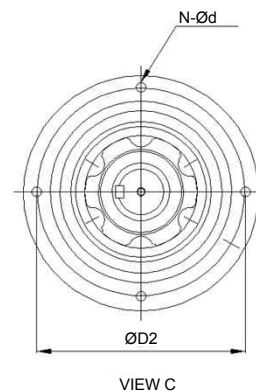
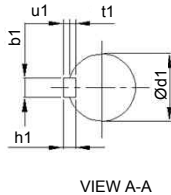
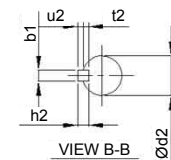
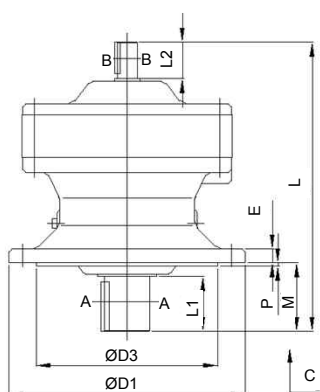
3) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MSV-Single reduction type

MSV-102~103



Frame	L	D1	D2	D3	M	E	P	N	d	weight (KG)
102	208	160	134	110	48	9	3	4	11	13
103	259	210	180	140	69	13	4	6	11	20

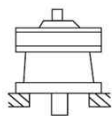
Model	Output shaft dimension						Input shaft dimension					
	d1	L1	b1	h1	t1	u1	d2	L2	b2	h2	t2	u2
MSV-102	28	35	8	7	4	3	15	25	5	5	3	2
MSV-103	38	55	10	8	5	3	18	35	6	6	3.5	2.5

Note 1) Applied h6 allowance level for output shaft and input shaft dimension.

2) Applied parallel key (KS B 1311-84) dimension.

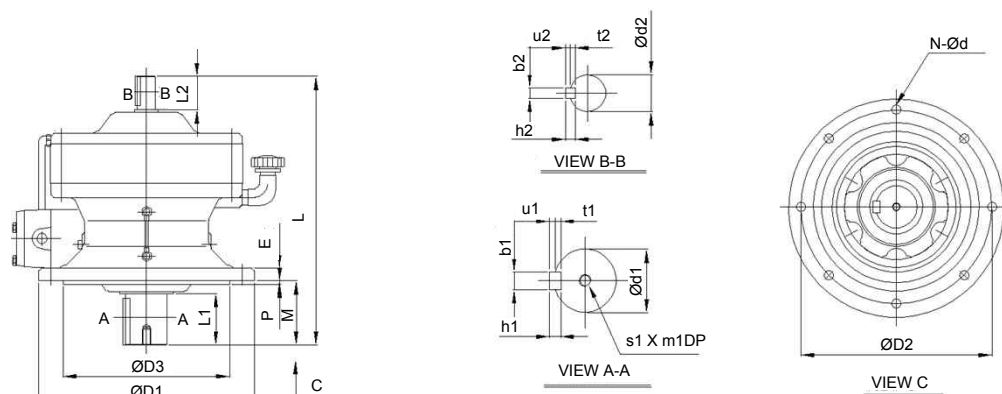
3) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MSV-Single reduction type

MSV-104~125



Frame	L	D1	D2	D3	M	E	P	N	d	X	Y	weight (KG)
104	320	260	230	200	76	15	4	6	11	146	186	39
105	340	260	230	200	96	15	4	6	11	146	186	40
106	413	340	310	270	89	20	4	6	11	183	223	83
107	477	400	360	316	94	22	4	8	14	200	240	110
108	527	430	390	345	110	22	5	8	18	215	255	130
109	620	490	450	400	145	30	6	12	18	245	285	205
110	740	580	520	455	190	35	8	12	22	282	322	345
122	740	580	520	455	190	35	8	12	22	282	322	365
111	851	650	590	520	242	40	10	12	22	317	357	505
124	851	650	590	520	242	40	10	12	22	317	357	550
112	1110	880	800	680	252	50	10	12	33	390	440	1020
125	1110	880	800	680	252	50	10	12	33	390	440	1050

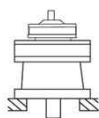
Model	Output shaft dimension								Input shaft dimension					
	d1	L1	b1	h1	t1	u1	s1	m1	d2	L2	b2	h2	t2	u2
MSV-104	50	61	14	9	5.5	3.5	M10	20	22	40	6	6	3.5	2.5
MSV-105	50	81	14	9	5.5	3.5	M10	20	22	40	6	6	3.5	2.5
MSV-106	60	80	18	11	7	4	M10	20	30	64	8	7	4	3
MSV-107	70	84	20	12	7.5	4.5	M12	25	35	72	10	8	5	3
MSV-108	80	100	22	14	9	5	M12	25	40	82	12	8	5	3
MSV-109	95	125	25	14	9	5	M20	35	45	92	14	9	5.5	3.5
MSV-110	110	165	28	16	10	6	M20	35	50	102	14	9	5.5	3.5
MSV-122	120	165	32	18	11	7	M20	35	55	102	16	10	6	4
MSV-111	120	202	32	18	11	7	M24	45	55	107	16	10	6	4
MSV-124	140	202	36	20	12	8	M24	45	65	107	18	11	7	4
MSV-112	140	245	36	20	12	8	M30	52	70	144	18	11	7	4
MSV-125	160	245	40	22	13	9	M30	52	80	144	22	14	9	5

Note 1) Applied h6 allowance level for output shaft and input shaft dimension.

2) Applied parallel key (KS B 1311-84) dimension.

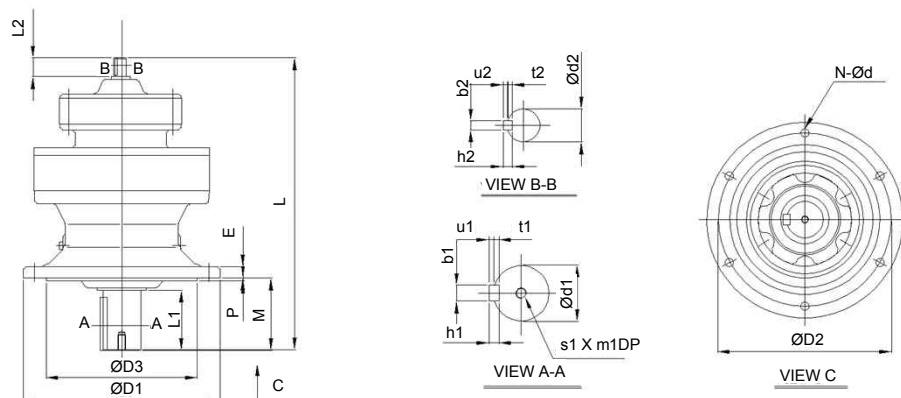
3) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MSV-Double reduction type

MSV-232~282



Frame	L	D1	D2	D3	M	E	P	N	d	weight (KG)
232	317	210	180	140	69	13	4	6	11	35
242	369	260	230	200	76	15	4	6	11	46
252	389	260	230	200	96	15	4	6	11	47
262	438	340	310	270	89	20	4	6	11	92
272	490	400	360	316	94	22	5	8	14	130
282	526	430	390	345	110	22	5	8	18	150

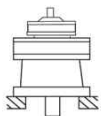
Model	Output shaft dimension								Input shaft dimension					
	d1	L1	b1	h1	t1	u1	s1	m1	d2	L2	b2	h2	t2	u2
MSV-232	38	55	10	8	5	3	-	-	15	25	5	5	3	2
MSV-242	50	61	14	9	5.5	3.5	M10	20	15	25	5	5	3	2
MSV-252	50	81	14	9	5.5	3.5	M10	20	15	25	5	5	3	2
MSV-262	60	80	18	11	7	4	M10	20	15	25	5	5	3	2
MSV-272	70	84	20	12	7.5	4.5	M12	25	15	25	5	5	3	2
MSV-282	80	100	22	14	9	5	M12	25	15	25	5	5	3	2

Note 1) Applied h6 allowance level for output shaft and input shaft dimension.

2) Applied parallel key (KS B 1311-84) dimension.

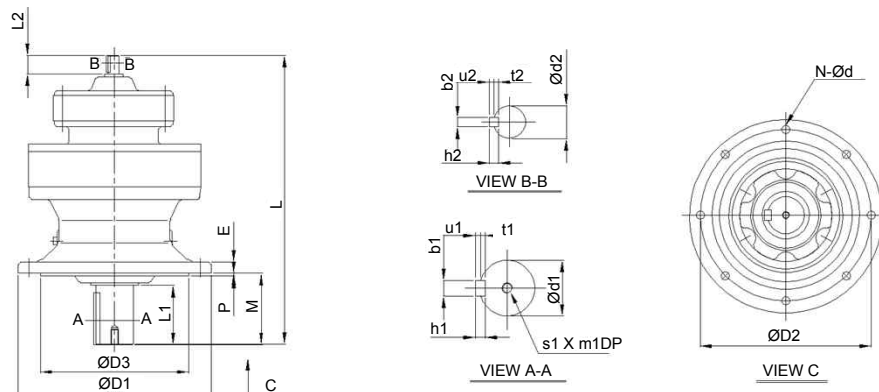
3) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MSV-Double reduction type

MSV-243~296



Frame	L	D1	D2	D3	M	E	P	N	d	weight (KG)
243	397	260	230	200	76	15	4	6	11	49
253	417	260	230	200	96	15	4	6	11	50
263	462	340	310	270	89	20	4	6	11	96
273	509	400	360	316	94	22	5	8	14	138
274	535	400	360	316	94	22	5	8	14	124
284	577	430	390	345	110	22	5	8	18	173
293	629	490	450	400	145	30	6	12	18	253
294	653	490	450	400	145	30	6	12	18	262
296	706	490	450	400	145	30	6	12	18	290

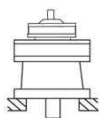
Model	Output shaft dimension								Input shaft dimension					
	d1	L1	b1	h1	t1	u1	s1	m1	d2	L2	b2	h2	t2	u2
MSV-243	50	61	14	9	5.5	3.5	M10	20	18	35	6	6	3.5	2.5
MSV-253	50	81	14	9	5.5	3.5	M10	20	18	35	6	6	3.5	2.5
MSV-263	60	80	18	11	7	4	M10	20	18	35	6	6	3.5	2.5
MSV-273	70	84	20	12	7.5	4.5	M12	25	18	35	6	6	3.5	2.5
MSV-274	70	84	20	12	7.5	4.5	M12	25	22	40	6	6	3.5	2.5
MSV-284	80	100	22	14	9	5	M12	25	22	40	6	6	3.5	2.5
MSV-293	95	125	25	14	9	5	M20	35	18	35	6	6	3.5	2.5
MSV-294	95	125	25	14	9	5	M20	35	22	40	6	6	3.5	2.5
MSV-296	95	125	25	14	9	5	M20	35	30	64	8	7	4	3

Note 1) Applied h6 allowance level for output shaft and input shaft dimension.

2) Applied parallel key (KS B 1311-84) dimension.

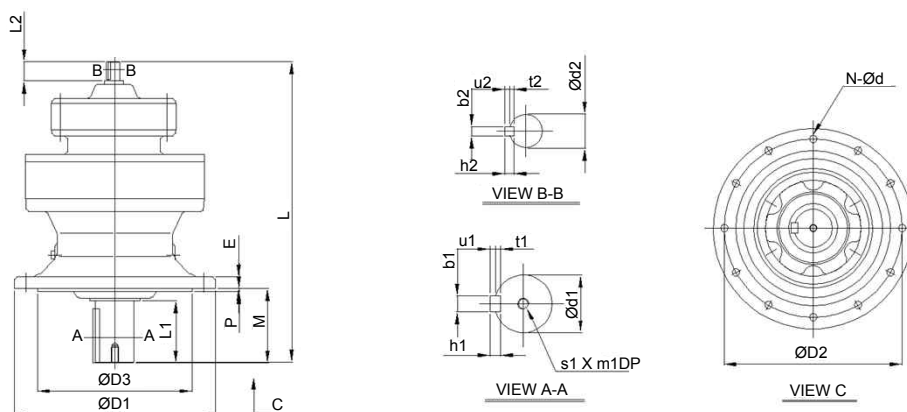
3) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MSV-Double reduction type

MSV-2104~2258



Frame	L	D1	D2	D3	M	E	P	N	d	weight (KG)
2104	763	580	520	455	190	35	8	12	22	406
2106	810	580	520	455	190	35	8	12	22	420
2224	763	580	520	455	190	35	8	12	22	414
2226	810	580	520	455	190	35	8	12	22	428
2116	893	650	590	520	242	40	10	12	22	516
2117	927	650	590	520	242	40	10	12	22	543
2246	893	650	590	520	242	40	10	12	22	544
2247	927	650	590	520	242	40	10	12	22	571
2128	1158	880	800	680	252	50	10	12	33	1095
2258	1158	880	800	680	252	50	10	12	33	1125

Model	Output shaft dimension								Input shaft dimension					
	d1	L1	b1	h1	t1	u1	s1	m1	d2	L2	b2	h2	t2	u2
MSV-2104	110	165	28	16	10	6	M20	35	22	40	6	6	3.5	2.5
MSV-2106	110	165	28	16	10	6	M20	35	30	64	8	7	4	3
MSV-2224	120	165	32	18	11	7	M20	35	22	40	6	6	3.5	2.5
MSV-2226	120	165	32	18	11	7	M20	35	30	64	8	7	4	3
MSV-2116	120	202	32	18	11	7	M24	45	30	64	8	7	4	3
MSV-2117	120	202	32	18	11	7	M24	45	35	72	10	8	5	3
MSV-2246	140	202	36	20	12	8	M24	45	30	64	8	7	4	3
MSV-2247	140	202	36	20	12	8	M24	45	35	72	10	8	5	3
MSV-2128	140	245	36	20	12	8	M30	52	40	82	12	8	5	3
MSV-2258	160	245	40	22	13	9	M30	52	40	82	12	8	5	3

Note 1) Applied h6 allowance level for output shaft and input shaft dimension.

2) Applied parallel key (KS B 1311-84) dimension.

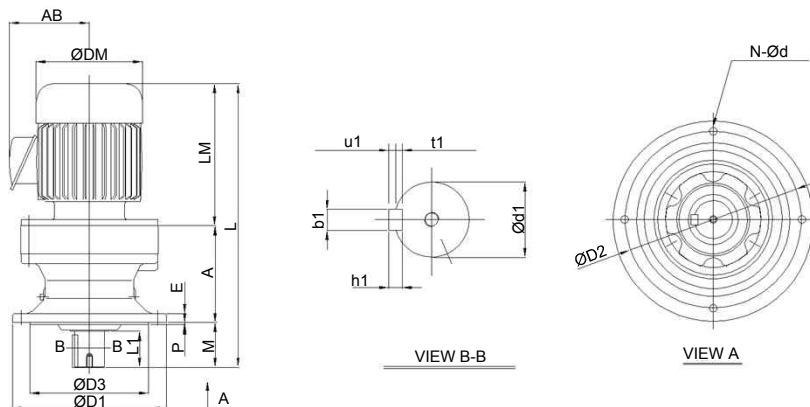
3) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMV-Single reduction type

MMV ☐ -102~103



Frame	A	D1	D2	D3	E	M	N	d	P	Output shaft					
										d1	L1	b1	h1	t1	u1
102	108	160	134	110	9	48	4	11	3	28	35	8	7	4	3
103	120	210	180	140	13	69	6	11	4	38	55	10	8	5	3

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMV02-102	0.2	4	361	205	148	124	20	461	305	148	124	23
MMV05-102	0.4	4	395	239	180	162	28	495	339	180	162	32
MMV 1-102	0.75	4	395	239	180	162	28	495	339	180	162	32
MMV05-103	0.4	4	432	243	180	162	34	532	343	180	162	38
MMV 1-103	0.75	4	432	243	180	162	34	532	343	180	162	38
MMV 2-103	1.5	4	477	288	199	178	44	577	388	199	178	49
MMV 3-103	2.2	4	481	292	220	199	53	581	392	220	199	58

Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

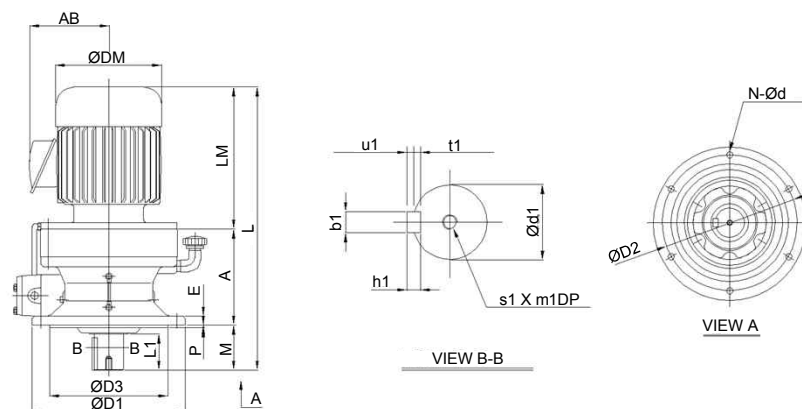
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMV-Single reduction type

MMV -104~106



Frame	A	D1	D2	D3	E	M	N	d	P	Output shaft							
										d1	L1	b1	h1	t1	u1	s1	m1
104	163	260	230	200	15	76	6	11	4	50	61	14	9	5.5	3.5	M10	20
105	163	260	230	200	15	76	6	11	4	50	81	14	9	5.5	3.5	M10	20
106	219	340	310	270	20	89	6	11	4	60	80	18	11	7	4	M10	20

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(K G)	L	LM	DM	AB	weight(K G)
MMV 1-104	0.75	4	479	240	180	162	52	579	340	180	162	56
MMV 2-104	1.5	4	521	282	199	178	61	621	382	199	178	66
MMV 3-104	2.2	4	537	298	220	199	69	637	398	220	199	77
MMV 5-104	3.7	4	549	310	244	216	78	679	440	244	216	87
MMV 8-104	5.5	4	599	360	284	236	98	729	490	284	236	109
MMV 2-105	1.5	4	541	282	199	178	62	641	382	199	178	66
MMV 3-105	2.2	4	557	298	220	199	70	657	398	220	199	75
MMV 5-105	3.7	4	569	310	244	216	79	699	440	244	216	88
MMV 8-105	5.5	4	619	360	284	236	99	749	490	284	236	110
MMV 3-106	2.2	4	600	292	220	199	112	700	392	220	199	120
MMV 5-106	3.7	4	612	304	244	216	119	742	434	244	216	128
MMV 8-106	5.5	4	663	355	284	236	135	793	485	284	236	146
MMV10-106	7.5	4	695	387	284	236	145	825	517	284	236	156
MMV15-106	11	4	761	453	337	301	196	891	583	337	301	211

Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

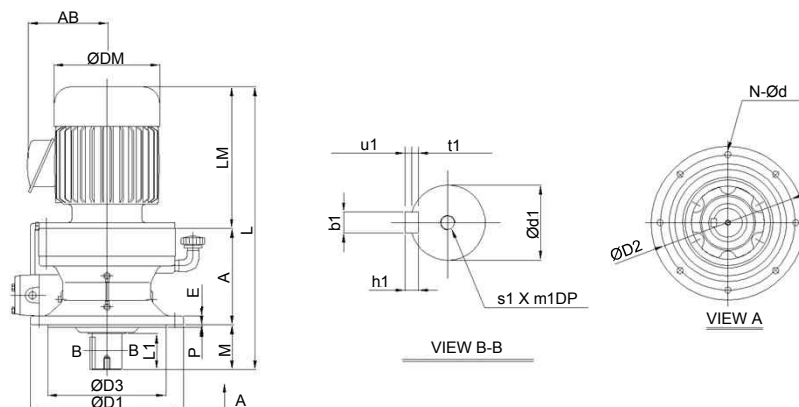
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMV-Single reduction type

MMV -107~108



Frame	A	D1	D2	D3	E	M	N	d	P	Output shaft							
										d1	L1	b1	h1	t1	u1	s1	m1
107	258	400	360	316	22	94	8	14	5	70	84	20	12	7.5	4.5	M12	25
108	279	430	390	345	22	110	8	18	5	80	100	22	14	9	5	M12	25

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMV 5-107	3.7	4	665	313	244	216	145	795	443	244	216	154
MMV 8-107	5.5	4	714	362	284	236	165	844	492	284	236	176
MMV10-107	7.5	4	746	394	284	236	178	876	524	284	236	189
MMV15-107	11	4	813	461	337	301	212	973	621	337	301	227
MMV20-107	15	4	851	499	337	301	235	1011	659	337	301	250
MMV 8-108	5.5	4	753	364	284	236	187	883	494	284	236	198
MMV10-108	7.5	4	785	396	284	236	202	915	526	284	236	213
MMV15-108	11	4	852	463	337	301	240	1012	623	337	301	265
MMV20-108	15	4	890	501	337	301	260	1050	661	337	301	275
MMV30-108	22	4	934	545	374	325	315	1094	705	374	325	336

Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

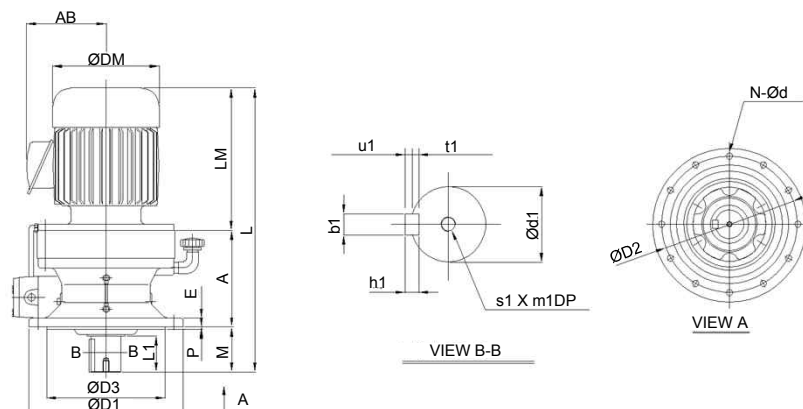
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMV-Single reduction type

MMV ☐ -109~122



Frame	A	D1	D2	D3	E	M	N	d	P	Output shaft							
										d1	L1	b1	h1	t1	u1	s1	m1
109	320	490	450	400	30	145	12	18	6	95	125	25	14	9	5	M20	35
110	380	580	520	455	35	190	12	22	8	110	165	28	16	10	6	M20	35
122	380	580	520	455	35	190	12	22	8	120	165	32	18	11	7	M20	35

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMV10-109	7.5	4	858	393	284	236	293	988	523	284	236	304
MMV15-109	11	4	931	466	337	301	330	1091	626	337	301	345
MMV20-109	15	4	967	502	337	301	347	1127	662	337	301	362
MMV30-109	22	4	1029	564	374	325	405	1187	724	374	325	426
MMV40-109	30	4	1075	610	374	316	459	1235	770	374	316	507
MMV15-110	11	4	1034	464	337	301	478	1194	624	337	301	493
MMV20-110	15	4	1072	502	337	301	495	1132	662	337	301	510
MMV30-110	22	4	1116	546	374	325	520	1276	706	374	325	541
MMV40-110	30	4	1162	592	374	316	613	1322	752	374	316	661
MMV50-110	37	4	1208	638	414	364	653	1368	798	414	364	713
MMV15-122	11	6	1034	464	337	301	478	1194	483	337	301	498
MMV20-122	15	6	1072	502	374	325	495	1132	500	374	325	515
MMV30-122	22	6	1116	546	374	316	520	1276	525	374	316	546
MMV40-122	30	6	1162	592	404	364	613	1322	618	404	364	666
MMV50-122	37	6	1208	638	404	364	653	1368	658	404	364	718

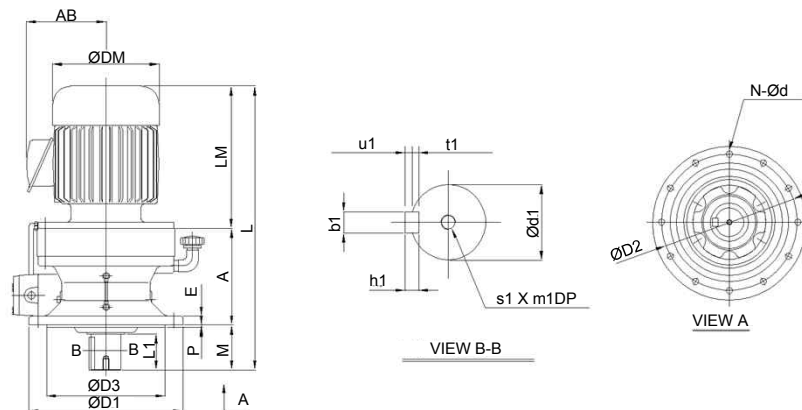
- Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.
2) Applied h6 allowance level for output shaft and input shaft dimension.
3) Applied parallel key (KS B 1311-84) dimension.
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMV-Single reduction type

MMV □ -111~124



Frame	A	D1	D2	D3	E	M	N	d	P	Output shaft							
										d1	L1	b1	h1	t1	u1	s1	m1
111	414	650	590	520	40	242	12	22	10	120	202	32	18	11	7	M24	45
124	414	650	590	520	40	242	12	22	10	140	202	36	20	12	8	M24	45

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMV20-111	15	6	1199	543	374	325	597	1359	703	374	325	618
MMV30-111	22	6	1246	590	374	316	703	1406	750	374	316	751
MMV40-111	30	6	1241	585	404	364	809	1401	745	404	364	857
MMV50-111	37	6	1241	585	404	364	853	1401	745	404	364	901
MMV60-111	45	6	1421	765	457	390	959	1601	945	457	390	1017
MMV75-111	55	6	1460	804	512	450	1006	1640	984	512	450	1064
MMV20-124	15	6	1199	543	374	325	612	1359	703	374	325	633
MMV30-124	22	6	1246	590	374	316	718	1406	750	374	316	766
MMV40-124	30	6	1241	585	404	364	824	1401	745	404	364	872
MMV50-124	37	6	1241	585	404	364	868	1401	745	404	364	916
MMV60-124	45	6	1421	765	457	390	974	1601	945	457	390	1032
MMV75-124	55	6	1460	804	512	450	1021	1640	984	512	450	1079

Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

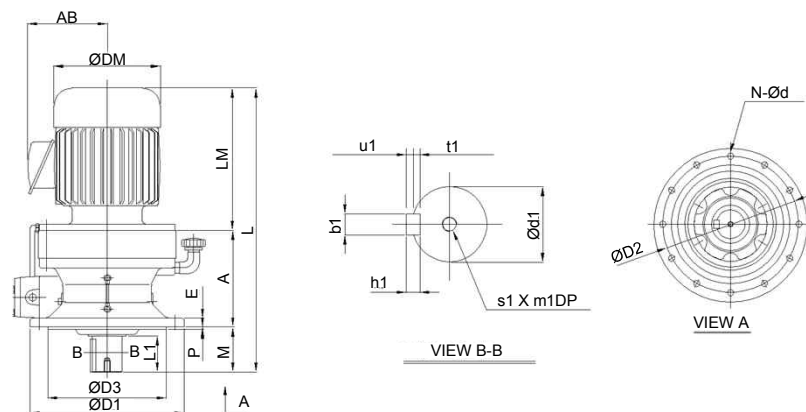
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMV-Single reduction type

MMV □ -112~125



Frame	A	D1	D2	D3	E	M	N	d	P	Output shaft							
										d1	L1	b1	h1	t1	u1	s1	m1
112	601	880	800	680	50	252	12	33	10	140	245	36	20	12	8	M30	52
125	601	880	800	680	50	252	12	33	10	160	245	40	22	13	9	M30	52

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMV30-112	22	6	1406	553	374	316	1240	1566	713	374	316	1288
MMV40-112	30	6	1493	640	404	364	1362	1653	800	404	364	1410
MMV50-112	37	6	1493	640	404	364	1362	1653	800	404	364	1366
MMV60-112	45	6	1623	770	457	390	1531	1803	90	457	390	1589
MMV75-112	55	6	1662	809	512	450	1567	1842	989	512	450	1625
MMV30-125	22	6	1493	640	374	316	1382	1653	800	374	316	1410
MMV40-125	30	6	1406	553	404	364	1382	1566	713	404	364	1432
MMV50-125	37	6	1493	640	404	364	1338	1653	800	404	364	1432
MMV60-125	45	6	1623	770	457	390	1551	1803	950	457	390	1609
MMV75-125	55	6	1662	809	512	450	1587	1842	989	512	450	1645

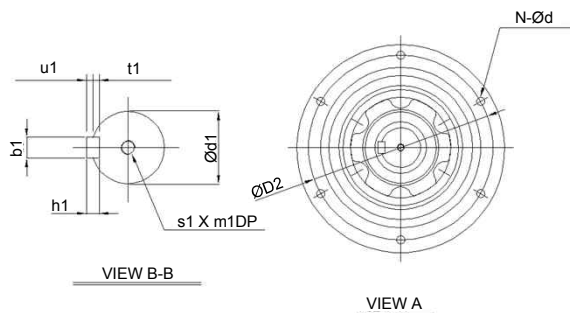
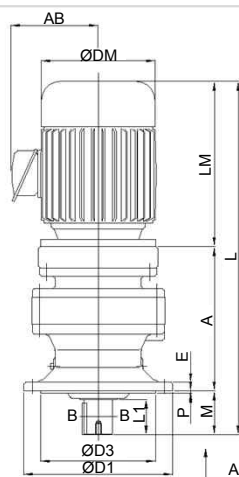
- Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.
2) Applied h6 allowance level for output shaft and input shaft dimension.
3) Applied parallel key (KS B 1311-84) dimension.
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMV-Double reduction type

MMV □ -232~282



Frame	A	D1	D2	D3	E	M	N	d	P	Output shaft							
										d1	L1	b1	h1	t1	u1	s1	m1
232	196	210	180	140	13	69	6	11	4	38	55	10	8	5	3	-	-
242	241	260	230	200	15	76	6	11	4	50	61	14	9	5.5	3.5	M10	20
252	241	260	230	200	15	96	6	11	4	50	81	14	9	5.5	3.5	M10	20
262	297	340	310	270	20	89	6	11	4	60	80	18	11	7	4	M10	20
272	344	400	360	316	22	94	8	14	5	70	84	20	12	7.5	4.5	M12	25
282	364	430	390	345	22	110	8	18	5	80	100	22	14	9	5	M12	25

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMV02-232	0.2	4	470	205	148	124	44	570	305	148	124	47
MMV05-232	0.4	4	504	239	180	162	52	604	339	180	162	56
MMV 1-232	0.75	4	504	239	180	162	52	604	339	180	162	56
MMV05-242	0.4	4	556	239	180	162	64	656	339	180	162	68
MMV 1-242	0.75	4	556	239	180	162	64	656	339	180	162	68
MMV05-252	0.4	4	576	239	180	162	63	676	335	180	162	67
MMV 1-252	0.75	4	576	239	180	162	69	676	339	180	162	73
MMV05-262	0.4	4	625	239	180	162	101	725	339	180	162	105
MMV 1-262	0.75	4	625	239	180	162	101	725	339	180	162	105
MMV 1-272	0.75	4	677	239	180	162	132	777	339	180	162	136
MMV 1-273	0.75	4	682	243	180	162	136	782	343	180	162	140
MMV05-282	0.4	4	713	239	180	162	156	813	339	180	162	161
MMV 1-282	0.75	4	713	239	180	162	156	813	339	180	162	161

Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

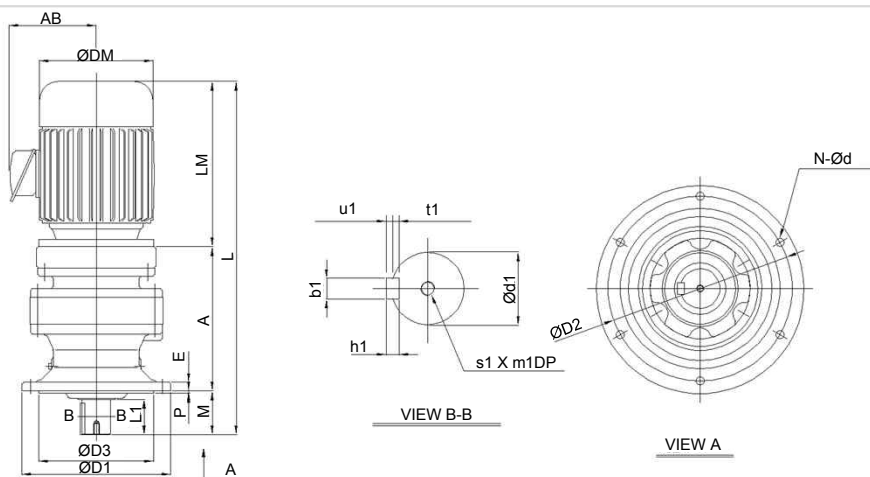
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMV-Double reduction type

MMV ☐ -243~263



Frame	A	D1	D2	D3	E	M	N	d	P	Output shaft							
										d1	L1	b1	h1	t1	u1	s1	m1
243	251	260	230	200	15	76	6	11	4	50	61	14	9	5.5	3.5	M10	20
253	251	260	230	200	15	96	6	11	4	50	81	14	9	5.5	3.5	M10	20
263	303	340	310	270	20	89	6	11	4	60	80	18	11	7	4	M10	20

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMV05-243	0.4	4	570	243	180	162	72	670	343	180	162	76
MMV 1-243	0.75	4	570	243	180	162	72	670	343	180	162	76
MMV 2-243	1	4	615	288	199	178	81	715	388	199	178	86
MMV05-253	0.4	4	590	243	180	162	73	690	343	180	162	77
MMV 1-253	0.75	4	590	243	180	162	73	690	343	180	162	77
MMV 2-253	1	4	635	288	199	178	82	735	388	199	178	87
MMV05-263	0.4	4	635	243	180	162	112	735	343	180	162	116
MMV 1-263	0.75	4	635	243	180	162	112	735	343	180	162	116
MMV 2-263	1	4	680	288	199	178	119	780	388	199	178	124
MMV 3-263	2.2	4	684	292	220	199	135	784	392	220	199	143

Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

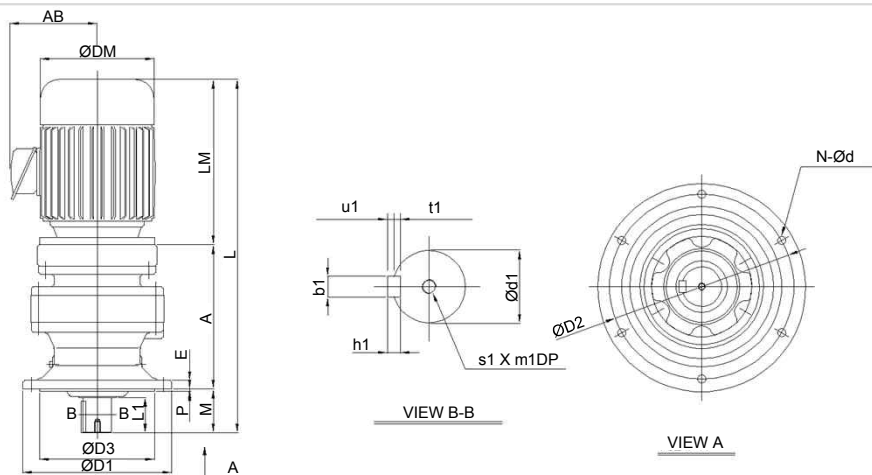
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMV-Double reduction type

MMV □-273~284



Frame	A	D1	D2	D3	E	M	N	d	P	Output shaft							
										d1	L1	b1	h1	t1	u1	s1	m1
273	345	400	360	316	22	94	8	14	5	70	84	20	12	7.5	4.5	M12	25
274	360	400	360	316	22	94	8	14	5	70	84	20	12	7.5	4.5	M12	25
284	386	430	390	345	22	110	8	18	5	80	100	22	14	9	5	M12	25

Model	Motor		Motor mounting						Brake mounting					
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)		
MMV 1-273	0.75	4	682	243	180	162	136	782	343	180	162	140		
MMV 2-273	1	4	727	288	199	178	152	827	388	199	178	157		
MMV 3-273	2.2	4	731	292	220	199	157	831	392	220	199	165		
MMV 5-274	3.7	4	764	310	244	216	175	894	440	244	216	186		
MMV 2-284	1.5	4	778	282	199	162	184	878	382	199	162	189		
MMV 3-284	2.2	4	794	298	220	178	190	894	398	220	178	198		
MMV 5-284	3.7	4	806	310	244	199	202	936	440	244	199	211		
MMV 8-284	5.5	4	856	360	284	216	221	986	490	284	216	232		

Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

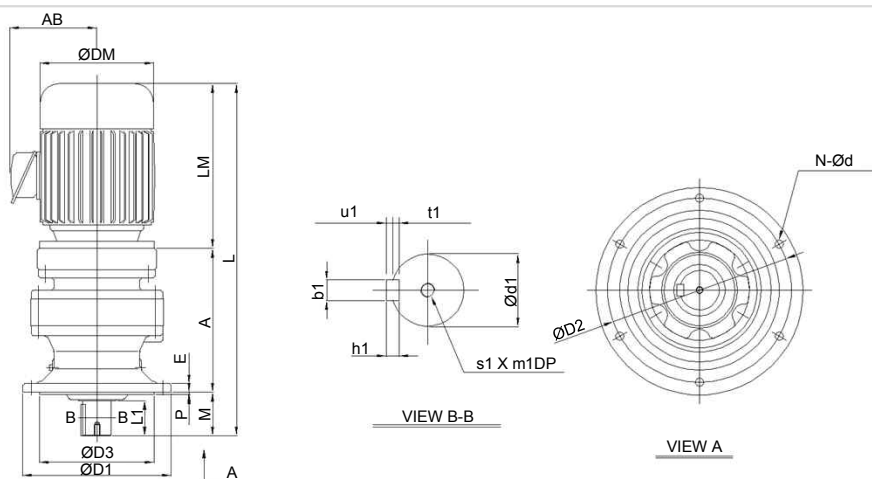
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMV-Double reduction type

MMV -293~296



Frame	A	D1	D2	D3	E	M	N	d	P	Output shaft							
										d1	L1	b1	h1	t1	u1	s1	m1
293	414	490	450	400	30	145	12	18	6	95	125	25	14	9	5	M20	35
294	427	490	450	400	30	145	12	18	6	95	125	25	14	9	5	M20	35
296	456	490	450	400	30	145	12	18	6	95	125	25	14	9	5	M20	35

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMV 1-293	0.75	4	802	243	180	162	260	902	343	180	180	264
MMV 2-293	1.5	4	847	288	199	178	268	947	388	199	199	273
MMV 3-293	2.2	4	851	292	220	199	276	951	392	220	220	284
MMV 3-294	2.2	4	870	298	220	199	280	970	398	220	220	288
MMV 5-294	3.7	4	882	310	244	216	287	1012	440	244	244	296
MMV 8-294	5.5	4	932	360	284	236	304	1062	490	284	284	315
MMV10-296	7.5	4	988	387	284	236	336	1118	517	284	284	347

Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

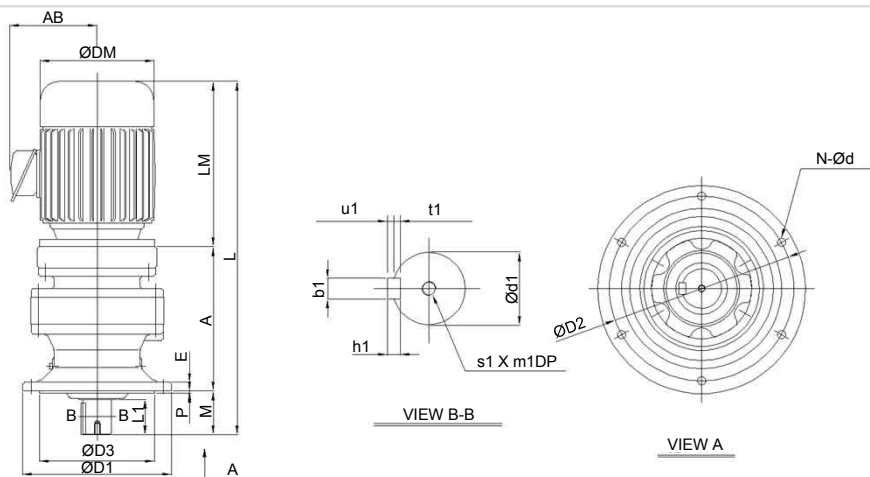
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMV-Double reduction type

MMV ☐ -2104~2226



Frame	A	D1	D2	D3	E	M	N	d	P	Output shaft							
										d1	L1	b1	h1	t1	u1	s1	m1
2104	492	580	520	455	35	190	12	22	8	110	165	28	16	10	6	M20	35
2106	515	580	520	455	35	190	12	22	8	110	165	28	16	10	6	M20	35
2224	492	580	520	455	35	190	12	22	8	120	165	32	18	11	7	M20	35
2226	515	580	520	455	35	190	12	22	8	120	165	32	18	11	7	M20	35

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMV 2-2104	1.5	4	946	282	199	178	413	1064	382	199	178	418
MMV 3-2104	2.2	4	980	298	220	199	421	1080	398	220	199	429
MMV 5-2104	3.7	4	992	310	244	216	428	1122	440	244	216	437
MMV 8-2104	5.5	4	1042	360	284	236	446	1172	490	284	236	457
MMV 8-2106	5.5	4	1060	335	284	236	453	1190	485	284	236	464
MMV10-2106	7.5	4	992	387	284	236	468	1222	440	284	236	437
MMV15-2106	11	4	1158	453	337	301	504	1318	613	337	301	519
MMV 2-2224	1.5	4	946	282	199	178	418	1064	382	199	178	423
MMV 3-2224	2.2	4	980	298	220	199	426	1080	398	220	199	434
MMV 5-2224	3.7	4	992	310	244	216	433	1122	440	244	216	442
MMV 8-2224	5.5	4	1042	360	284	236	451	1172	490	284	236	462
MMV 8-2226	5.5	4	1060	335	284	236	458	1190	485	284	236	469
MMV10-2226	7.5	4	992	387	284	236	473	1222	440	284	236	442
MMV15-2226	11	4	1158	453	337	301	509	1318	613	337	301	524

Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

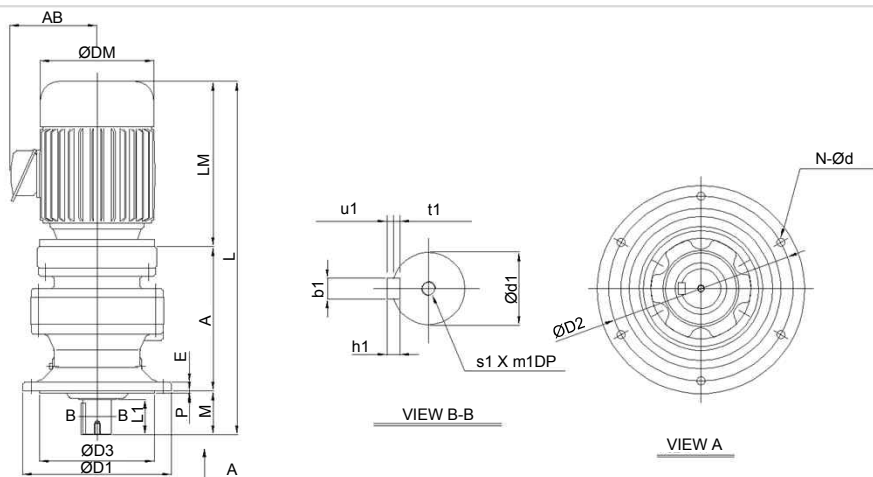
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMV-Double reduction type

MMV ☐ -2116~2247



Frame	A	D1	D2	D3	E	M	N	d	P	Output shaft							
										d1	L1	b1	h1	t1	u1	s1	m1
2116	546	650	590	520	40	242	12	22	10	120	202	32	18	11	7	M24	45
2117	560	650	590	520	40	242	12	22	10	120	202	32	18	11	7	M24	45
2246	546	650	590	520	40	242	12	22	10	140	202	36	20	12	8	M24	45
2247	560	650	590	520	40	242	12	22	10	140	202	36	20	12	8	M24	45

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMV 3-2116	2.2	4	1080	292	220	199	596	1180	392	220	199	574
MMV 5-2116	3.7	4	1092	304	244	216	573	1222	434	244	216	582
MMV 8-2116	5.5	4	1143	355	284	236	591	1273	485	284	236	602
MMV10-2116	7.5	4	1175	387	284	236	604	1305	517	284	236	615
MMV10-2117	7.5	4	1196	394	284	236	644	1326	524	284	236	655
MMV15-2117	11	4	1263	4461	337	301	683	1423	601	337	301	698
MMV 20-2117	1.5	4	1301	499	337	301	710	1471	659	337	301	725
MMV 5-2246	3.7	4	1092	304	244	216	613	1222	434	244	216	622
MMV 8-2246	5.5	4	1143	355	284	236	631	1273	485	284	236	642
MMV10-2246	7.5	4	1175	387	284	236	644	1305	517	284	236	655
MMV20-2247	11	4	1301	499	337	301	690	1461	659	337	301	705

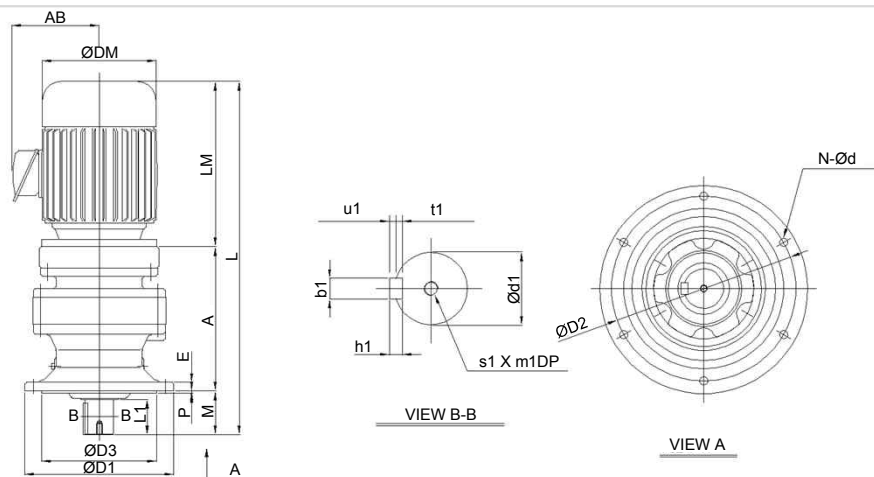
- Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.
2) Applied h6 allowance level for output shaft and input shaft dimension.
3) Applied parallel key (KS B 1311-84) dimension.
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMV-Double reduction type

MMV ☐ -2128~2258



Frame	A	D1	D2	D3	E	M	N	d	P	Output shaft							
										d1	L1	b1	h1	t1	u1	s1	m1
2128	768	880	800	680	50	252	12	33	10	140	245	36	20	12	8	M30	52
2258	768	880	800	680	50	252	12	33	10	160	245	40	22	13	9	M30	52

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMV 8-2128	5.5	4	1384	364	284	236	1150	1514	494	284	236	1161
MMV10-2128	7.5	4	1416	396	284	236	1163	1546	526	284	236	1174
MMV 15-2128	11	4	1483	463	337	301	1194	1643	623	337	301	1209
MMV20-2128	15	4	1521	501	337	301	119	1681	661	337	301	1238
MMV30-2128	22	4	1565	545	374	325	1281	1725	705	374	325	1302
MMV10-2258	7.5	4	1416	396	284	236	1228	1546	526	284	236	1239
MMV15-2258	11	4	1483	463	337	301	1259	1643	623	337	301	1299
MMV20-2258	15	4	1521	501	337	301	1284	1681	661	337	301	1299
MMV30-2258	22	4	1565	545	374	325	1346	1725	705	374	325	1367

Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

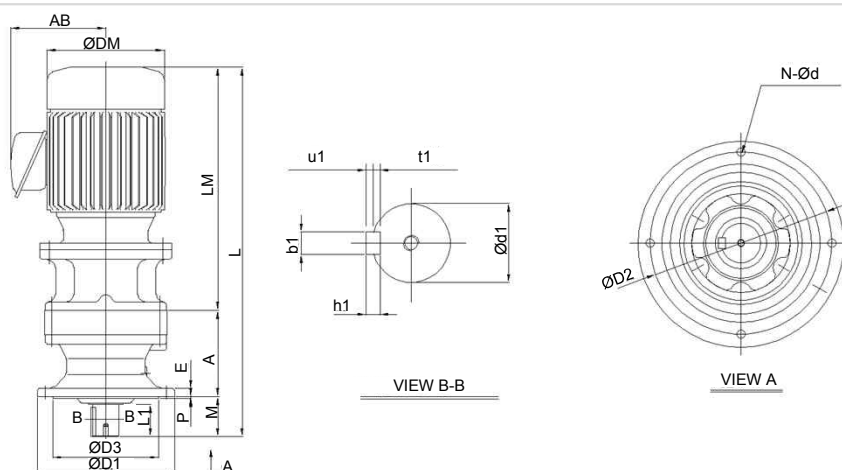
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMJV-Single reduction type

MMJV □ -102~103



Frame	A	M	E	P	D1	D2	D3	N	d	Output shaft					
										d1	L1	b1	h1	t1	u1
102	108	48	9	3	160	134	110	4	11	28	35	8	7	4	3
103	120	69	13	4	210	180	140	6	11	38	55	10	8	5	3

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMJV02-102	0.2	4	456	309	148	124	27	565	409	148	124	30
MMJV05-102	0.4	4	496	340	180	162	35	596	440	180	162	39
MMJV 1-102	0.75	4	496	340	180	162	35	596	440	180	162	39
MMJV05-103	0.4	4	532	343	180	162	36	632	443	180	162	40
MMJV 1-103	0.75	4	532	343	180	162	36	632	443	180	162	40
MMJV 2-103	1.5	4	594	405	199	178	57	694	505	199	178	62
MMJV 3-103	2.2	4	639	450	220	199	75	739	550	220	199	82

Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

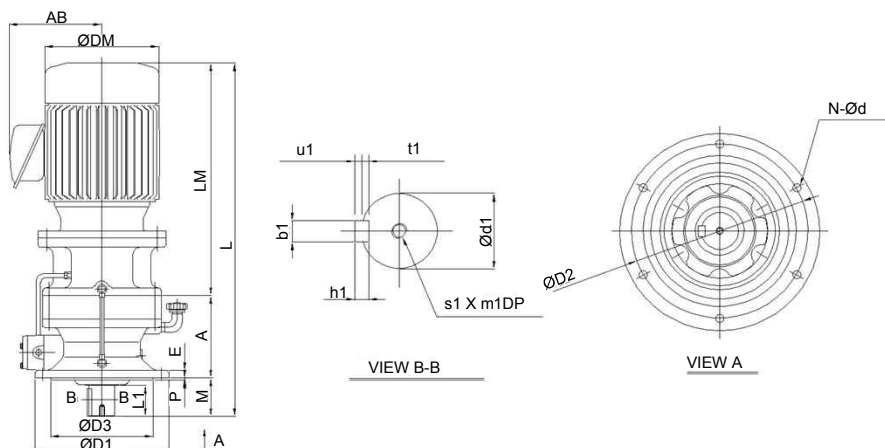
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMJV-Single reduction type

MMJV -104~107



Frame	A	M	E	P	D1	D2	D3	N	d	Output shaft							
										d1	L1	b1	h1	t1	u1	s1	m1
104	163	76	15	4	260	230	200	6	11	50	61	14	9	5.5	3.5	M10	20
105	163	96	15	4	260	230	200	6	11	50	81	14	9	5.5	3.5	M10	20
106	219	89	20	4	340	310	270	6	11	60	80	18	11	7	4	M10	20
107	258	94	22	5	400	360	316	8	14	70	84	20	12	7.5	4.5	M12	25

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMJV 1-104	0.75	4	591	352	180	162	61	691	452	180	162	65
MMJV 2-104	1.5	4	653	414	199	178	77	753	514	199	178	82
MMJV 3-104	2.2	4	698	459	220	199	95	798	559	220	199	102
MMJV 5-104	3.7	4	683	444	244	216	99	813	574	244	216	108
MMJV 2-105	1.5	4	673	414	199	178	79	773	514	199	178	84
MMJV 3-105	2.2	4	713	459	220	199	97	818	559	220	199	104
MMJV 5-105	3.7	4	703	444	244	216	101	833	574	244	216	110
MMJV 3-106	2.2	4	765	457	220	199	136	865	557	220	199	143
MMJV 5-106	3.7	4	750	442	244	216	140	880	572	244	216	149
MMJV 8-106	5.5	4	819	511	284	236	178	949	641	284	236	189
MMJV10-106	7.5	4	857	549	284	236	185	987	679	284	236	196
MMJV 5-107	3.7	4	799	447	244	216	172	929	577	244	216	181
MMJV 8-107	5.5	4	881	529	284	236	186	1011	659	284	236	195
MMJV10-107	7.5	4	919	567	284	236	193	1049	697	284	236	204
MMJV15-107	11	4	1004	652	337	301	256	1134	782	337	301	271
MMJV20-107	15	4	1048	696	337	301	264	1178	826	337	301	279

Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

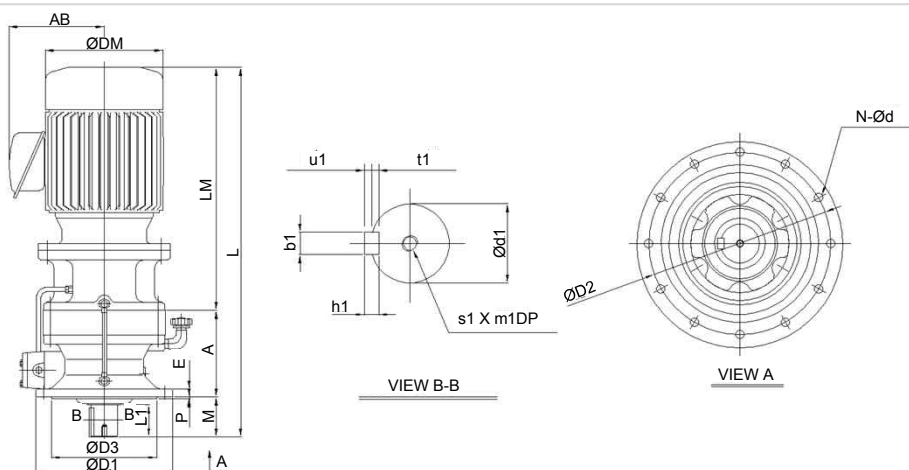
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMJV-Single reduction type

MMJV □ -108~122



Frame	A	M	E	P	D1	D2	D3	N	d	Output shaft							
										d1	L1	b1	h1	t1	u1	s1	m1
108	279	110	22	5	430	390	345	8	14	80	100	22	14	9	5	M12	25
109	320	145	30	6	490	450	400	12	18	95	125	25	14	9	5	M20	35
110	380	190	35	8	580	520	455	12	22	110	165	28	16	10	6	M20	35
122	380	190	35	8	580	520	455	12	22	120	165	32	18	11	7	M20	35

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMJV 8-108	5.5	4	912	523	284	236	243	1042	653	284	236	254
MMJV10-108	7.5	4	950	561	284	236	250	1080	691	284	236	261
MMJV15-108	11	4	1035	646	337	301	310	1165	776	337	301	329
MMJV20-108	15	4	1079	690	337	301	318	1209	820	337	301	337
MMJV10-109	7.5	4	1028	563	284	236	365	1158	693	284	236	376
MMJV15-109	11	4	1113	648	337	301	427	1243	778	337	301	446
MMJV20-109	15	4	1157	692	337	301	435	1287	822	337	301	462
MMJV30-109	22	4	1197	732	374	325	458	1357	892	374	325	485
MMJV15-110	11	4	1224	654	337	301	532	1354	784	337	301	552
MMJV20-110	15	4	1268	698	337	301	540	1398	828	337	301	560
MMJV30-110	22	4	1308	738	374	325	571	1468	898	374	325	598
MMJV40-110	30	4	1346	776	374	316	587	1506	936	374	316	614
MMJV20-122	15	6	1308	738	374	325	571	1468	898	374	325	598
MMJV30-122	22	6	1346	776	374	316	587	1506	936	374	316	614
MMJV40-122	30	6	1429	859	404	364	612	1591	1010	404	364	639

Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

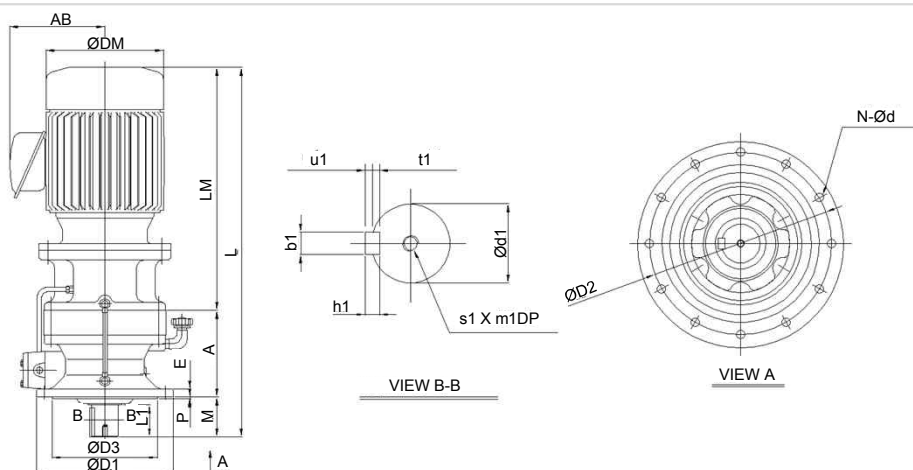
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMJV-Single reduction type

MMJV □ -111~125



Frame	A	M	E	P	D1	D2	D3	N	d	Output shaft							
										d1	L1	b1	h1	t1	u1	s1	m1
111	414	242	40	10	650	590	520	12	22	120	202	32	8	11	7	M24	45
124	414	242	40	10	650	590	520	12	22	140	202	36	20	12	8	M24	45
112	601	252	50	10	880	800	680	12	33	140	245	36	20	12	8	M30	52
125	601	252	50	10	880	800	680	12	33	160	245	40	22	13	9	M30	52

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMJV20-111	15	6	1347	691	374	325	627	1507	851	374	325	648
MMJV30-111	22	6	1406	750	374	316	733	1566	910	374	316	781
MMJV40-111	30	6	1511	855	404	364	839	1671	1015	404	364	887
MMJV50-111	37	6	1511	855	404	364	883	1671	1015	404	364	931
MMJV20-124	15	6	1347	691	374	325	647	1507	851	374	325	668
MMJV30-124	22	6	1406	750	374	316	753	1566	910	374	316	801
MMJV40-124	30	6	1511	855	404	364	859	1671	1015	404	364	907
MMJV50-124	37	6	1511	855	404	364	903	1671	1015	404	364	951
MMJV30-112	22	6	1675	822	374	316	1290	1835	982	374	316	1338
MMJV40-112	30	6	1749	896	404	364	1412	1909	1056	404	364	1460
MMJV50-112	37	6	1749	896	404	364	1412	1909	1056	404	364	1460
MMJV30-125	22	6	1675	822	374	316	1320	1835	982	374	316	1368
MMJV40-125	30	6	1749	896	404	364	1442	1909	1056	404	364	1490
MMJV50-125	37	6	1749	896	404	364	1442	1909	1056	404	364	1490

Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

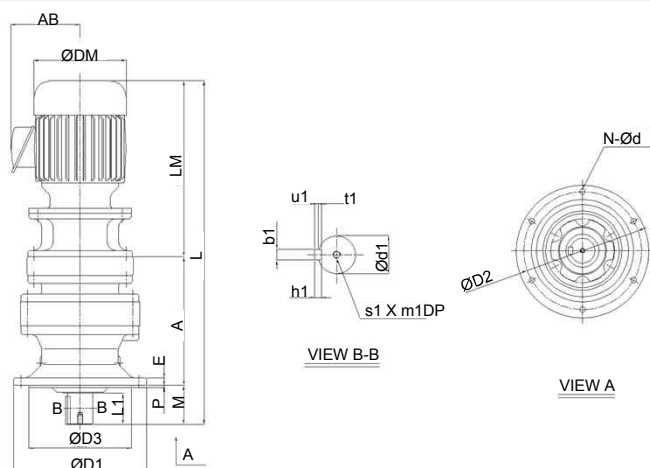
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMJV-Double reduction type

MMJV □ -232~282



Frame	A	M	E	P	D1	D2	D3	N	d	Output shaft							
										d1	L1	b1	h1	t1	u1	s1	m1
232	196	69	13	4	210	180	140	6	11	38	55	10	8	5	3	-	-
242	241	76	15	4	260	230	200	6	11	50	61	14	9	5.5	3.5	M10	20
252	241	96	15	4	260	230	200	6	11	50	81	14	9	5.5	3.5	M10	20
262	297	89	20	4	340	310	270	6	11	60	80	18	11	7	4	M10	20
272	344	94	22	5	400	360	316	8	14	70	84	20	12	7.5	4.5	M12	25
282	364	110	22	5	430	390	345	8	18	60	100	22	14	9	5	M12	25

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMJV02-232	0.2	4	574	309	148	124	49	674	409	148	124	49
MMJV05-232	0.4	4	605	340	180	162	54	705	440	180	162	58
MMJV 1-232	0.75	4	605	340	180	162	54	705	440	180	162	58
MMJV02-242	0.2	4	626	309	148	124	59	726	409	148	124	62
MMJV05-242	0.4	4	657	340	180	162	81	757	440	180	162	84
MMJV02-252	0.2	4	646	309	148	124	61	746	409	148	124	64
MMJV05-252	0.4	4	677	340	180	162	82	777	440	180	162	85
MMJV02-262	0.2	4	695	309	148	124	110	795	409	148	124	113
MMJV05-262	0.4	4	726	340	180	162	131	826	440	180	162	134
MMJV02-272	0.2	4	747	309	148	124	139	847	409	148	124	143
MMJV05-272	0.4	4	778	340	180	162	160	878	440	180	162	164
MMJV05-282	0.4	4	814	340	180	162	201	914	440	180	162	205

Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

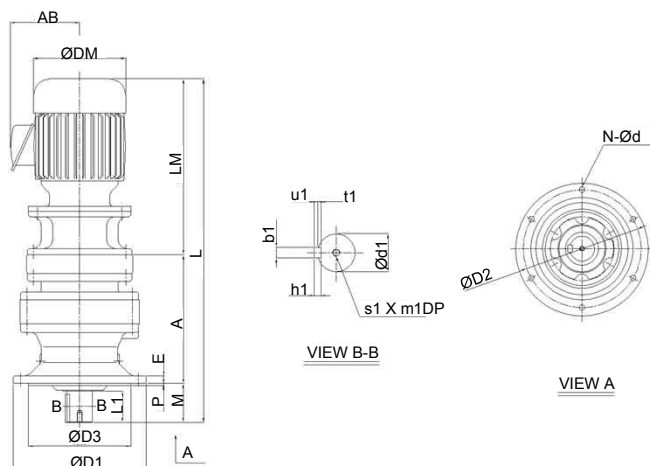
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMJV-Double reduction type

MMJV ☐ -243~284



Frame	A	M	E	P	D1	D2	D3	N	d	Output shaft							
										d1	L1	b1	h1	t1	u1	s1	m1
243	251	76	15	4	260	230	200	6	11	50	61	14	9	5.5	3.5	M10	20
253	251	96	15	4	260	230	200	6	11	50	81	14	9	5.5	3.5	M10	20
263	303	89	20	4	340	310	270	6	11	60	80	18	11	7	4	M10	20
273	345	94	22	5	400	360	316	8	14	70	84	20	12	7.5	4.5	M12	25
274	360	94	22	5	400	360	316	8	14	70	84	20	12	7.5	4.5	M12	25
284	386	110	22	5	430	390	345	8	18	80	100	22	14	9	5	M12	25

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMJV 1-243	0.75	4	670	343	180	162	71	770	443	180	162	75
MMJV 2-243	1.5	4	732	405	199	178	89	832	505	199	178	94
MMJV 1-253	0.75	4	690	343	180	162	76	790	443	180	162	76
MMJV05-263	0.4	4	735	343	180	162	125	835	443	180	162	129
MMJV 1-263	0.75	4	735	343	180	162	125	835	443	180	162	129
MMJV 2-263	1.5	4	797	405	199	178	141	897	505	199	178	146
MMJV 3-263	2.2	4	842	450	220	199	158	942	550	200	199	165
MMJV 1-273	0.75	4	782	343	180	162	155	882	443	180	162	155
MMJV 2-273	1.5	4	844	405	199	178	174	944	505	199	178	179
MMJV 3-273	2.2	4	889	450	220	199	191	989	550	220	199	198
MMJV 5-274	3.7	4	898	444	244	216	210	1028	574	244	216	219
MMJV 1-284	0.75	4	848	352	180	162	220	948	452	180	162	222
MMJV 2-284	1.5	4	910	414	199	178	224	1010	514	199	178	229
MMJV 3-284	2.2	4	955	459	220	199	238	1055	559	220	199	246
MMJV 5-284	3.7	4	940	444	244	216	246	1070	574	244	216	255

Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

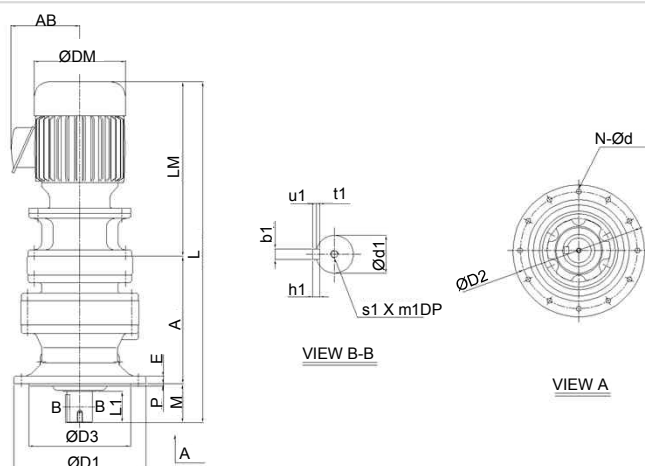
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMJV-Double reduction type

MMJV □ -293~2226



Frame	A	M	E	P	D1	D2	D3	N	d	Output shaft							
										d1	L1	b1	h1	t1	u1	s1	m1
293	414	145	30	6	490	450	400	12	18	95	125	25	14	9	5	M20	35
294	427	145	30	6	490	450	400	12	18	95	125	25	14	9	5	M20	35
296	456	145	30	6	490	450	400	12	18	95	125	25	14	9	5	M20	35
2104	492	190	35	8	580	520	455	12	22	110	165	28	16	10	6	M20	35
2106	515	190	35	8	580	520	455	12	22	110	165	28	16	10	6	M20	35
2224	492	190	35	8	580	520	455	12	22	120	165	32	18	11	7	M20	35
2226	515	190	35	8	580	520	455	12	22	120	165	32	18	11	7	M20	35

Model	Motor		Motor mounting						Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)		L	LM	DM	AB	weight(KG)
MMJV 1-293	0.75	4	902	343	180	162	274		1002	443	180	162	278
MMJV 2-293	1.5	4	964	405	199	178	291		1064	505	199	178	296
MMJV 2-294	1.5	4	986	414	199	178	304		1086	514	199	178	308
MMJV 3-294	2.2	4	1031	459	220	199	318		1131	559	220	199	325
MMJV 5-294	3.7	4	1016	444	244	216	322		1146	574	244	216	331
MMJV10-296	7.5	4	1150	549	284	236	404		1280	679	284	236	415
MMJV 2-2104	1.5	4	1096	414	199	178	454		1196	514	199	178	459
MMJV 3-2104	2.2	4	1141	459	220	199	472		1241	559	220	199	479
MMJV 5-2104	3.7	4	1126	444	244	216	476		1256	574	244	216	485
MMJV 8-2106	5.5	4	1216	511	284	236	515		1346	641	284	236	526
MMJV10-2106	7.5	4	1254	549	284	236	522		1384	679	284	236	533
MMJV 2-2224	1.5	4	1096	414	199	178	459		1196	514	199	178	464
MMJV 3-2224	2.2	4	1141	459	220	199	477		1241	559	220	199	484
MMJV 5-2224	3.7	4	1126	444	244	216	481		1256	574	244	216	490
MMJV 8-2226	5.5	4	1216	511	284	236	520		1346	641	284	236	531
MMJV10-2226	7.5	4	1254	549	284	236	527		1384	679	284	236	538

Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

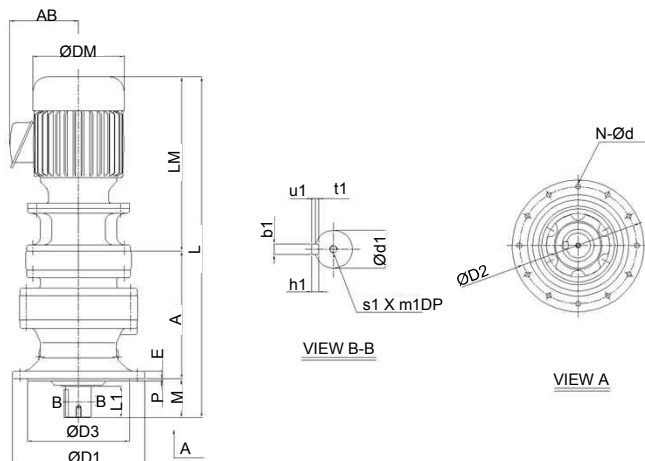
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMJV-Double reduction type

MMJV □ -2116~2258



Frame	A	M	E	P	D1	D2	D3	N	d	Output shaft							
										d1	L1	b1	h1	t1	u1	s1	m1
2116	546	242	40	10	650	590	520	12	22	120	202	32	18	11	7	M24	45
2117	560	242	40	10	650	590	520	12	22	120	202	32	18	11	7	M24	45
2246	546	242	40	10	650	590	520	12	22	140	202	36	20	12	8	M24	45
2247	560	242	40	10	650	590	520	12	22	140	202	36	20	12	8	M24	45
2128	768	252	50	10	880	800	680	12	33	140	245	36	20	12	8	M30	52
2258	768	252	50	10	880	800	680	12	33	160	245	40	22	13	9	M30	52

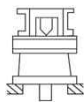
Model	Motor		Motor mounting						Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)		L	LM	DM	AB	weight(KG)
MMJV 3-2116	2.2	4	1245	457	220	199	606		1345	557	220	199	613
MMJV 5-2116	3.7	4	1230	442	244	216	610		1360	572	244	216	619
MMJV 8-2116	5.5	4	1299	511	284	236	643		1429	641	284	236	654
MMJV10-2116	7.5	4	1337	549	284	236	650		1467	679	284	236	661
MMJV 8-2117	5.5	4	1331	529	284	236	650		1461	659	284	236	659
MMJV10-2117	7.5	4	1369	567	284	236	657		1499	697	284	236	668
MMJV15-2117	11	4	1454	652	337	301	713		1584	782	337	301	732
MMJV20-2117	15	4	1498	696	337	301	721		1628	826	337	301	740
MMJV 5-2246	3.7	4	1230	442	244	216	620		1360	572	244	216	629
MMJV 8-2246	5.5	4	1299	511	284	236	653		1429	641	284	236	664
MMJV10-2246	7.5	4	1337	549	284	236	660		1467	679	284	236	671
MMJV20-2247	15	4	1498	696	337	301	731		1628	826	337	301	750
MMJV 8-2128	5.5	4	1543	523	284	236	1174		1673	653	284	236	1185
MMJV10-2128	7.5	4	1581	561	284	236	1181		1711	691	284	236	1192
MMJV15-2128	11	4	1666	646	337	301	1240		1796	776	337	301	1259
MMJV20-2128	15	4	1710	690	337	301	1248		1840	820	337	301	1267
MMJV10-2258	7.5	4	1581	561	284	236	1196		1711	691	284	236	1217
MMJV15-2258	11	4	1666	646	337	301	1255		1796	776	337	301	1274
MMJV20-2258	15	4	1710	690	337	301	1263		1840	820	337	301	1282

Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension. 3) Applied parallel key (KS B 1311-84) dimension.

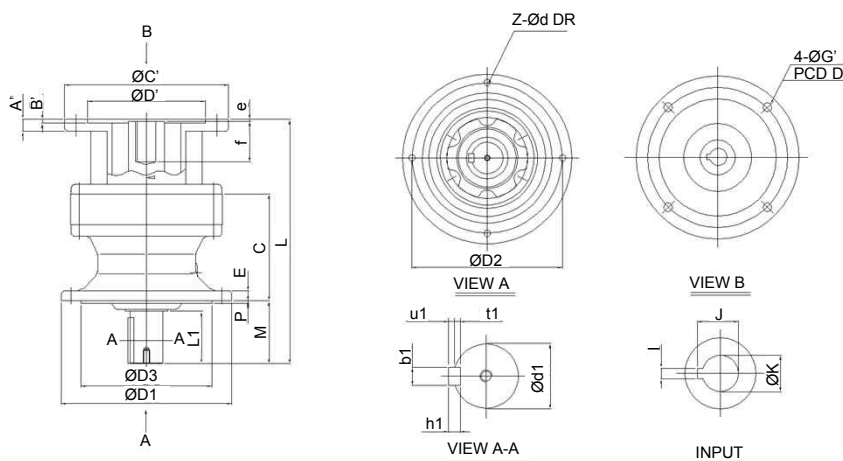
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MJV-Single reduction type

MJV □ -102~103



Frame	C	D1	D2	D3	M	E	P	Z	d	Output shaft							
										d1	L1	b1	h1	t1	u1	s1	m1
102	108	160	134	110	48	9	3	4	11	28	35	8	7	4	3	-	-
103	120	210	180	140	69	13	4	6	11	38	55	10	8	5	3	-	-

Model	Motor		Motor mounting flange dimension							Motor shaft input dimension						
	KW	POLE	L	D	D'	C'	B'	A'	G'	K	f	J	I	e	weight(KG)	
MJV02-102	0.2	4	237	130	110	160	5	10	10	14F6	41	16.3	5	3	18	
MJV05-102	0.4	4	237	165	130	200	5	10	12	19F6	41	21.8	6	3	18	
MJV 1-102	0.75	4	237	165	130	200	5	10	12	19F6	41	21.8	6	3	19	
MJV05-103	0.4	4	273	165	130	200	5	10	12	19F6	41	21.8	6	3	24	
MJV 1-103	0.75	4	273	165	130	200	5	10	12	19F6	41	21.8	6	3	25	
MJV 2-103	1.5	4	284	165	130	200	5	12	12	24F6	52	27.8	8	3	25	
MJV 3-103	2.2	4	294	215	180	250	6	15	15	28F6	62	31.3	8	3	27	

Note 1) Applied h6 allowance level for output shaft and input shaft dimension.

2) Applied parallel key (KS B 1311-84) dimension.

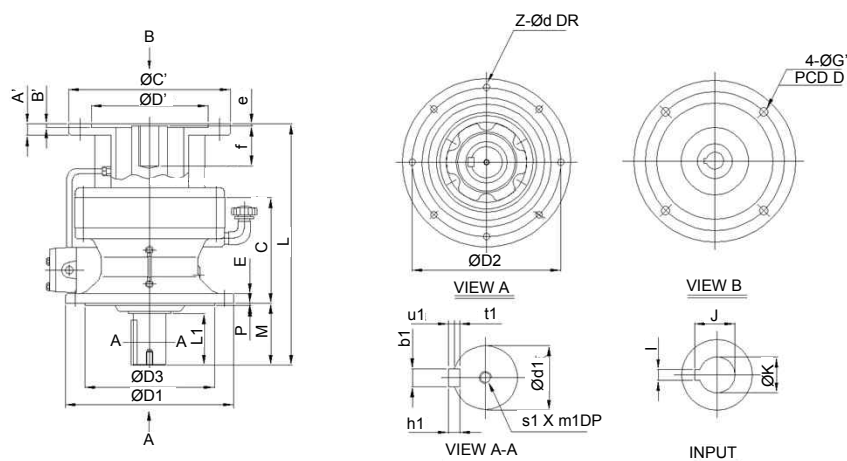
3) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP				Direct				Adapter				LP		
MSH				MSHS				MMH				MSFH		
MMH				MMHS				MMJH				MMFH		
MMJH				MMJHS				MJH				MMJFH		
MJH				MJHS				MSV				MSVH		
MSV				MSVH				MMV				MMVH		
MMV				MMJV				MJV				MJVH		



MJV-Single reduction type

MJV □ -107~108



Frame	C	D1	D2	D3	M	E	P	Z	d	Output shaft							
										d1	L1	b1	h1	t1	u1	s1	m1
107	258	400	360	316	94	22	5	8	14	70	84	20	12	7.5	4.5	M12	25
108	279	430	390	345	110	22	5	8	18	80	100	22	14	9	5	M12	25

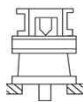
Model	Motor		Motor mounting flange dimension							Motor shaft input dimension						
	KW	POLE	L	D	D'	C'	B'	A'	G'	K	f	J	I	e	weight(KG)	
MJV 5-107	3.7	4	469	215	180	250	6	18	15	28F6	62	31.3	8	3	120	
MJV 8-107	5.5	4	499	265	230	300	6	22	15	38F7	78	41.3	10	4	126	
MJV10-107	7.5	4	499	265	230	300	6	22	15	38F7	78	41.3	10	4	126	
MJV15-107	11	4	530	300	250	350	6	22	19	42F7	98	45.3	12	15	138	
MJV20-107	15	4	530	300	250	350	6	22	19	42F7	98	45.3	12	15	138	
MJV 8-108	5.5	4	530	265	230	300	6	20	15	38F7	78	41.3	10	4	163	
MJV10-108	7.5	4	530	265	230	300	6	20	15	38F7	78	41.3	10	4	163	
MJV15-108	11	4	561	300	250	350	6	22	19	42F7	98	45.3	12	15	172	
MJV20-108	15	4	561	300	250	350	6	22	19	42F7	98	45.3	12	15	172	

Note 1) Applied h6 allowance level for output shaft and input shaft dimension.

2) Applied parallel key (KS B 1311-84) dimension.

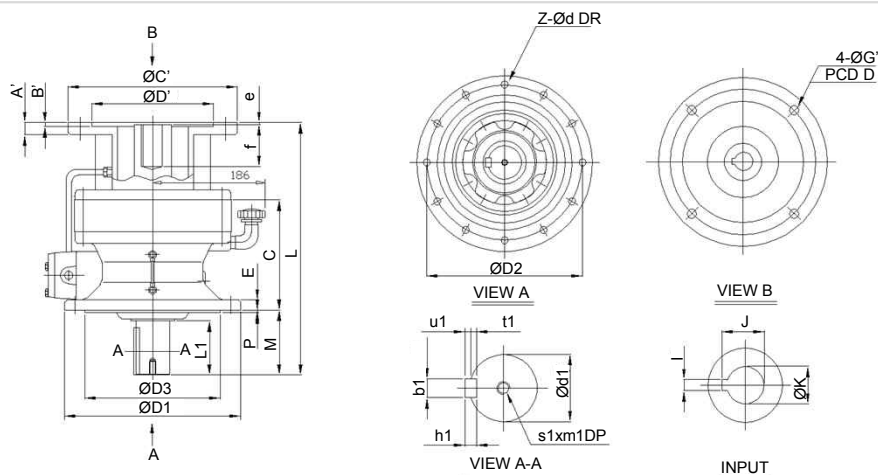
3) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MJV-Single reduction type

MJV ☐ -109~122



Frame	C	D1	D2	D3	M	E	P	Z	d	Output shaft							
										d1	L1	b1	h1	t1	u1	s1	m1
109	320	490	450	400	145	30	6	12	18	95	125	25	14	9	5	M20	35
110	380	580	520	455	190	35	8	12	22	110	165	28	16	10	6	M20	35
122	380	580	520	455	190	35	8	12	22	120	165	32	18	11	7	M20	35

Model	Motor		Motor mounting flange dimension							Motor shaft input dimension						
	KW	POLE	L	D	D'	C'	B'	A'	G'	K	f	J	I	e	weight(KG)	
MJV10-109	7.5	4	608	265	230	300	6	20	15	38F7	78	41.3	10	4	278	
MJV15-109	11	4	639	300	250	350	6	22	19	42F7	98	45.3	12	15	289	
MJV20-109	15	4	639	300	250	350	6	22	19	42F7	98	45.3	12	15	289	
MJV30-109	22	4	639	350	300	400	6	22	19	48F7	98	51.8	14	15	297	
MJV15-110	11	4	750	300	250	350	6	25	19	42F7	95	45.3	12	20	394	
MJV20-110	15	4	750	300	250	350	6	25	19	42F7	95	45.3	12	20	394	
MJV30-110	22	4	750	350	300	400	6	25	19	48F7	95	51.8	14	20	410	
MJV40-110	30	4	750	350	300	400	6	25	19	55F7	95	60	16	20	410	
MJV15-122	11	6	750	300	250	350	6	25	19	42F7	95	45.3	12	20	402	
MJV20-122	15	6	750	350	300	400	6	25	19	48F7	95	51.8	14	20	402	
MJV30-122	22	6	750	350	300	400	6	25	19	55F7	95	60	16	20	418	
MJV40-122	30	6	750	400	350	450	6	25	19	55F7	123	60	16	20	418	

Note 1) Applied h6 allowance level for output shaft and input shaft dimension.

2) Applied parallel key (KS B 1311-84) dimension.

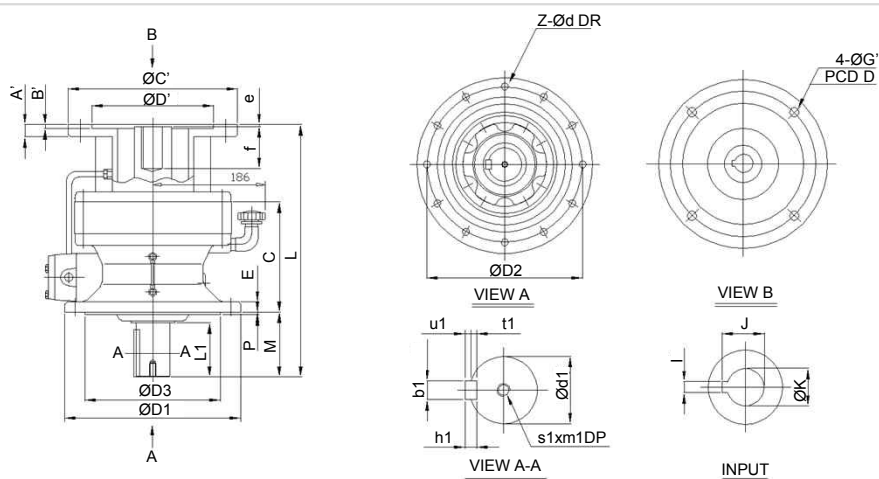
3) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MJV-Single reduction type

MJV □ -111~125



Frame	C	D1	D2	D3	M	E	P	Z	d	Output shaft							
										d1	L1	b1	h1	t1	u1	s1	m1
111	414	650	590	520	242	40	8	12	22	120	202	32	18	11	7	M24	45
124	414	650	590	520	242	40	10	12	22	140	202	36	20	12	8	M24	45
112	681	880	800	680	252	50	10	12	33	140	245	36	20	12	8	M30	52
125	601	880	800	630	252	50	10	12	33	160	245	40	22	13	9	M30	52

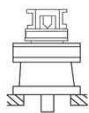
Model	Motor		Motor mounting flange dimension							Motor shaft input dimension						
	KW	POLE	L	D	D'	C'	B'	A'	G'	K	f	J	I	e	weight(KG)	
MJV20-111	15	6	841	350	300	400	6	35	19	48F7	98	52.3	14	19	552	
MJV30-111	22	6	841	350	300	400	6	35	19	55F7	98	59.8	16	19	552	
MJV40-111	30	6	841	400	350	450	6	35	19	60F7	125	64.8	18	19	568	
MJV50-111	40	6	841	400	350	450	6	35	19	60F7	125	64.8	18	19	568	
MJV20-124	15	6	841	350	300	400	6	35	19	48F7	98	52.3	14	19	580	
MJV30-124	22	6	841	350	300	400	6	35	19	55F7	98	59.8	16	19	580	
MJV40-124	30	6	841	400	350	450	6	35	19	60F7	125	64.8	18	19	596	
MJV50-124	40	6	841	400	350	450	6	35	19	60F7	125	64.8	18	19	596	
MJV30-112	22	6	1079	350	300	400	6	35	19	55F7	107	59.8	16	26	1156	
MJV40-112	30	6	1079	400	350	450	6	35	19	60F7	137	64.8	18	26	1165	
MJV50-112	40	6	1079	400	350	450	6	35	19	60F7	137	64.8	18	26	1165	
MJV30-125	22	6	1079	350	300	400	6	35	19	55F7	107	59.8	16	26	1186	
MJV40-125	30	6	1079	400	350	450	6	35	19	60F7	137	64.8	18	26	1195	
MJV50-125	40	6	1079	400	350	450	6	35	19	60F7	137	64.8	18	26	1195	

Note 1) Applied h6 allowance level for output shaft and input shaft dimension.

2) Applied parallel key (KS B 1311-84) dimension.

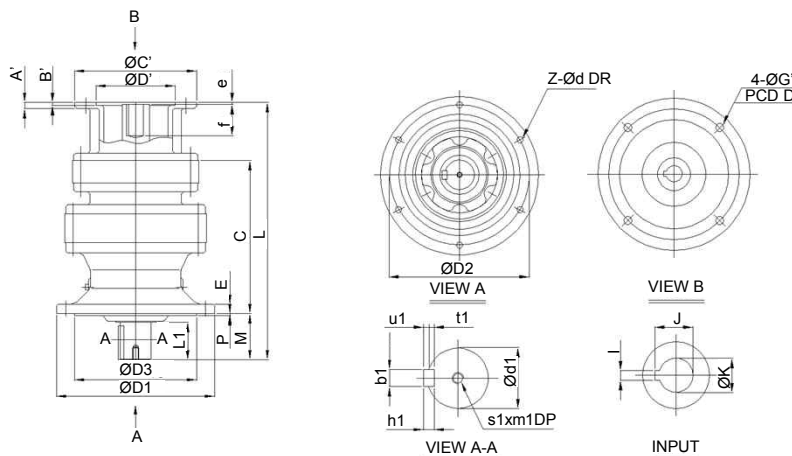
3) Dimensions can be changed without notice.

Case mount							Base mount				Flange mount		
LP		Direct		Adapter			LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MJV-Double reduction type

MJV ☐ -232~282



Frame	C	D1	D2	D3	M	E	P	Z	d	Output shaft							
										d1	L1	b1	h1	t1	u1	s1	m1
232	196	210	180	140	69	13	4	6	11	38	55	10	8	5	3	-	-
242	241	260	230	200	76	15	4	6	11	50	61	14	9	5.5	3.5	M10	20
252	241	260	230	200	96	15	4	6	11	50	81	14	9	5.5	3.5	M10	20
262	297	340	310	270	89	20	4	6	11	60	80	18	11	7	4	M10	20
272	344	400	360	316	94	22	5	8	14	70	84	20	12	7.5	4.5	M12	25
282	364	430	390	345	110	22	5	8	18	80	100	22	14	9	5	M12	25

Model	Motor		Motor mounting flange dimension							Motor shaft input dimension						
	KW	POLE	L	D	D'	C'	B'	A'	G'	K	f	J	I	e	weight(KG)	
MJV02-232	0.2	4	346	130	110	160	5	10	10	14F6	41	16.3	5	3	37	
MJV05-232	0.4	4	346	165	130	200	5	10	12	19F6	41	21.8	6	3	38	
MJV 1-232	0.75	4	346	165	130	200	5	10	12	19F6	41	21.8	6	3	38	
MJV02-242	0.2	4	398	130	110	160	5	10	10	14F6	41	16.3	5	3	51	
MJV05-242	0.4	4	398	165	130	200	5	10	12	19F6	41	21.8	6	3	51	
MJV02-252	0.2	4	418	130	110	160	5	10	10	14F6	41	16.3	5	3	52	
MJV05-252	0.4	4	418	165	130	200	5	10	12	19F6	41	21.8	6	3	52	
MJV02-262	0.2	4	467	130	110	160	5	10	10	14F6	41	16.3	5	3	101	
MJV05-262	0.4	4	467	165	130	200	5	10	12	19F6	41	21.8	6	3	101	
MJV02-272	0.2	4	519	130	110	160	5	10	10	14F6	41	16.3	5	3	130	
MJV05-272	0.4	4	519	165	130	200	5	10	12	19F6	41	21.8	6	3	130	
MJV05-282	0.4	4	555	165	130	200	5	10	12	19F6	41	21.8	6	3	165	

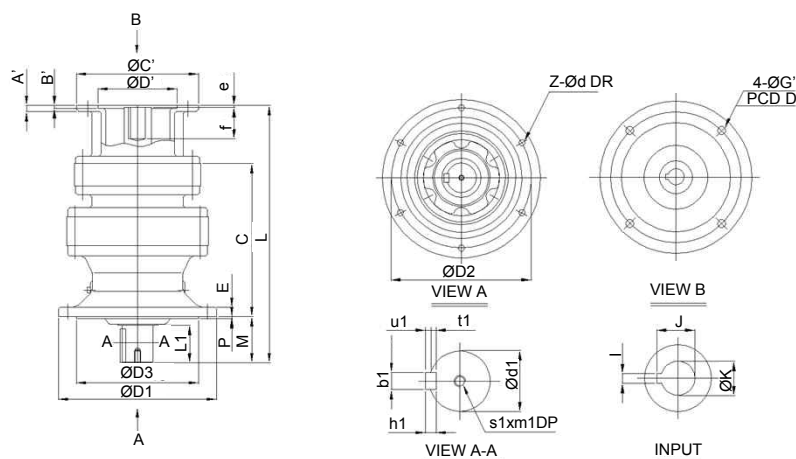
Note 1) Applied h6 allowance level for output shaft and input shaft dimension.

2) Applied parallel key (KS B 1311-84) dimension.

3) Dimensions can be changed without notice.

About Us

MJV ☐ **-243~284**



Frame	C	D1	D2	D3	M	E	P	Z	d	Output shaft							
										d1	L1	b1	h1	t1	u1	s1	m1
243	251	260	230	200	76	15	4	6	11	50	61	14	9	5.5	3.5	M10	20
253	251	260	230	200	96	15	4	6	11	50	81	14	9	5.5	3.5	M10	20
263	303	340	310	270	89	20	4	6	11	60	80	18	11	7	4	M10	20
273	345	400	360	316	94	22	5	8	14	70	84	20	12	7.5	4.5	M12	25
274	360	400	360	316	94	22	5	8	14	70	94	20	12	7.5	4.5	M12	25
284	386	430	390	345	110	22	5	8	18	80	100	22	14	9	5	M12	25

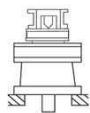
Model	Motor		Motor mounting flange dimension							Motor shaft input dimension					
	KW	POLE	L	D	D'	C'	B'	A'	G'	K	f	J	I	e	weight(KG)
MJV 1-243	0.75	4	411	165	130	200	5	10	12	19F6	41	21.8	6	3	55
MJV 2-243	1.5	4	422	165	130	200	6	10	12	24F6	52	27.3	8	3	55
MJV 1-253	0.75	4	431	165	130	200	5	10	12	19F6	41	21.8	6	3	56
MJV05-263	0.4	4	476	165	130	200	5	10	12	19F6	41	21.8	6	3	108
MJV 1-263	0.75	4	476	165	130	200	5	10	12	19F6	41	21.8	6	3	109
MJV 2-263	1.5	4	487	165	130	200	5	12	12	24F6	52	27.3	8	3	109
MJV 3-263	2.2	4	497	215	180	250	6	15	15	28F6	62	31.3	8	3	110
MJV 1-273	0.75	4	523	165	130	200	5	10	12	19F6	41	21.8	6	3	142
MJV 2-273	1.5	4	534	165	130	200	5	12	12	24F6	52	27.3	8	3	142
MJV 3-273	2.2	4	544	215	180	250	6	15	15	28F6	62	31.3	8	3	142
MJV 5-274	3.7	4	568	215	180	250	6	18	15	28F6	62	31.3	8	3	158
MJV 1-284	0.75	4	589	165	130	200	5	15	12	19F6	41	21.8	6	3	189
MJV 2-284	1.5	4	600	165	130	200	5	15	12	24F6	52	27.3	8	3	189
MJV 3-284	2.2	4	610	215	180	250	6	18	15	28F6	62	31.3	8	3	191
MJV 5-284	3.7	4	610	215	180	250	6	18	15	28F6	62	31.3	8	3	191

Note 1) Applied h6 allowance level for output shaft and input shaft dimension.

2) Applied parallel key (KS B 1311-84) dimension.

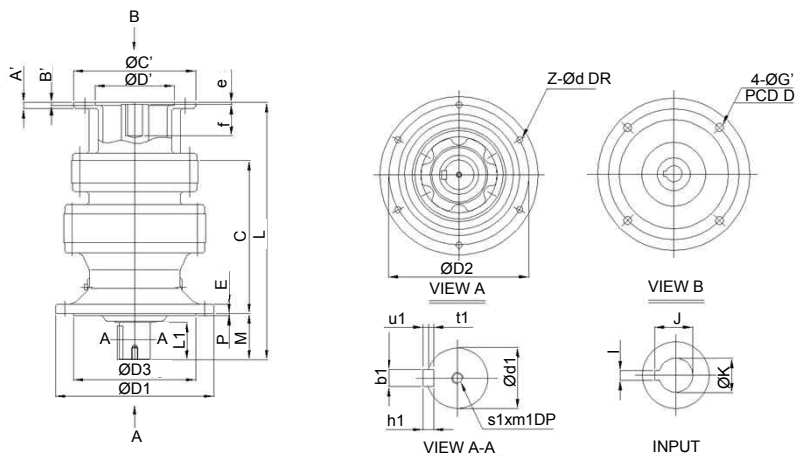
3) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MJV-Double reduction type

MJV ☐ -293~2226



Frame	C	D1	D2	D3	M	E	P	Z	d	Output shaft							
										d1	L1	b1	h1	t1	u1	s1	m1
293	414	490	450	400	145	30	6	12	18	95	125	25	14	9	5	M20	35
294	427	490	450	400	145	30	6	12	18	95	125	25	14	9	5	M20	35
296	456	490	450	400	145	30	6	12	18	95	125	25	14	9	5	M20	35
2104	492	580	520	455	190	35	8	12	22	110	165	28	16	10	6	M20	35
2106	515	580	520	455	190	35	8	12	22	110	165	28	16	10	6	M20	35
2224	492	580	520	455	190	35	8	12	22	120	165	32	18	11	7	M20	35
2226	515	580	520	455	190	35	8	12	22	120	165	32	18	11	7	M20	35

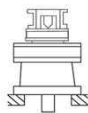
Model	Motor		Motor mounting flange dimension							Motor shaft input dimension					
	KW	POLE	L	D	D'	C'	B'	A'	G'	K	f	J	I	e	weight(KG)
MJV 1-293	0.75	4	643	165	130	200	5	10	12	19F6	41	21.8	6	3	259
MJV 2-293	1.5	4	654	165	130	200	5	12	12	24F6	52	27.3	8	3	259
MJV 2-294	1.5	4	676	165	130	200	5	15	12	24F6	52	27.8	8	3	268
MJV 3-294	2.2	4	686	215	180	250	6	18	15	28F6	62	31.3	8	3	270
MJV 5-294	3.7	4	686	215	180	250	6	18	15	28F6	62	31.3	8	3	270
MJV10-296	7.5	4	730	265	230	300	6	18	15	38F7	78	41.3	10	4	317
MJV 2-2104	1.5	4	786	165	130	200	5	15	12	24F6	52	27.3	8	3	422
MJV 3-2104	2.2	4	796	215	180	250	6	18	15	28F6	62	31.3	8	3	424
MJV 5-2104	3.7	4	796	215	180	250	6	18	15	28F6	62	31.3	8	3	424
MJV 8-2106	5.5	4	834	265	230	300	6	22	15	38F7	78	41.3	10	4	435
MJV10-2106	7.5	4	834	265	230	300	6	22	15	38F7	78	41.3	10	4	435
MJV 2-2224	1.5	4	786	165	130	200	5	15	12	24F6	52	27.3	8	3	427
MJV 3-2224	2.2	4	796	215	180	250	6	18	15	28F6	62	31.3	8	3	429
MJV 5-2224	3.7	4	796	215	180	250	6	18	15	28F6	62	31.3	8	3	429
MJV 8-2226	5.5	4	834	265	230	300	6	22	15	38F7	78	41.3	10	4	440
MJV10-2226	7.5	4	834	265	230	300	6	22	15	38F7	78	41.3	10	4	440

Note 1) Applied h6 allowance level for output shaft and input shaft dimension.

2) Applied parallel key (KS B 1311-84) dimension.

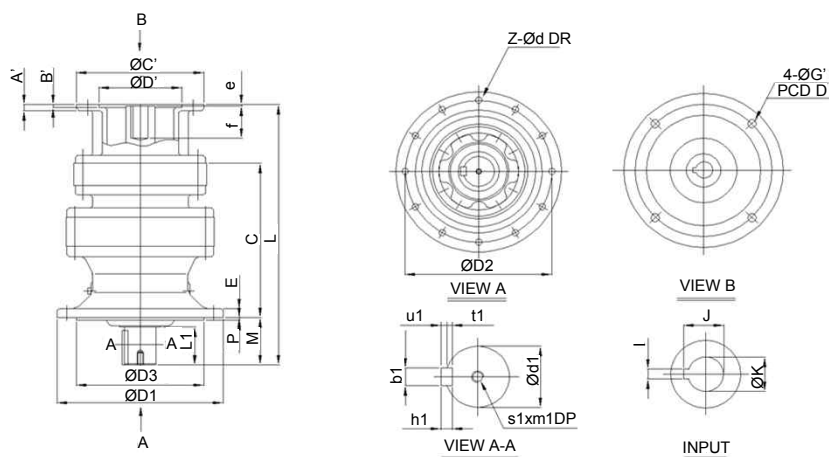
3) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MJV-Double reduction type

MJV □ -2116~2258



Frame	C	D1	D2	D3	M	E	P	Z	d	Output shaft							
										d1	L1	b1	h1	t1	u1	s1	m1
2116	546	650	590	520	242	40	10	12	22	120	202	32	18	11	7	M24	45
2117	560	650	590	520	242	40	10	12	22	120	202	32	18	11	7	M24	45
2246	546	650	590	520	242	40	10	12	22	140	202	36	20	12	8	M24	45
2247	560	650	590	520	242	40	10	12	22	140	202	36	20	12	8	M24	45
2128	768	880	800	680	252	50	10	12	33	140	245	36	20	12	8	M30	52
2258	768	880	800	680	252	50	10	12	33	160	245	40	22	13	9	M30	52

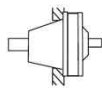
Model	Motor		Motor mounting flange dimension							Motor shaft input dimension					
	KW	POLE	L	D	D'	C'	B'	A'	G'	K	f	J	I	e	weight(KG)
MJV 3-2116	2.2	4	900	215	180	250	6	18	15	28F6	62	31.3	8	3	558
MJV 5-2116	3.7	4	900	215	180	250	6	18	15	28F6	62	31.3	8	3	558
MJV 8-2116	5.5	4	917	265	230	300	6	18	15	38F7	78	41.3	10	4	563
MJV10-2116	7.5	4	917	265	230	300	6	18	15	38F7	78	41.3	10	4	563
MJV 8-2117	5.5	4	949	265	230	300	6	22	15	38F7	78	41.3	10	4	570
MJV10-2117	7.5	4	949	265	230	300	6	22	15	38F7	78	41.3	10	4	570
MJV15-2117	11	4	980	300	250	350	6	22	19	42F7	98	45.3	12	15	575
MJV20-2117	15	4	980	300	250	350	6	22	19	42F7	98	45.3	12	15	575
MJV 5-2246	3.7	4	900	215	180	250	6	18	15	28F6	62	31.3	8	3	558
MJV 8-2246	5.5	4	900	265	230	300	6	18	15	38F7	78	41.3	10	4	573
MJV10-2246	7.5	4	917	265	230	300	6	18	15	38F7	78	41.3	10	4	573
MJV15-2247	15	4	980	300	250	350	6	22	19	42F7	98	45.3	12	15	585
MJV 8-2128	5.5	4	1162	265	230	300	6	20	15	38F7	78	41.3	10	4	1094
MJV10-2128	7.5	4	1162	265	230	300	6	20	15	38F7	78	41.3	10	4	1094
MJV15-2128	11	4	1192	300	250	350	6	22	19	42F7	98	45.3	12	15	1102
MJV20-2128	15	4	1192	300	250	350	6	22	19	42F7	98	45.3	12	15	1102
MJV10-2258	7.5	4	1162	265	230	300	6	20	15	38F7	78	41.3	10	4	1109
MJV15-2258	11	4	1192	300	250	350	6	22	19	42F7	98	45.3	12	15	1117
MJV20-2258	15	4	1192	300	250	350	6	22	19	42F7	98	45.3	12	15	1117

Note 1) Applied h6 allowance level for output shaft and input shaft dimension.

2) Applied parallel key (KS B 1311-84) dimension.

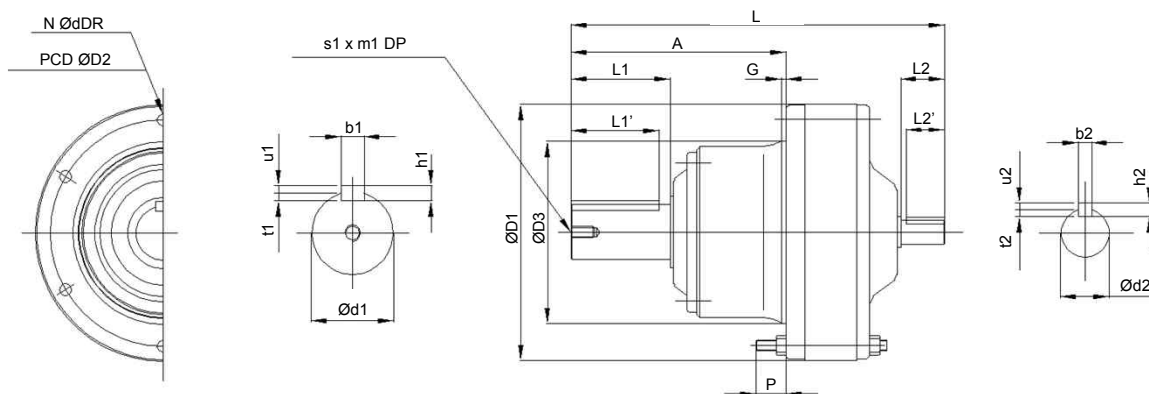
3) Dimensions can be changed without notice.

Case mount							Base mount				Flange mount			
LP		Direct		Adapter			LP	Direct	Adapter		LP	Direct	Adapter	
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MSFH-Single reduction type

MSFH-102~103



Frame	L	A	G	D1	D2	D3	P	N	d	weight (KG)
102	208	110	5	160	138	105	23	8	9	12
103	259	137	4	210	180	140	26	6	11	18

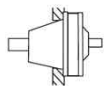
Model	Output shaft dimension							Input shaft dimension						
	d1	L1	L1'	b1	h1	t1	u1	d2	L2	L2'	b2	h2	t2	u2
MSFH-102	28	35	30	8	7	4	3	15	25	23	5	5	3	2
MSFH-103	38	55	50	10	8	5	3	18	35	30	6	6	3.5	2.5

Note 1) Applied h6 allowance level for output shaft and input shaft dimension.

2) Applied parallel key (KS B 1311-84) dimension.

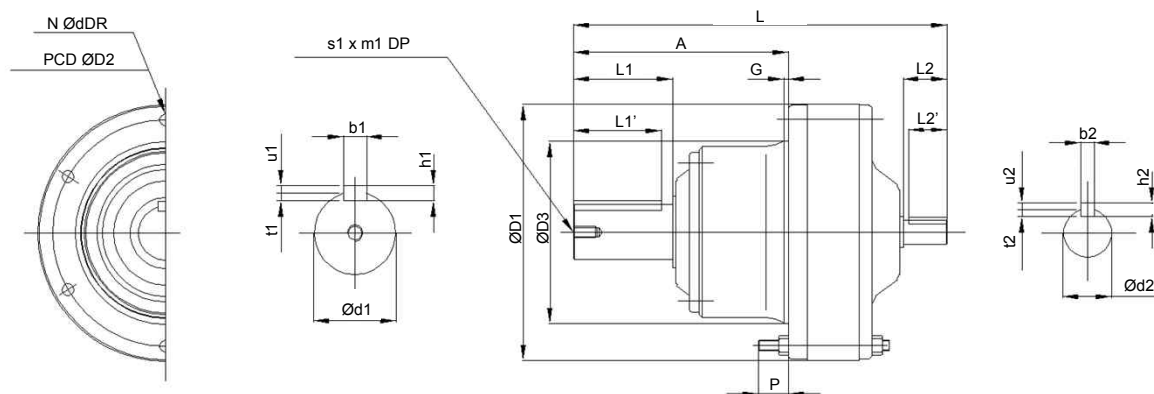
3) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MSFH-Single reduction type

MSFH-104~125

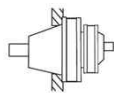


Frame	L	A	G	D1	D2	D3	P	N	d	weight (KG)
104	320	175	4	232	205	165	27	6	11	37
105	340	195	4	232	205	165	27	6	11	38
106	413	222	4	307	270	200	32	6	14	81
107	477	262	5	340	300	250	38	8	14	106
108	527	299	5	370	330	280	38	8	14	125
109	620	365	6	430	380	320	38	12	14	201
110	740	455	8	505	450	390	53	12	22	340
122	740	455	8	505	450	390	53	12	22	360
111	851	514	10	575	520	420	65	12	22	500
124	851	514	10	575	520	420	65	12	22	540
112	1110	682	10	710	640	535	80	12	27	1010
125	1110	682	10	710	640	535	80	12	27	1040

Model	Output shaft dimension									Input shaft dimension						
	d1	L1	L1'	b1	h1	t1	u1	s1	m1	d2	L2	L2'	b2	h2	t2	u2
MSFH-104	50	70	65	14	9	5.5	3.5	M10	20	22	40	35	6	6	3.5	2.5
MSFH-105	50	90	85	14	9	5.5	3.5	M10	20	22	40	35	6	6	3.5	2.5
MSFH-106	60	90	80	18	11	7	4	M10	20	30	64	40	8	7	4	3
MSFH-107	70	90	85	20	12	7.5	4.5	M12	25	35	72	50	10	8	5	3
MSFH-108	80	110	100	22	14	9	5	M12	25	40	82	60	12	8	5	3
MSFH-109	95	135	130	25	14	9	5	M20	35	45	92	65	14	9	5.5	3.5
MSFH-110	110	170	165	28	16	10	6	M20	35	50	102	75	14	9	5.5	3.5
MSFH-122	120	170	165	32	18	11	7	M20	35	55	102	75	16	10	6	4
MSFH-111	120	210	200	32	18	11	7	M24	45	55	107	80	16	10	6	4
MSFH-124	140	210	200	36	20	12	8	M24	45	65	107	80	18	11	7	4
MSFH-112	140	250	245	36	20	12	8	M30	52	70	144	110	18	11	7	4
MSFH-125	160	250	245	40	22	13	9	M30	52	80	144	110	22	14	9	5

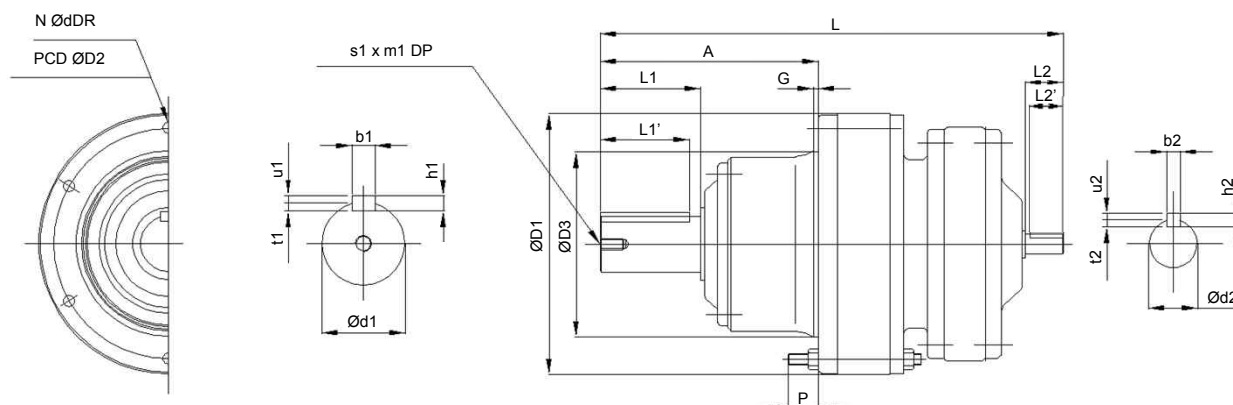
- Note 1) Applied h6 allowance level for output shaft and input shaft dimension.
2) Applied parallel key (KS B 1311-84) dimension.
3) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MSFH-Double reduction type

MSFH-232~282



Frame	L	A	G	D1	D2	D3	P	N	D	weight (KG)
232	317	137	4	208	180	140	26	6	11	34
242	369	175	4	232	205	165	27	6	11	45
252	389	1955	4	232	205	165	27	6	11	46
262	438	222	4	307	270	200	32	6	14	90
272	511	262	5	340	300	250	38	8	14	120
282	526	299	5	370	330	280	38	8	14	148

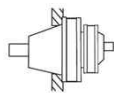
Model	Output shaft dimension									Input shaft dimension						
	d1	L1	L1'	b1	h1	t1	u1	s1	m1	d2	L2	L2'	b2	h2	t2	u2
MSFH-232	38	55	50	10	8	5	3	-	-	15	25	23	5	5	3	2
MSFH-242	50	70	65	14	9	5.5	3.5	M10	20	15	25	23	5	5	3	2
MSFH-252	50	90	85	14	9	5.5	3.5	M10	20	15	25	23	5	5	3	2
MSFH-262	60	90	80	18	11	7	4	M10	20	15	25	23	5	5	3	2
MSFH-272	70	90	85	20	12	7.5	4.5	M12	25	15	25	23	5	5	3	2
MSFH-282	80	110	100	22	14	9	5	M12	25	15	25	23	5	5	3	2

Note 1) Applied h6 allowance level for output shaft and input shaft dimension.

2) Applied parallel key (KS B 1311-84) dimension.

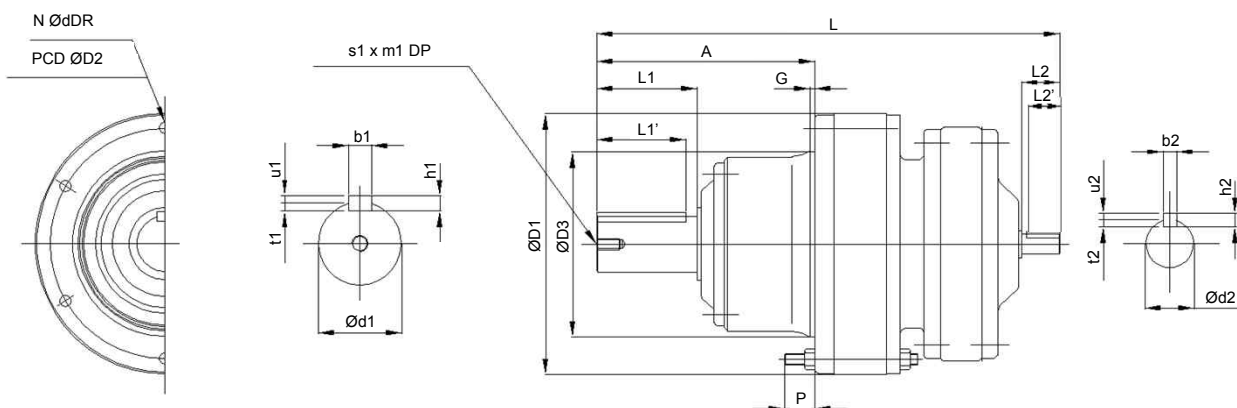
3) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MSFH-Double reduction type

MSFH-243~2226



Frame	L	A	G	D1	D2	D3	P	N	d	weight (KG)
243	397	175	4	232	205	165	27	6	11	48
253	417	195	4	232	205	165	27	6	11	49
263	462	222	4	307	270	200	32	6	14	96
273	509	262	5	340	300	250	38	8	14	120
274	535	262	5	340	300	250	38	8	14	135
284	577	299	5	370	330	280	38	8	14	170
293	629	365	6	430	380	320	38	12	14	250
294	653	365	6	430	380	320	38	12	14	258
296	706	365	6	430	380	320	38	12	14	268
2104	763	455	8	505	450	390	53	12	22	402
2224	763	455	8	505	450	390	53	12	22	411
2106	810	455	8	505	450	390	53	12	22	417
2226	810	455	8	505	450	390	53	12	22	425

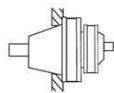
Model	Output shaft dimension									Input shaft dimension						
	d1	L1	L1'	b1	h1	t1	u1	s1	m1	d2	L2	L2'	b2	h2	t2	u2
MSFH-243	50	70	65	14	9	5.5	3.5	M10	20	18	35	30	6	6	3.5	2.5
MSFH-253	50	90	85	14	9	5.5	3.5	M10	20	18	35	30	6	6	3.5	2.5
MSFH-263	60	90	80	18	11	7	4	M10	20	18	35	30	6	6	3.5	2.5
MSFH-273	70	90	85	20	12	7.5	4.5	M12	24	18	35	30	6	6	3.5	2.5
MSFH-274	70	90	85	20	12	7.5	4.5	M12	24	22	40	35	6	6	3.5	2.5
MSFH-284	80	110	100	22	14	9	5	M12	24	22	40	35	6	6	3.5	2.5
MSFH-293	95	135	130	25	14	9	5	M20	35	18	35	30	6	6	3.5	2.5
MSFH-294	95	135	130	25	14	9	5	M20	35	22	40	35	6	6	3.5	2.5
MSFH-296	95	135	130	25	14	9	5	M20	35	30	64	40	8	7	4	3
MSFH-2104	110	170	165	28	16	10	6	M20	35	22	40	35	6	6	3.5	2.5
MSFH-2224	120	170	165	32	18	11	7	M20	35	22	40	35	6	6	3.5	2.5
MSFH-2106	110	170	165	28	16	10	6	M20	35	30	64	40	8	7	4	3
MSFH-2226	120	170	165	32	18	11	7	M20	35	30	64	40	10	8	5	3

Note 1) Applied h6 allowance level for output shaft and input shaft dimension.

2) Applied parallel key (KS B 1311-84) dimension.

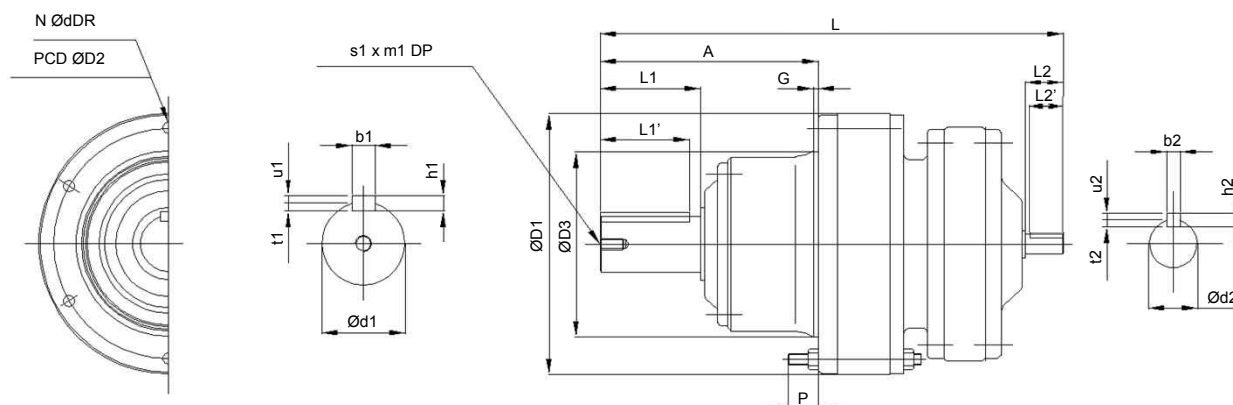
3) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MSFH-Double reduction type

MSFH-2116~2258



Frame	L	A	G	D1	D2	D3	P	N	d	weight (KG)
2116	893	514	10	575	520	420	65	12	22	506
2246	893	514	10	575	520	420	65	12	22	534
2117	927	514	10	575	520	420	65	12	22	533
2247	927	514	10	575	520	420	65	12	22	561
2128	1158	682	10	710	640	540	80	12	27	1085
2258	1158	682	10	710	640	540	80	12	27	1115

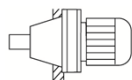
Model	Output shaft dimension									Input shaft dimension						
	d1	L1	L1'	b1	h1	t1	u1	s1	m1	d2	L2	L2'	b2	h2	t2	u2
MSFH-2116	120	210	200	32	18	11	7	M24	45	30	64	40	8	7	4	3
MSFH-2246	140	210	200	36	20	12	8	M24	45	30	64	40	8	7	4	3
MSFH-2117	120	210	200	32	18	11	7	M24	45	35	72	50	10	8	5	3
MSFH-2247	140	210	200	36	20	12	8	M24	45	35	72	50	10	8	5	3
MSFH-2128	140	250	245	36	20	12	8	M30	52	40	82	60	12	8	5	3
MSFH-2258	160	250	245	40	22	13	9	M30	52	40	82	60	12	8	5	3

Note 1) Applied h6 allowance level for output shaft and input shaft dimension.

2) Applied parallel key (KS B 1311-84) dimension.

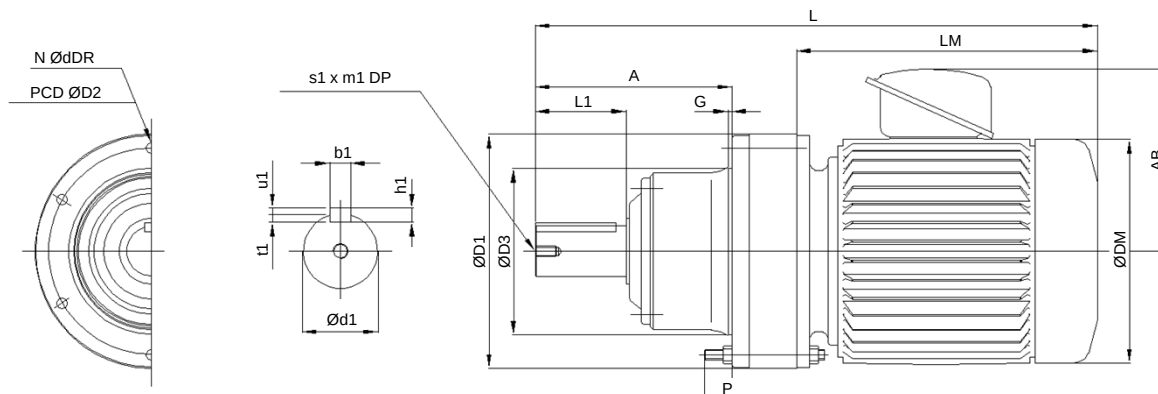
3) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMFH-Single reduction type

MMFH □ -102~103



Frame	A	D1	D2	D3	N	d	G	P	Output shaft					
									d1	L1	b1	h1	t1	u1
102	110	162	138	105	8	9	5	23	28	35	8	7	4	3
103	137	208	180	140	6	11	4	26	38	55	10	8	5	3

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMFH02-102	0.2	4	361	205	138	124	18	461	305	138	124	21
MMFH05-102	0.4	4	395	239	180	162	26	495	339	180	162	30
MMFH 1-102	0.75	4	395	239	180	162	26	495	339	180	162	30
MMFH05-103	0.4	4	432	243	180	162	32	532	343	180	162	36
MMFH 1-103	0.75	4	432	243	180	162	32	532	343	180	162	36
MMFH 2-103	1.5	4	477	288	199	178	41	577	388	199	178	46
MMFH 3-103	2.2	4	481	292	220	199	49	581	392	220	199	55

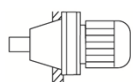
Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

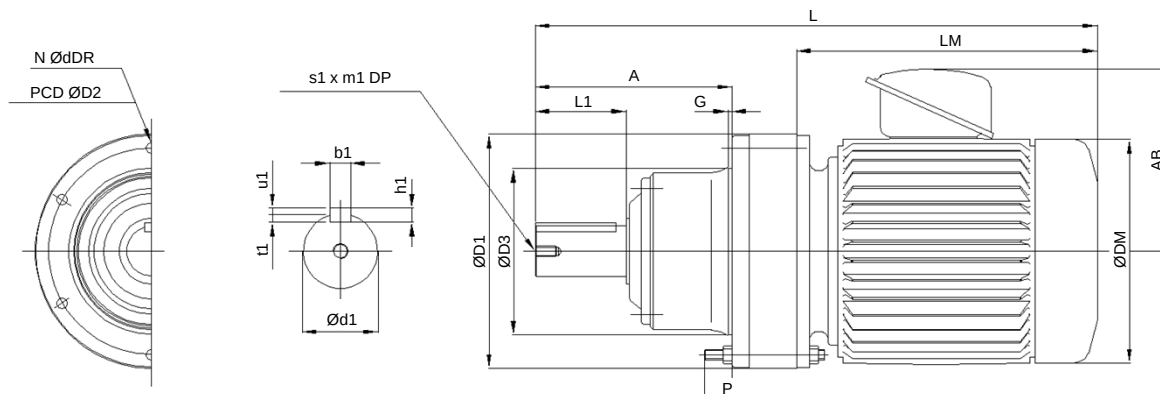
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMFH-Single reduction type

MMFH □ -104~107



Frame	A	D1	D2	D3	N	d	G	P	Output shaft							
									d1	L1	b1	h1	t1	u1	s1	m1
104	175	232	205	165	6	11	4	27	50	70	14	9	5.5	3.5	M10	20
105	195	232	205	165	6	11	4	27	50	90	14	9	5.5	3.5	M10	20
106	222	307	270	200	6	14	4	32	60	90	18	11	7	4	M10	20
107	262	340	300	250	8	14	5	38	70	90	20	12	7.5	4.5	M12	25

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMFH 1-104	0.75	4	479	240	180	162	48	579	340	180	162	52
MMFH 2-104	1.5	4	521	282	199	178	57	621	382	199	178	62
MMFH 3-104	2.2	4	537	298	220	199	65	637	398	220	199	73
MMFH 5-104	3.7	4	549	310	244	216	74	679	440	244	216	82
MMFH 8-104	5.5	4	599	360	284	236	94	729	490	284	236	105
MMFH 2-105	1.5	4	541	282	199	178	58	641	382	199	178	63
MMFH 3-105	2.2	4	557	298	220	199	66	657	398	220	199	74
MMFH 5-105	3.7	4	569	310	244	216	75	699	440	244	216	84
MMFH 3-106	2.2	4	600	292	220	199	104	700	392	220	199	112
MMFH 5-106	3.7	4	612	304	244	216	113	742	434	244	216	122
MMFH 8-106	5.5	4	663	355	284	236	129	793	485	284	236	140
MMFH10-106	7.5	4	695	387	284	236	140	825	517	284	236	150
MMFH15-106	11	4	761	453	337	301	187	891	583	337	301	202
MMFH 5-107	3.7	4	665	313	244	216	125	795	434	244	216	134
MMFH 8-107	5.5	4	714	362	284	236	145	844	492	284	236	156
MMFH10-107	7.5	4	746	394	284	236	158	876	524	284	236	169
MMFH15-107	11	4	813	461	337	301	192	973	621	337	301	207
MMFH20-107	15	4	851	499	337	301	215	1011	659	337	301	230

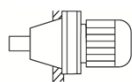
Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

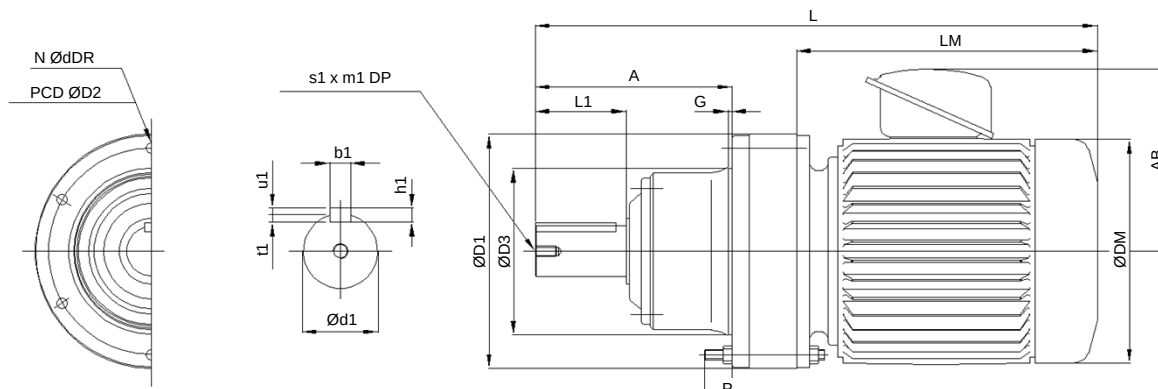
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMFH-Single reduction type

MMFH □ -108~109



Frame	A	D1	D2	D3	N	d	G	P	Output shaft							
									d1	L1	b1	h1	t1	u1	s1	m1
108	299	370	330	280	8	14	5	38	80	110	22	14	9	5	M12	25
109	365	430	380	320	12	14	6	38	95	135	25	14	9	5	M20	35

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMFH 8-108	5.5	4	753	364	284	236	167	883	494	284	236	178
MMFH10-108	7.5	4	785	396	284	236	182	915	526	284	236	193
MMFH15-108	11	4	852	463	337	301	220	1012	623	337	301	235
MMFH20-108	15	4	890	501	337	301	240	1050	661	337	301	255
MMFH30-108	22	4	934	545	374	325	295	1094	705	374	325	316
MMFH10-109	7.5	4	858	393	284	236	272	988	523	284	236	283
MMFH15-109	11	4	931	466	337	301	309	1091	626	337	301	324
MMFH20-109	15	4	967	502	337	301	327	1127	662	337	301	342
MMFH30-109	22	4	1029	564	374	325	384	1189	724	374	325	405
MMFH40-109	30	4	1075	610	374	316	439	1235	770	374	316	487

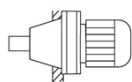
Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

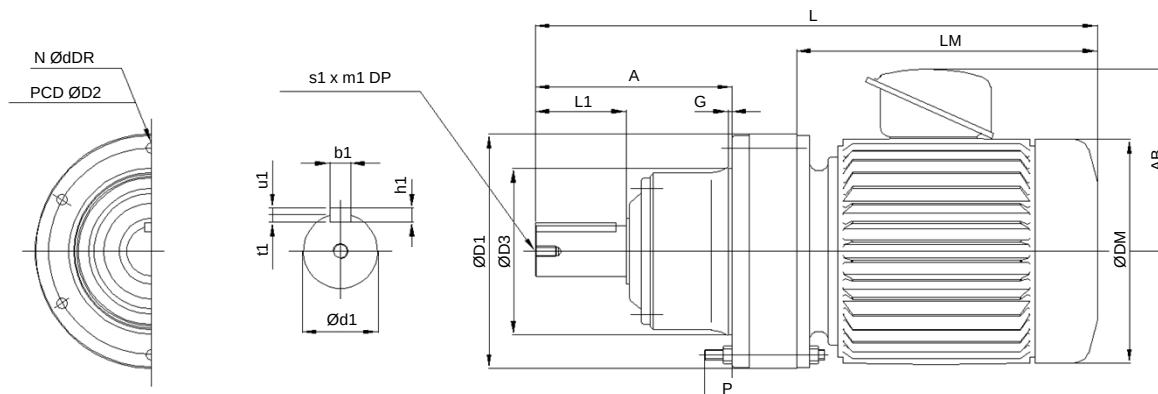
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMFH-Single reduction type

MMFH □ -110~122



Frame	A	D1	D2	D3	N	d	G	P	Output shaft							
									d1	L1	b1	h1	t1	u1	s1	m1
110	455	505	450	390	12	22	8	53	110	170	28	16	10	6	M20	35
122	455	505	450	390	12	22	8	53	120	170	32	18	11	7	M20	35

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMFH15-110	11	4	1034	464	337	301	422	1194	624	337	301	437
MMFH20-110	15	4	1072	502	337	301	440	1232	662	337	301	455
MMFH30-110	22	4	1116	546	374	325	457	1276	706	374	325	478
MMFH40-110	30	4	1162	592	374	316	550	1322	752	374	316	598
MMFH50-110	37	4	1208	638	414	364	590	1368	798	414	364	645
MMFH15-122	11	6	1072	502	337	301	450	1232	662	337	301	465
MMFH20-122	15	6	1116	546	374	325	467	1276	706	374	325	488
MMFH30-122	22	6	1162	592	374	316	560	1322	752	374	316	608
MMFH40-122	30	6	1208	638	404	364	600	1368	798	404	364	655
MMFH50-122	37	6	1208	638	404	364	600	1368	798	404	364	655

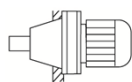
Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

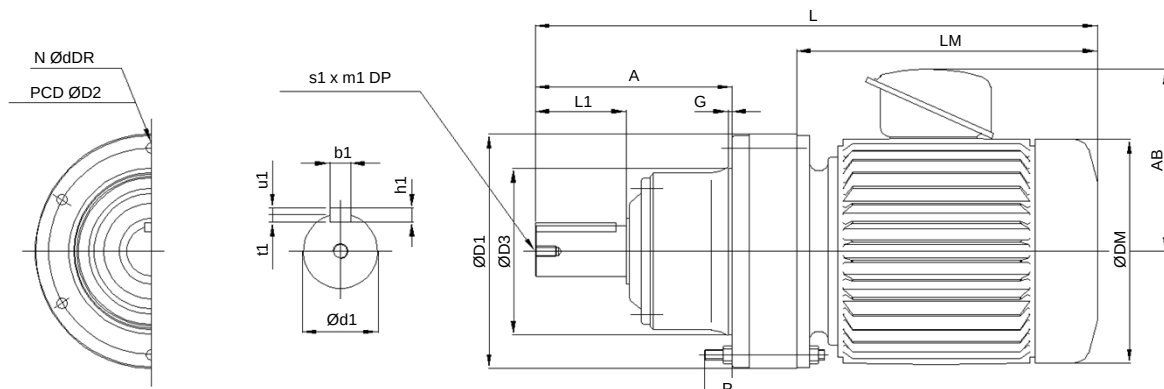
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMFH-Single reduction type

MMFH □ -111~124



Frame	A	D1	D2	D3	N	d	G	P	Output shaft							
									d1	L1	b1	h1	t1	u1	s1	m1
111	514	575	520	420	12	22	10	65	120	210	32	18	11	7	M24	45
124	514	575	520	420	12	22	10	65	140	210	36	20	12	8	M24	45

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMFH20-111	15	6	1199	543	374	325	627	1359	703	374	325	648
MMFH30-111	22	6	1246	590	374	316	733	1406	750	374	316	781
MMFH40-111	30	6	1241	585	404	364	839	1401	745	404	364	887
MMFH50-111	37	6	1241	585	404	364	883	1401	745	404	364	931
MMFH60-111	45	6	1421	765	457	390	989	1601	945	457	390	1047
MMFH75-111	55	6	1460	804	512	450	1036	1640	984	512	450	1094
MMFH20-124	15	6	1199	543	374	325	637	1359	703	374	325	658
MMFH30-124	22	6	1246	590	374	316	743	1406	750	374	316	791
MMFH40-124	30	6	1241	585	404	364	849	1401	745	404	364	897
MMFH50-124	37	6	1241	585	404	364	893	1401	745	404	364	941
MMFH60-124	45	6	1421	765	457	390	999	1566	945	457	390	1057
MMFH75-124	55	6	1460	804	512	450	1046	1606	984	512	450	1104

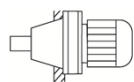
Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

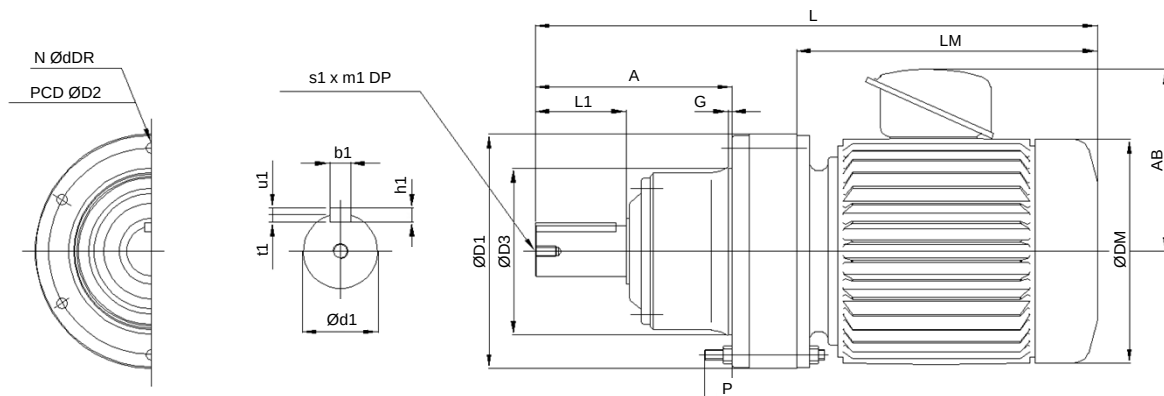
4) Dimensions can be changed without notice.

Case mount							Base mount				Flange mount			
LP		Direct		Adapter			LP	Direct	Adapter		LP	Direct	Adapter	
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMFH-Single reduction type

MMFH □ -112~125



Frame	A	D1	D2	D3	N	d	G	P	Output shaft							
									d1	L1	b1	h1	t1	u1	s1	m1
112	682	710	640	535	12	27	10	80	140	250	36	20	12	8	M30	52
125	682	710	640	535	12	27	10	80	160	250	40	22	13	9	M30	52

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMFH30-112	22	6	1406	553	374	316	1290	1566	713	374	316	1338
MMFH40-112	30	6	1493	640	404	364	1368	1653	800	404	364	1416
MMFH50-112	37	6	1493	640	404	364	1412	1653	800	404	364	1460
MMFH60-112	45	6	1623	770	457	390	4581	1803	950	457	390	1639
MMFH75-112	55	6	1662	809	512	450	1617	1842	989	512	450	1675
MMFH30-125	22	6	1406	553	374	316	1310	1566	713	374	316	1348
MMFH40-125	30	6	1493	640	404	364	1388	1653	800	404	364	1436
MMFH50-125	37	6	1493	640	404	364	1432	1653	800	404	364	1480
MMFH60-125	45	6	1623	770	457	390	1601	1803	950	457	390	1659
MMFH75-125	55	6	1662	809	512	450	1637	1842	989	512	450	1695

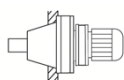
Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

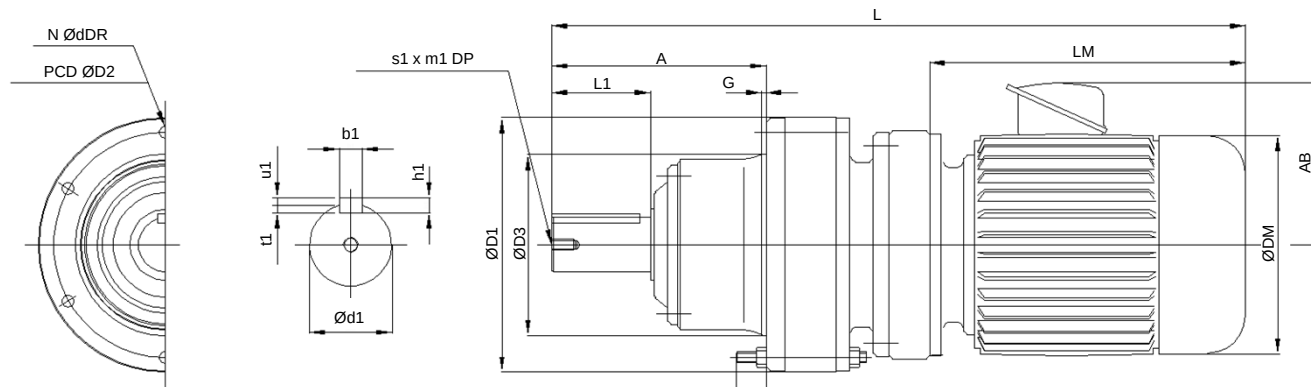
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMFH-Double reduction type

MMFH □ -232~282



Frame	A	D1	D2	D3	N	d	G	P	Output shaft							
									d1	L1	b1	h1	t1	u1	s1	m1
232	137	208	180	140	6	11	4	26	38	55	10	8	5	3	-	-
242	175	232	205	165	6	11	4	27	50	70	14	9	5.5	3.5	M10	20
252	195	232	205	165	6	11	4	27	50	90	14	9	5.5	3.5	M10	20
262	222	307	270	200	6	14	4	32	60	90	18	11	7	4	M10	20
272	262	340	300	250	8	14	5	38	70	90	20	12	7.5	4.5	M12	25
282	299	370	330	280	8	14	5	38	80	110	22	14	9	5	M12	25

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMFH02-232	0.2	4	470	205	138	124	41	570	305	138	124	44
MMFH05-232	0.4	4	504	239	180	162	49	604	339	180	162	53
MMFH 1-232	0.75	4	504	239	180	162	49	604	339	180	162	53
MMFH05-242	0.4	4	556	239	180	162	61	656	339	180	162	65
MMFH 1-242	0.75	4	556	239	180	162	61	656	339	180	162	65
MMFH05-252	0.4	4	576	239	180	162	66	676	339	180	162	70
MMFH 1-252	0.75	4	576	239	180	162	66	676	339	180	162	70
MMFH05-262	0.4	4	625	239	180	162	98	725	339	180	162	102
MMFH 1-262	0.75	4	625	239	180	162	98	725	339	180	162	102
MMFH05-272	0.4	4	677	239	180	162	132	777	339	180	162	136
MMFH 1-272	0.75	4	677	239	180	162	132	777	339	180	162	136
MMFH05-282	0.4	4	713	239	180	162	156	813	339	180	162	161
MMFH 1-282	0.75	4	713	239	180	162	156	813	339	180	162	161

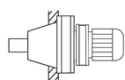
Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

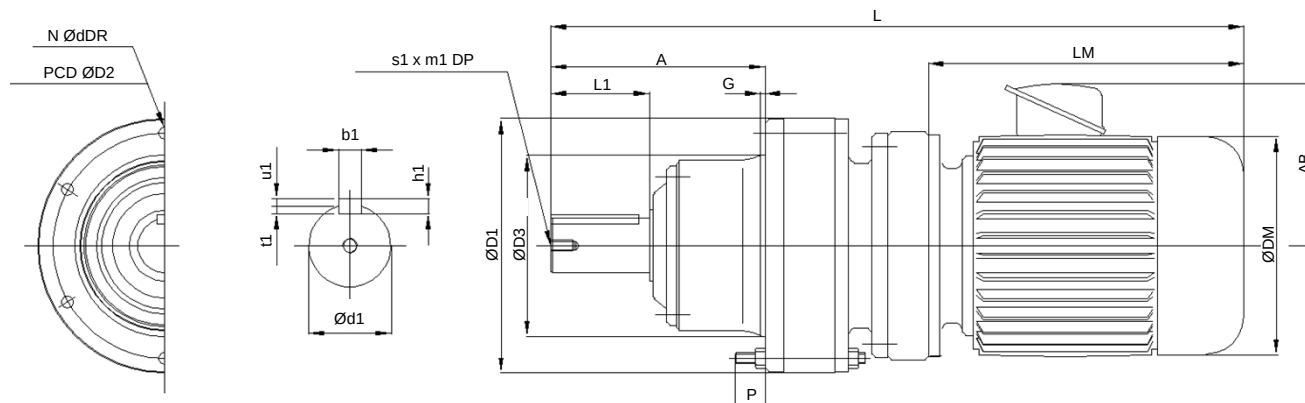
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMFH-Double reduction type

MMFH □-243~284



Frame	A	D1	D2	D3	N	d	G	P	Output shaft							
									d1	L1	b1	h1	t1	u1	s1	m1
243	175	232	205	165	6	11	4	27	50	70	14	9	5.5	3.5	M10	20
253	195	232	205	165	6	11	4	27	50	90	14	9	5.5	3.5	M10	20
263	222	307	270	200	6	14	4	32	60	90	18	11	7	4	M10	20
273	262	340	300	250	8	14	5	38	70	90	20	12	7.5	4.5	M12	25
274	262	340	300	250	8	14	5	38	70	90	20	12	7.5	4.5	M12	25
284	299	370	330	280	8	14	5	38	80	110	22	14	9	5	M12	25

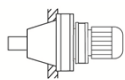
Model	Motor		Motor mounting						Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)		L	LM	DM	AB	weight(KG)
MMFH05-243	0.4	4	570	243	180	162	69		570	343	180	162	73
MMFH 1-243	0.75	4	570	243	180	162	69		670	343	180	162	73
MMFH 2-243	1.5	4	615	288	199	178	78		715	388	199	178	83
MMFH05-253	0.4	4	590	243	180	162	70		690	343	180	162	74
MMFH 1-253	0.75	4	590	243	180	162	70		690	343	180	162	74
MMFH 2-253	1.5	4	635	288	199	178	79		735	388	199	178	84
MMFH05-263	0.4	4	635	243	180	162	109		735	343	180	162	113
MMFH 1-263	0.75	4	635	243	180	162	109		735	343	180	162	113
MMFH 2-263	1.5	4	680	288	199	178	116		780	388	199	178	121
MMFH 3-263	2.2	4	684	292	220	199	132		784	392	220	199	140
MMFH 1-273	0.75	4	682	243	180	162	133		782	343	180	162	137
MMFH 2-273	1.5	4	727	288	199	178	149		827	388	199	178	154
MMFH 3-273	2.2	4	731	292	220	199	154		831	392	220	199	162
MMFH 5-274	3.7	4	764	310	244	216	172		894	440	244	216	183
MMFH 2-284	1.5	4	778	282	199	178	181		878	382	199	178	186
MMFH 3-284	2.2	4	794	298	220	199	187		894	398	220	199	195
MMFH 5-284	3.7	4	806	310	244	216	199		936	440	244	216	208
MMFH 8-284	5.5	4	856	360	284	236	219		986	490	284	236	229

Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension. 3) Applied parallel key (KS B 1311-84) dimension.

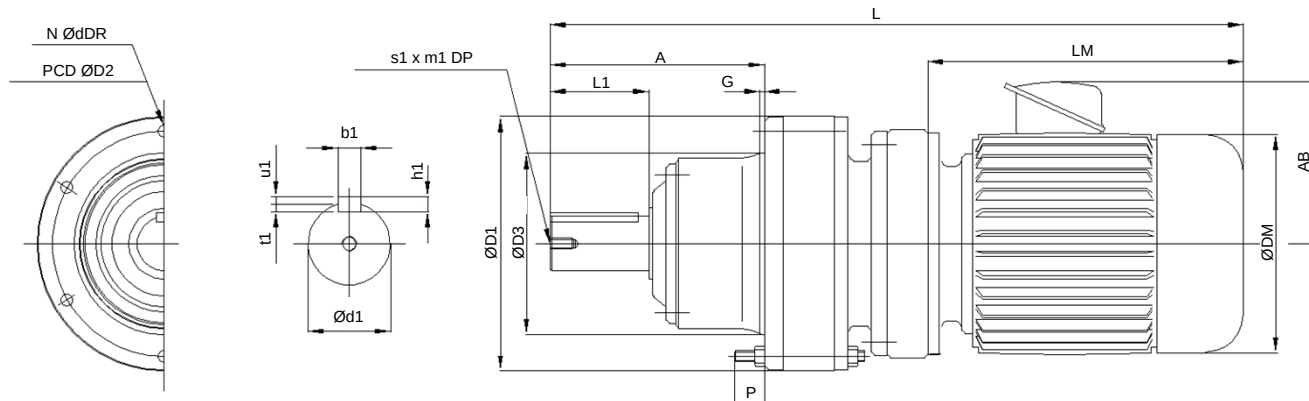
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMFH-Double reduction type

MMFH □ -293~2106



Frame	A	D1	D2	D3	N	d	G	P	Output shaft							
									d1	L1	b1	h1	t1	u1	s1	m1
293	365	430	380	320	12	14	6	38	95	135	25	14	9	5	M20	35
294	365	430	380	320	12	14	6	38	95	135	25	14	9	5	M20	35
296	365	430	380	320	12	14	6	38	95	135	25	14	9	5	M20	35
2104	455	505	450	390	12	22	8	53	110	170	28	16	10	6	M20	35
2106	455	505	450	390	12	22	8	53	110	170	28	16	10	6	M20	35

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMFH 1-293	0.75	4	802	243	180	162	257	902	343	180	162	261
MMFH 2-293	1.5	4	847	288	199	178	265	947	388	199	178	270
MMFH 3-293	2.2	4	851	292	220	199	273	951	392	220	199	281
MMFH 3-294	2.2	4	870	298	220	199	277	970	398	220	199	285
MMFH 5-294	3.7	4	882	310	244	216	284	1012	440	244	216	293
MMFH 8-294	5.5	4	932	360	284	236	301	1062	490	284	236	312
MMFH10-296	7.5	4	988	387	284	236	333	1118	517	284	236	344
MMFH 2-2104	1.5	4	964	282	199	178	410	1064	382	199	178	415
MMFH 3-2104	2.2	4	980	298	220	199	418	1080	398	220	199	426
MMFH 5-2104	3.7	4	992	310	244	216	425	1122	440	244	216	434
MMFH 8-2104	5.5	4	1042	360	284	236	443	1172	490	284	236	454
MMFH 8-2106	5.5	4	1060	335	284	236	450	1190	485	284	236	461
MMFH10-2106	7.5	4	1092	387	284	236	465	1222	517	284	236	476
MMFH15-2106	11	4	1158	453	337	301	501	1318	613	337	301	516

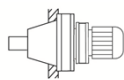
Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

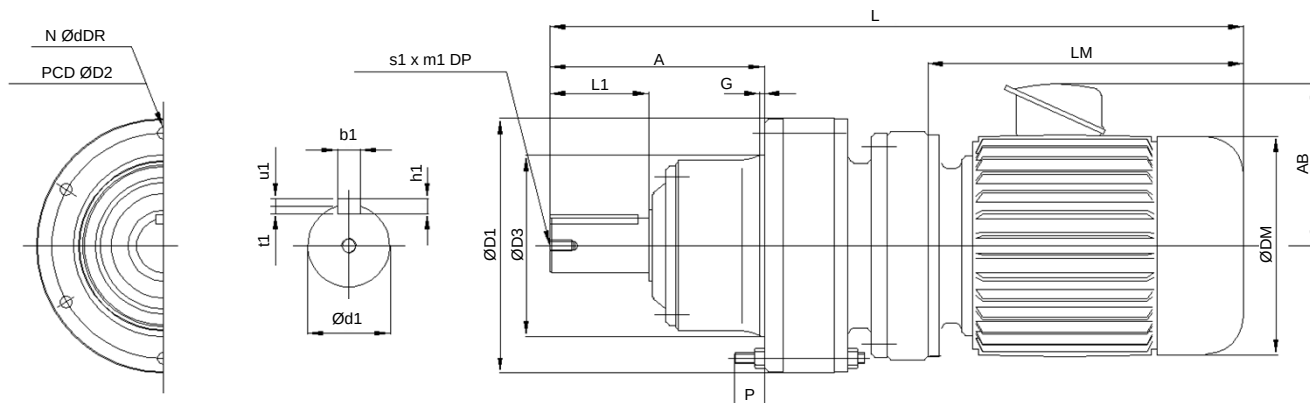
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMFH-Double reduction type

MMFH □ -2116~2247



Frame	A	D1	D2	D3	N	d	G	P	Output shaft							
									d1	L1	b1	h1	t1	u1	s1	m1
2116	514	575	520	420	12	22	10	65	120	210	32	18	11	7	M24	45
2117	514	575	520	420	12	22	10	65	120	210	32	18	11	7	M24	45
2246	514	575	520	420	12	22	10	65	140	210	36	20	12	8	M24	45
2247	514	575	520	420	12	22	10	65	140	210	36	20	12	8	M24	45

Model	Motor		Motor mounting						Brake mounting					
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)		
MMFH 3-2116	2.2	4	1080	292	220	199	546	1180	392	220	199	554		
MMFH 5-2116	3.7	4	1092	304	244	216	553	1222	434	244	216	562		
MMFH 8-2116	5.5	4	1143	355	284	236	571	1273	485	284	236	582		
MMFH10-2116	7.5	4	1175	387	284	236	584	1305	517	284	236	595		
MMFH10-2117	7.5	4	1196	394	284	236	624	1326	524	284	236	635		
MMFH15-2117	11	4	1263	461	337	301	663	1423	601	337	301	678		
MMFH20-2117	15	4	101	499	337	301	690	1461	659	337	301	705		
MMFH 3-2246	2.2	4	1080	292	220	199	556	1180	392	220	199	5564		
MMFH 5-2246	3.7	4	1092	304	244	216	563	1222	434	244	216	572		
MMFH 8-2246	5.5	4	1143	355	284	236	581	1273	485	284	236	592		
MMFH10-2246	7.5	4	1175	387	284	236	594	1305	517	284	236	605		
MMFH10-2247	7.5	4	1196	394	284	236	634	1326	524	284	236	645		
MMFH15-2247	11	4	1263	461	337	301	673	1423	601	337	301	688		
MMFH20-2247	15	4	101	499	337	301	700	1461	659	337	301	715		

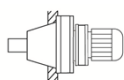
Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

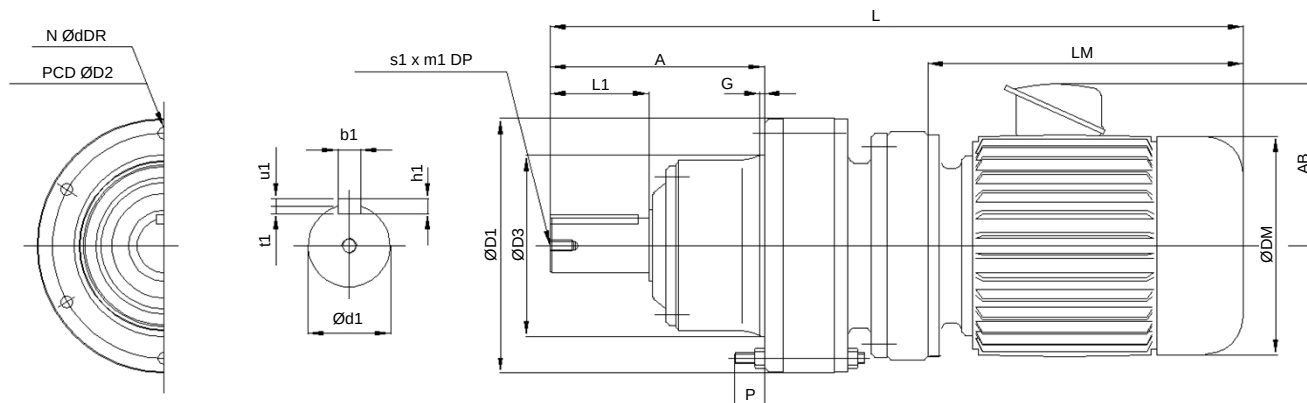
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMFH-Double reduction type

MMFH □-2128~2258



Frame	A	D1	D2	D3	N	d	G	P	Output shaft							
									d1	L1	b1	h1	t1	u1	s1	m1
2128	682	710	640	540	12	27	10	80	140	250	36	20	12	8	M30	52
2258	682	710	640	540	12	27	10	80	160	250	40	22	13	9	3M0	52

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMFH 8-2128	5.5	4	1384	364	284	236	1130	1514	494	284	236	1141
MMFH10-2128	7.5	4	1416	396	284	236	1143	1546	526	284	236	1154
MMFH15-2128	11	4	1483	463	337	301	1174	1643	623	337	301	1189
MMFH20-2128	15	4	1521	501	337	301	1199	1681	661	337	301	1218
MMFH30-2128	22	4	1565	545	374	325	1261	1725	705	374	325	1282
MMFH 8-2258	5.5	4	1384	364	284	236	1150	1514	494	284	236	1161
MMFH10-2258	7.5	4	1416	396	284	236	1163	1546	526	284	236	1174
MMFH15-2258	11	4	1483	463	337	301	1194	1643	623	337	301	1209
MMFH20-2258	15	4	1521	501	337	301	1219	1681	661	337	301	1238
MMFH30-2258	22	4	1565	545	374	325	1281	1725	705	374	325	1302

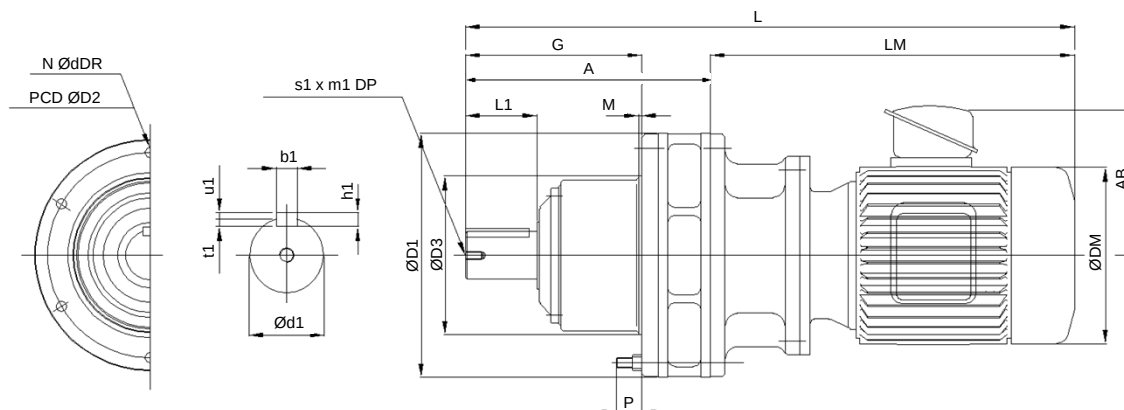
- Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.
2) Applied h6 allowance level for output shaft and input shaft dimension.
3) Applied parallel key (KS B 1311-84) dimension.
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMJFH-Single reduction type

MMJFH □ -102~103



Frame	A	G	D1	D2	D3	P	M	N	d	Output shaft							
										d1	L1	b1	h1	t1	u1	s1	m1
102	156	110	162	138	105	23	5	8	9	28	35	8	7	4	3	-	-
103	189	137	208	180	140	26	4	6	11	38	55	10	8	5	3	-	-

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMJFH02-102	0.2	4	465	309	148	124	25	565	409	148	124	28
MMJFH05-102	0.4	4	496	340	180	162	33	596	440	180	162	37
MMJFH 1-102	0.75	4	496	340	180	162	33	596	440	180	162	37
MMJFH05-103	0.4	4	532	343	180	162	34	632	443	180	162	38
MMJFH 1-103	0.75	4	532	343	180	162	34	632	443	180	162	38
MMJFH 2-103	1.5	4	594	405	199	178	55	694	505	199	178	60
MMJFH 3-103	2.2	4	639	450	220	199	73	739	550	220	199	80

Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

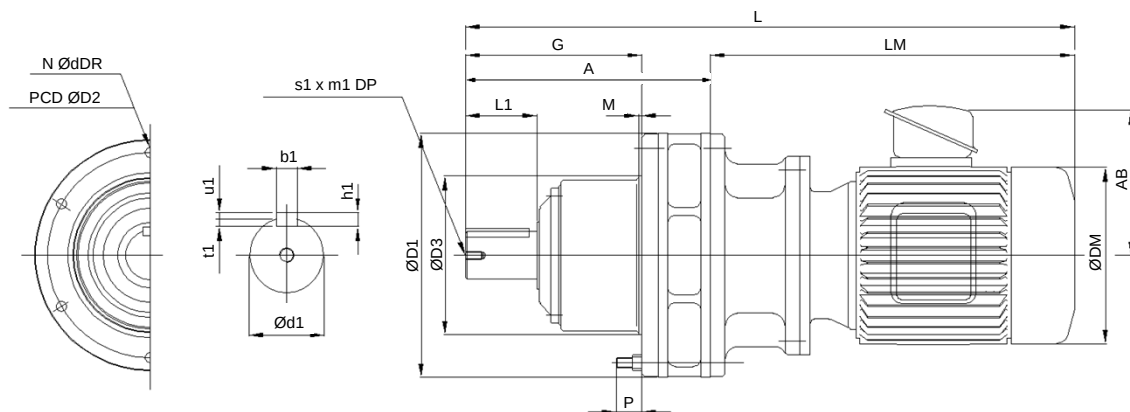
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMJFH-Single reduction type

MMJFH □ -104~107



Frame	A	G	D1	D2	D3	P	M	N	d	Output shaft							
										d1	L1	b1	h1	t1	u1	s1	m1
104	239	175	232	205	165	27	4	6	11	50	70	14	9	5.5	3.5	M10	20
105	259	195	232	205	165	27	4	6	11	50	90	14	9	5.5	3.5	M10	20
106	308	222	307	270	200	32	4	6	14	60	90	18	11	7	4	M10	20
107	352	262	340	300	250	38	5	8	14	70	90	20	12	7.5	4.5	M12	25

Model	Motor		Motor mounting						Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)		L	LM	DM	AB	weight(KG)
MMJFH 1-104	0.75	4	591	352	180	162	59		691	452	180	162	63
MMJFH 2-104	1.5	4	653	414	199	178	75		753	514	199	178	80
MMJFH 3-104	2.2	4	698	459	220	199	93		798	559	220	199	100
MMJFH 5-104	3.7	4	683	444	244	216	97		813	574	244	216	106
MMJFH 2-105	1.5	4	673	414	199	178	77		773	514	199	178	82
MMJFH 3-105	2.2	4	713	459	220	199	95		818	559	220	199	102
MMJFH 5-105	3.7	4	703	444	244	216	99		833	574	244	216	108
MMJFH 3-106	2.2	4	765	457	220	199	134		865	557	220	199	141
MMJFH 5-106	3.7	4	750	442	244	216	138		880	572	244	216	147
MMJFH 8-106	5.5	4	819	511	284	236	176		949	641	284	236	185
MMJFH10-106	7.5	4	857	549	284	236	182		987	679	284	236	192
MMJFH 5-107	3.7	4	799	447	244	216	169		929	577	244	216	178
MMJFH 8-107	5.5	4	881	529	284	236	183		1011	659	284	236	192
MMJFH10-107	7.5	4	919	567	284	236	190		1049	697	284	236	201
MMJFH15-107	11	4	1004	652	337	301	251		1134	782	337	301	266
MMJFH20-107	15	4	1048	696	337	301	259		1178	826	337	301	274

Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

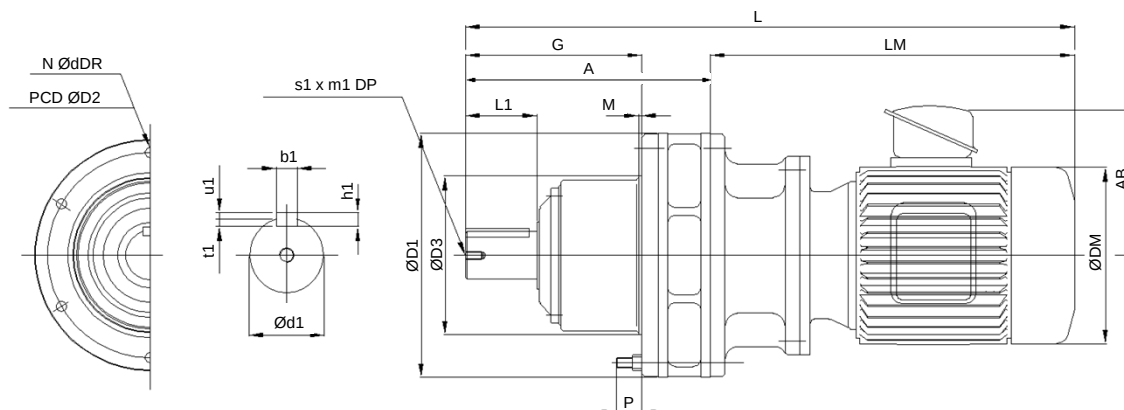
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMJFH-Single reduction type

MMJFH □ -108~122



Frame	A	G	D1	D2	D3	P	M	N	d	Output shaft							
										d1	L1	b1	h1	t1	u1	s1	m1
108	389	299	370	330	280	38	5	8	14	80	110	22	14	9	5	M12	25
109	465	365	430	380	320	38	6	12	14	95	135	25	14	9	5	M20	35
110	570	455	505	450	390	53	8	12	22	110	170	28	16	10	6	M20	35
122	570	455	505	450	390	53	8	12	22	120	170	32	18	4	7	M20	35

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMJFH 8-108	5.5	4	912	523	284	236	240	1042	653	284	236	251
MMJFH10-108	7.5	4	950	561	284	236	245	1080	691	284	236	256
MMJFH15-108	11	4	1035	646	337	301	305	1165	776	337	301	324
MMJFH20-108	15	4	1079	690	337	301	313	1209	820	337	301	332
MMJFH10-109	7.5	4	1028	563	284	236	360	1158	693	284	236	371
MMJFH15-109	11	4	1113	648	337	301	422	1243	778	337	301	441
MMJFH20-109	15	4	1157	692	337	301	430	1287	822	337	301	457
MMJFH30-109	22	4	1197	732	374	325	453	1357	892	374	325	480
MMJFH15-110	11	4	1224	654	337	301	527	1354	784	337	301	547
MMJFH20-110	15	4	1268	698	337	301	535	1398	828	337	301	555
MMJFH30-110	22	4	1308	738	374	325	566	1468	898	374	325	593
MMJFH40-110	30	4	1346	776	374	316	582	1506	936	374	316	609
MMJFH15-122	11	6	1268	698	337	301	545	1398	828	337	301	565
MMJFH20-122	15	6	1308	738	374	325	576	1468	898	374	325	603
MMJFH30-122	22	6	1346	776	374	316	592	1506	936	374	316	619
MMJFH40-122	30	6	1420	850	404	364	705	1580	1010	404	364	732
MMJFH50-122	37	6	1420	850	404	364	705	1580	1010	404	364	732

Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

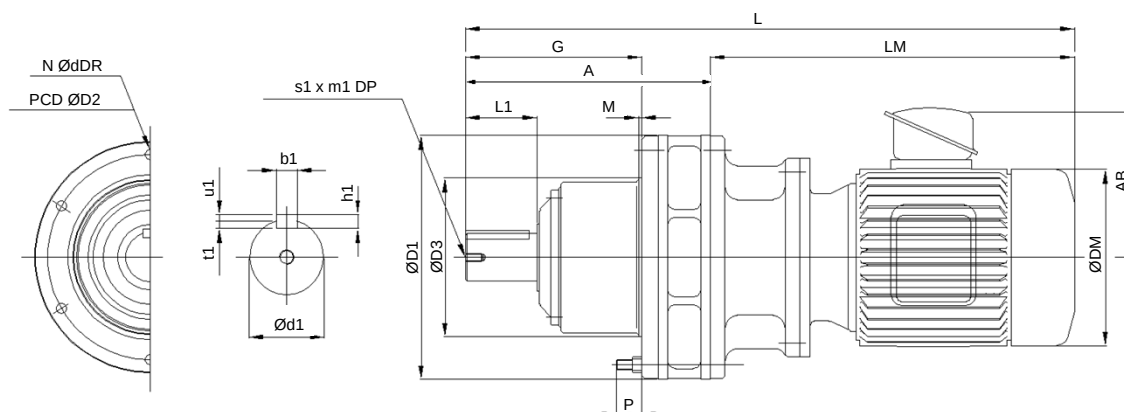
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMJFH-Single reduction type

MMJFH □ -111~125



Frame	A	G	D1	D2	D3	P	M	N	d	Output shaft							
										d1	L1	b1	h1	t1	u1	s1	m1
111	656	514	575	520	420	65	10	2	22	120	210	32	18	11	7	24	45
124	656	514	575	520	420	65	10	2	22	120	210	32	18	11	7	24	45
112	853	682	710	640	535	80	10	12	27	140	250	36	20	12	8	30	52
125	853	682	710	640	535	80	10	12	27	140	250	36	20	12	8	30	52

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMJFH20-111	15	6	1347	691	374	325	617	1507	851	374	325	638
MMJFH30-111	22	6	1406	750	374	316	723	1566	910	374	316	771
MMJFH40-111	30	6	1511	855	404	364	829	1671	1015	404	364	877
MMJFH50-111	37	6	1511	855	404	364	873	1671	1015	404	364	921
MMJFH30-112	22	6	1675	822	374	316	1190	1835	982	374	316	1238
MMJFH40-112	30	6	1749	896	404	364	1268	1909	1056	404	364	1316
MMJFH50-112	37	6	1749	896	404	364	1312	1909	1056	404	364	1360
MMJFH20-124	15	6	1347	691	374	325	627	1507	851	374	325	648
MMJFH30-124	22	6	1406	750	374	316	733	1566	910	374	316	781
MMJFH40-124	30	6	1511	855	404	364	839	1671	1015	404	364	887
MMJFH50-124	37	6	1511	855	404	364	883	1671	1015	404	364	931
MMJFH30-125	22	6	1675	822	374	316	1210	1835	982	374	316	1258
MMJFH40-125	30	6	1749	896	404	364	1288	1909	1056	404	364	1336
MMJFH50-125	37	6	1749	896	404	364	1322	1909	1056	404	364	1380

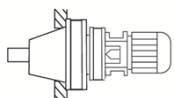
Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

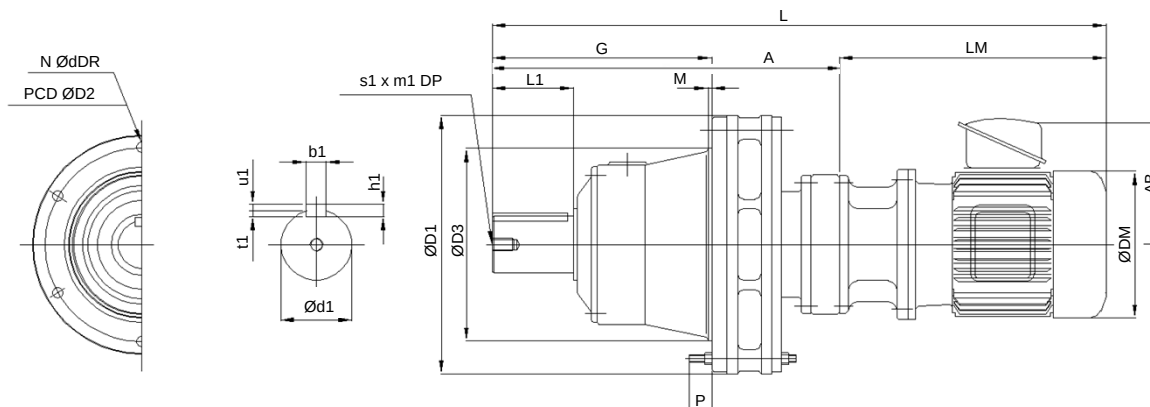
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMJFH-Double reduction type

MMJFH □ -232~282



Frame	A	G	D1	D2	D3	P	M	N	d	Output shaft							
										d1	L1	b1	h1	t1	u1	s1	m1
232	265	137	208	180	140	26	4	6	11	38	55	10	8	5	3	-	-
242	317	175	232	205	165	27	4	6	11	50	70	14	9	5.5	3.5	M10	20
252	337	195	232	205	165	27	4	6	11	50	90	14	9	5.5	3.5	M10	20
262	386	222	307	270	200	32	4	6	14	60	90	18	11	7	4	M10	20
272	438	262	340	300	250	38	5	8	14	70	90	20	12	7.5	4.5	M12	25
282	474	299	370	330	280	38	5	8	14	80	110	22	14	9	5	M12	25

Model	Motor		Motor mounting						Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)		L	LM	DM	AB	weight(KG)
MMJFH02-232	0.2	4	574	309	148	124	46		674	409	148	124	48
MMJFH05-232	0.4	4	605	340	180	162	51		705	440	180	162	57
MMJFH 1-232	0.75	4	605	340	180	162	51		705	440	180	162	57
MMJFH02-242	0.2	4	626	309	148	124	56		726	409	148	124	61
MMJFH05-242	0.4	4	657	340	180	162	78		757	440	180	162	83
MMJFH02-252	0.2	4	646	309	148	124	60		746	409	148	124	63
MMJFH05-252	0.4	4	677	340	180	162	81		777	440	180	162	84
MMJFH02-262	0.2	4	695	309	148	124	107		795	409	148	124	110
MMJFH05-262	0.4	4	726	340	180	162	128		826	440	180	162	131
MMJFH02-272	0.2	4	747	309	148	124	136		847	409	148	124	140
MMJFH05-272	0.4	4	778	340	180	162	157		878	440	180	162	161
MMJFH05-282	0.4	4	814	340	180	162	198		914	440	180	162	202

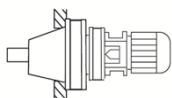
Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

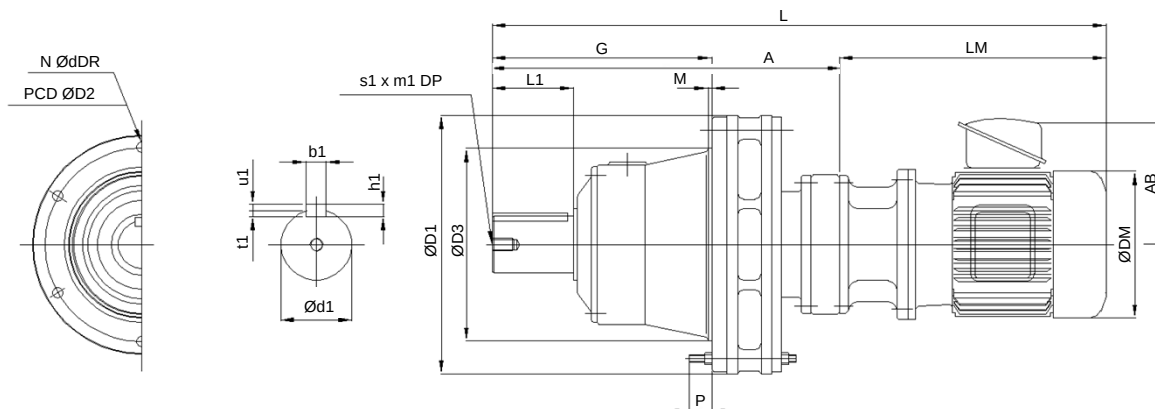
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMJFH-Double reduction type

MMJFH □ -243~284



Frame	A	G	D1	D2	D3	P	M	N	d	Output shaft							
										d1	L1	b1	h1	t1	u1	s1	m1
243	327	175	232	205	165	27	4	6	11	50	70	14	9	5.5	3.5	M10	20
253	347	195	232	205	165	27	4	6	11	50	90	14	9	5.5	3.5	M10	20
263	392	222	307	270	200	32	4	6	14	60	90	18	11	7	4	M10	20
273	439	262	340	300	250	38	5	8	14	70	90	20	12	7.5	4.5	M12	25
274	454	262	340	300	250	38	5	8	14	70	90	20	12	7.5	4.5	M12	25
284	496	299	370	330	280	38	5	8	14	80	110	22	14	9	5	M12	25

Model	Motor		Motor mounting					Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)	L	LM	DM	AB	weight(KG)
MMJFH 1-243	0.75	4	670	343	180	162	68	770	443	180	135	72
MMJFH 2-243	1.5	4	732	405	199	178	86	832	505	199	150	91
MMJFH 1-253	0.75	4	690	343	180	162	73	790	443	180	135	76
MMJFH05-263	0.4	4	735	343	180	162	122	835	443	180	135	126
MMJFH 1-263	0.75	4	735	343	180	162	122	835	443	180	135	126
MMJFH 2-263	1.5	4	797	405	199	178	138	897	505	199	150	143
MMJFH 3-263	2.2	4	842	450	220	199	155	942	550	200	160	162
MMJFH 1-273	0.75	4	782	343	180	162	152	882	443	180	135	155
MMJFH 2-273	1.5	4	844	405	199	178	171	944	505	199	150	175
MMJFH 3-273	2.2	4	889	450	220	199	188	989	550	220	160	195
MMJFH 5-274	3.7	4	898	444	244	216	207	1028	574	244	180	216
MMJFH 1-284	0.75	4	848	352	180	162	217	948	452	180	135	219
MMJFH 2-284	1.5	4	910	414	199	178	221	1010	514	199	150	226
MMJFH 3-284	2.2	4	955	459	220	199	235	1055	559	220	160	243
MMJFH 5-284	3.7	4	940	444	244	216	243	1070	574	244	180	252

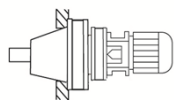
Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) 출2력축, Input shaft dimension 공차는 h6를 적용 했습니다.

3) Applied parallel key (KS B 1311-84) dimension.

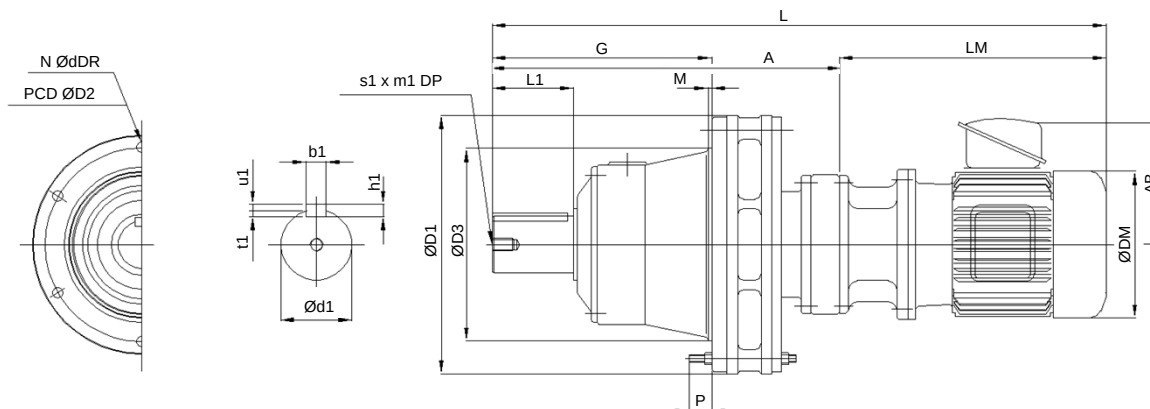
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMJFH-Double reduction type

MMJFH □ -293~2226



Frame	A	G	D1	D2	D3	P	M	N	d	Output shaft							
										d1	L1	b1	h1	t1	u1	s1	m1
293	559	365	430	380	320	38	6	12	14	95	135	25	14	9	5	M20	35
294	572	365	430	380	320	38	6	12	14	95	135	25	14	9	5	M20	35
296	601	365	430	380	320	38	6	12	14	95	135	25	14	9	5	M20	35
2104	682	455	505	450	390	53	8	12	22	110	170	28	16	10	6	M20	35
2106	705	455	505	450	390	53	8	12	22	110	170	28	16	10	6	M20	35
2224	682	455	505	450	390	53	8	12	22	120	170	32	18	11	7	M20	35
2226	682	455	505	450	390	53	8	12	22	120	170	32	18	11	7	M20	35

Model	Motor		Motor mounting						Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)		L	LM	DM	AB	weight(KG)
MMJFH 1-293	0.75	4	902	343	180	162	271		1002	443	180	162	275
MMJFH 2-293	1.5	4	964	405	199	178	288		1064	505	199	178	293
MMJFH 2-294	1.5	4	986	414	199	178	301		1086	514	199	178	305
MMJFH 3-294	2.2	4	1031	459	220	199	315		1131	559	220	199	322
MMJFH 5-294	3.7	4	1016	444	244	216	319		1146	574	244	216	328
MMJFH10-296	7.5	4	1150	549	284	236	401		1280	679	284	236	412
MMJFH 2-2104	1.5	4	1096	414	199	178	450		1196	514	199	178	455
MMJFH 3-2104	2.2	4	1141	459	220	199	469		1241	559	220	199	475
MMJFH 5-2104	3.7	4	1126	444	244	216	472		1256	574	244	216	481
MMJFH 8-2106	5.5	4	1216	511	284	236	511		1346	641	284	236	522
MMJFH10-2106	7.5	4	1254	549	284	236	218		1384	679	284	236	529
MMJFH 2-2224	1.5	4	1096	414	199	178	460		1196	514	199	178	465
MMJFH 3-2224	2.2	4	1141	459	220	199	479		1241	559	220	199	485
MMJFH 5-2224	3.7	4	1126	444	244	216	482		1256	574	244	216	491
MMJFH 8-2226	5.5	4	1216	511	284	236	521		1346	641	284	236	533
MMJFH10-2226	7.5	4	1254	549	284	236	228		1384	679	284	236	539

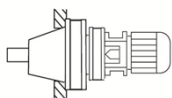
Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension.

3) Applied parallel key (KS B 1311-84) dimension.

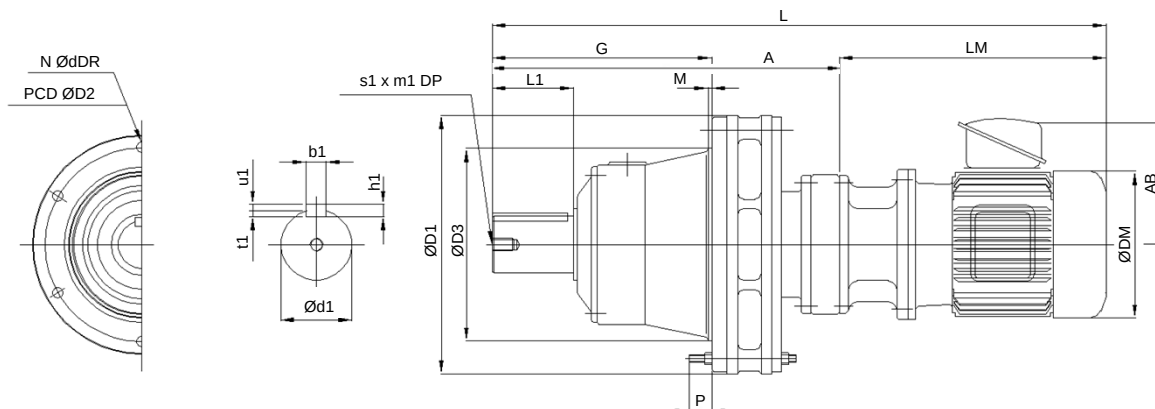
4) Dimensions can be changed without notice.

Case mount								Base mount				Flange mount		
LP		Direct		Adapter				LP	Direct	Adapter		LP	Direct	Adapter
MSH	MSHS	MMH	MMHS	MMJH	MMJHS	MJH	MJHS	MSV	MMV	MMJV	MJV	MSFH	MMFH	MMJFH



MMJFH-Double reduction type

MMJFH □ -2116~2258



Frame	A	G	D1	D2	D3	P	M	N	d	Output shaft							
										d1	L1	b1	h1	t1	u1	s1	m1
2116	788	514	575	520	420	65	10	12	22	120	210	32	18	11	7	M24	45
2117	802	514	575	520	420	65	10	12	22	120	210	32	18	11	7	M24	45
2246	788	514	575	520	420	65	10	12	22	140	210	36	20	12	8	M24	45
2247	802	514	575	520	420	65	10	12	22	140	210	36	20	12	8	M24	45
2128	1020	682	710	640	540	80	10	12	27	140	250	36	20	12	8	M30	52
2258	1020	682	710	640	540	80	10	12	27	160	250	40	22	13	9	M30	52

Model	Motor		Motor mounting						Brake mounting				
	KW	POLE	L	LM	DM	AB	weight(KG)		L	LM	DM	AB	weight(KG)
MMJFH 3-2116	2.2	4	1245	457	220	199	596		1345	557	220	199	603
MMJFH 5-2116	3.7	4	1230	442	244	216	600		1360	572	244	216	609
MMJFH 8-2116	5.5	4	1299	511	284	236	633		1429	641	284	236	644
MMJFH10-2116	7.5	4	1337	549	284	236	640		1467	679	284	236	649
MMJFH 8-2117	5.5	4	1331	529	2284	236	640		1461	659	2284	236	649
MMJFH10-2117	7.5	4	1369	567	284	236	647		1499	6977	284	236	658
MMJFH15-2117	11	4	1454	652	337	301	703		1584	782	337	301	722
MMJFH20-2117	15	4	1498	696	337	301	711		1628	826	337	301	703
MMJFH 5-2246	3.7	4	1230	442	244	216	610		1360	572	244	216	619
MMJFH 8-2246	5.5	4	1299	511	284	236	643		1429	641	284	236	654
MMJFH10-2246	7.5	4	1337	549	284	236	650		1467	679	284	236	661
MMJFH20-2247	15	4	1498	696	337	301	721		1628	826	337	301	740
MMJFH 8-2128	5.5	4	1543	523	284	236	1164		1673	653	284	236	1175
MMJFH10-2128	7.5	4	1581	561	284	236	1171		1711	691	284	236	1182
MMJFH15-2128	11	4	1666	646	337	301	1230		1796	776	337	301	1249
MMJFH20-2128	15	4	1710	690	337	301	1238		1840	820	337	301	1259
MMJFH10-2258	7.5	4	1581	561	284	236	1186		1711	691	284	236	1207
MMJFH15-2258	11	4	1666	646	337	301	1245		1796	776	337	301	1264
MMJFH20-2258	15	4	1710	690	337	301	1253		1840	820	337	301	1272

Note 1) Depending on the manufacturer of the Motor and brake can have a different dimensions.

2) Applied h6 allowance level for output shaft and input shaft dimension. 3) Applied parallel key (KS B 1311-84) dimension.

4) Dimensions can be changed without notice.



HDM Drive
합 동 감 속 기

M-Drive



1

About Us

2

About M-Drive

3

Selection Process

4

Selection Tables

5

Dimensions

6

User Manual

7

Technical Information

1. Installation

- For horizontal type, a reducer should be installed on the level surface. If installation on the inclined surface is required, please discuss with the sales department in advance.
- For convenient and continuous maintenance, particularly for regular lubrication maintenance, a reducer must be installed in an easily accessible location.
- The location where the reducer is installed must be designed to be able to bear the weight of the reducer and other devices as well as the stress and shocks of the operation.
- When connecting the reducer with a motor or machines, shafts (both input and output) must be placed accurately (either parallel or in a concentric formation), and the connecting belt or chain must be adequately tight.
- Do NOT apply excessive force when assembling parts that are connected to the input/output shaft – gear, pulley, sprocket, etc. To consider overhung loads, select those connecting parts that have a adequately large diameter and place them close to the main body.
- After a test operation, the reducer must be firmly fixed to the installed surface with pins and bolts.
- If the reducer is installed in a sealed location, a ventilation system must be provided.

2. Lubrication

2-1) Selection of lubrication type

In general, the lubrication type is selected on the basis of frame size and reduction ratio.

Normal lubrication type for single reduction type model

Frame Type	102	103	104	105	106	107	108	109	110	122	111	124	112	125
Horizontal	Grease		Oil bath											
Vertical			Oil pump or Oil bath											

Normal lubrication type for double reduction type model

Frame Type	232	242	252	262	272	282	243	253	263	273 274	284	293 294 296	2104 2106	2224 2226	2116 2117	2246 2247	2128 2258	
Horizontal							Oil bath											
Vertical	Red. ratio: 121-493																	
	Red. ratio: 595-841																	
	Red. ratio: 957-1015	Grease										Oil pump or Oil bath						
	Red. ratio: 1225-2523																	
	Red. ratio: 2537-3045																	
	Red. ratio: 3481-7569																	

2-2) Oil-based lubrication

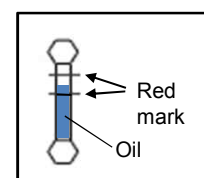
- Recommended lubrication oil products

Temperature (°C)	SHELL	MOBIL	CASTROL	Kukdong
0°C~35°C	OMALA OIL 220	MOBILGEAR 600XP 220	ALPHA SP220	SUPER EP220

※ If the ambient temperature is higher or lower than that given in the above range, please select a different oil product.

- Guidelines for oil injection

- Before operation, inject oil through the oil hole until the oil reaches the red mark line of the oil level gauge.
- If an excessive amount of oil is injected, the temperature of the reducer can increase, as stirring a massive amount of oil can create heat and cause oil leakage in the input side.
- To release oil, open the drain plug or bottom plug of the oil level gauge.
- Open the air vent plug when injecting oil in the base-vertical (down) type reducer, and tape and seal the plug after injection.



< Oil level gauge >

- Amount of oil to be injected

Single reduction type

(Unit : ℓ)

FRAME	104	105	106	107	108	109	110 122	111 124	112 125
Horizontal	0.8	0.8	1.6	1.8	2.5	4.4	7.8	15	30
Vertical	1.2	1.2	1.6	2.0	2.2	2.9	11	15	32

Double reduction type

(Unit : ℓ)

FRAME	243 253	263	273	274	284	293	294	296	2104 2224	2106 2226	2116 2246	2117 2247	2128 2258
Horizontal	0.8	1.6	2.4	2.4	3.6	6.4	6.6	6.6	11	11	18	18	30
Vertical	1.3	1.6	2.0	2.1	2.2	2.9	2.9	3.0	11	11	15	15	37

- Oil lubrication cycle

Oil change cycle		Operation condition
First lubrication	After 300 operation hours	No difference
Next lubrication cycle	6 months	10 operation hours per day
	2,500 operation hours	10~24 operation hours per day
	1~3 months	High temperature/high humidity/ other extreme conditions

- If oil temperature is higher than 80°C, the oil lubrication cycle should be shortened by half for every 10°C over 80°C (e.g., if the oil temperature is 90°C, the lubrication cycle should be every 3 months under 10 operation hours per day)
- To restart a reducer that has not functioned for over a month, operate the reducer for 2~3 minutes under no-load condition and change the oil.

2-3) Grease lubrication

- Recommended grease products

Temperature (°C)	SHELL	MOBIL	CASTROL	Kukdong
-10°C~50°C	ALVANIA RL GREASE 2	LUX EP 2	SPHEEROL EPL 2	KD EP GREASE 2

※ If the ambient temperature is higher or lower than the above range, select a different grease lubrication product.

- Refill/change cycle

	Operation condition	Cycle
Refill	All conditions	Not required
Change	< 10 operation hours per day	20,000 hours
	10~24 operation hours per day	4~5 years

※ To change grease, the reducer must be disassembled first. To refill, inject a small amount of grease to the grease nipple.

- Amount of grease injection required to change grease

FRAME	102	103	242	252	262	272	282	263	273 274
First reduction part	90	270	60	60	60	60	60	170	170
Output bearing	80	120	330	330	330	550	660	330	550
Second reduction part	-	-	490	490	800	1,000	1,100	800	1,000
FRAME	284	293	294	2104 2224	2106 2226	2116 2246	2117 2247	2128 2258	
First reduction part	490	170	490	490	800	800	1,100	1,200	
Output bearing	650	750	750	950	950	1,100	1,100	1,100	
Second reduction part	1,200	1,600	1,600	2,700	2,700	5,000	5,000	8,500	

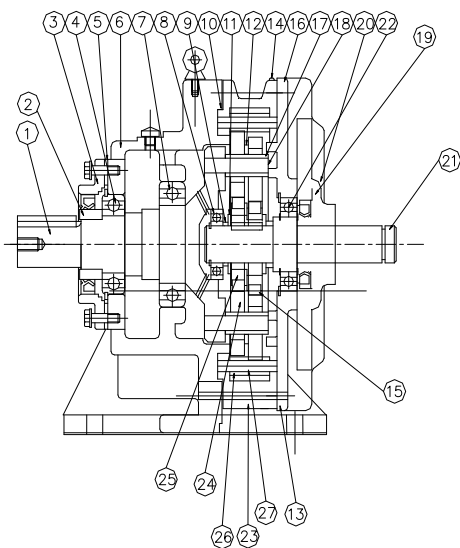
- Grease maintenance guidelines:
 - Grease type does not require frequent refills or changes.
 - Consider refilling when there is an abnormal temperature increase or there is some noise. Please note that both excessive and insufficient amount of grease can increase the temperature.
 - When a refill is needed, inject 1/3~1/2 of the change amount to the first reduction part (refer to the above table).
 - For easy injection, inject using a grease gun through the grease nipple while the reducer is in operation.
 - To change grease, disassemble the reducer first, wash each part, apply grease as instructed in the above table, and reassemble to finalize.

3. Daily maintenance

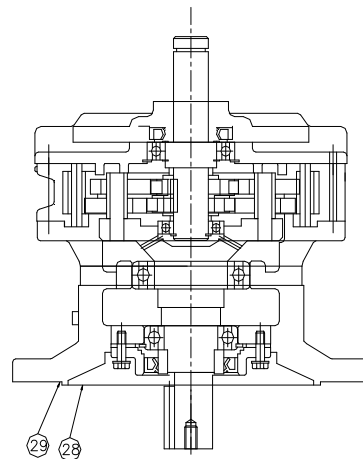
- Check the oil level gauge.
- Check the surface temperature of the ring gear housing. When the surface temperature is approximately 60°C and does not fluctuate, the reducer is considered stable. When the temperature increases abnormally without any change in operational conditions, inject grease or oil immediately. If the temperature still does not stabilize, contact us or the sales agent.
- When there is an abnormal noise from inside of the reducer, stop the operation and check the reducer immediately.
- When oil or grease leaks, check the leaking parts and replace worn or damaged parts.

4. List of parts

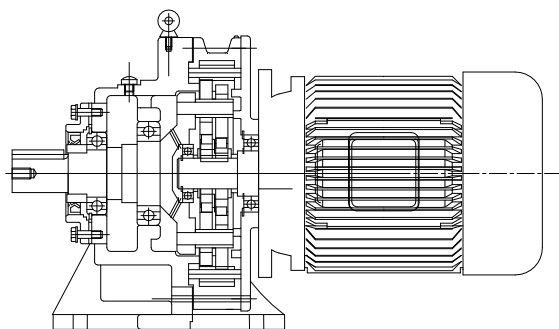
MSH (Single reduction type)



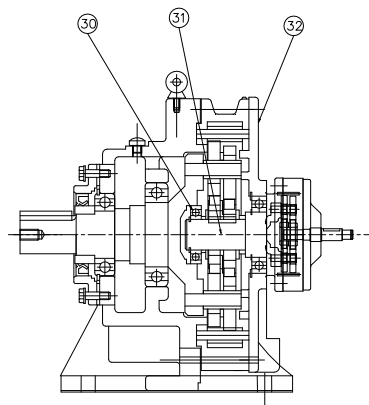
MSV (Single reduction type)



MMH (Single reduction type)



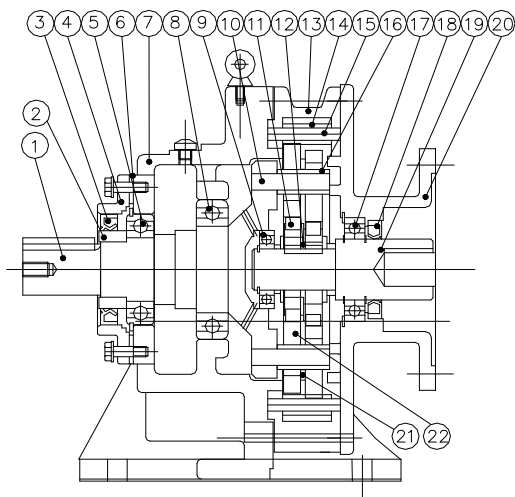
MSH (Double reduction type)



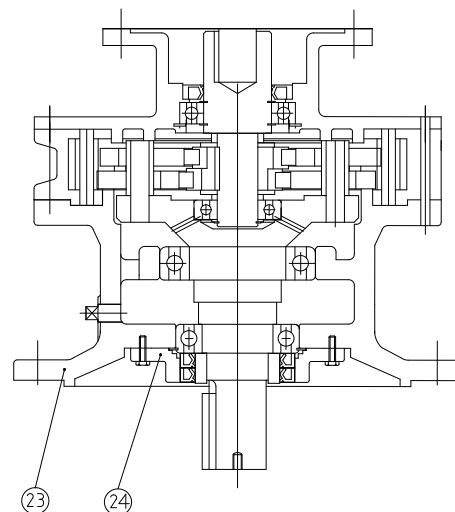
No.	Name of part	No.	Name of part	No.	Name of part	No.	Name of part
1	Slow Speed Shaft	9	Spacer	17	Slow Speed Shaft Roller	25	Eccentric
2	Collar	10	Gasket	18	Slow Speed Shaft Pin	26	Ring Gear Roller
3	Slow Speed End Cap	11	End Plate	19	Cooling Fan	27	Ring Gear Pin
4	Bearing	12	Spacer Ring	20	Fan Cover	28	Gland
5	Gasket	13	Gasket	21	High Speed Shaft	29	Base
6	Case	14	Air Vent	22	Bearing	30	Bearing
7	Bearing	15	Roller Bearing	23	Ring Gear Housing	31	Intermediate Shaft
8	Bearing	16	High Speed End Shield	24	Cycloidal Disc	32	Intermediate Cover

6 User Manual

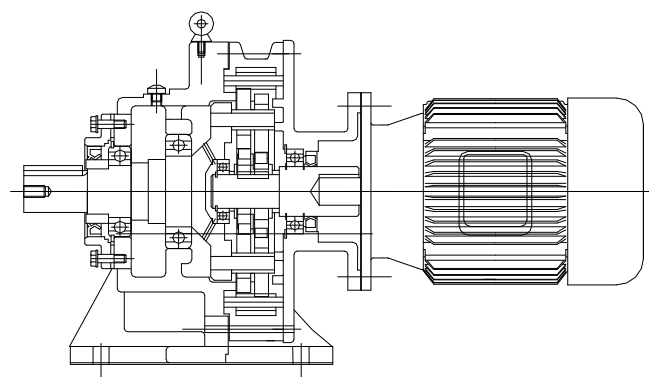
MJH (Single reduction type)



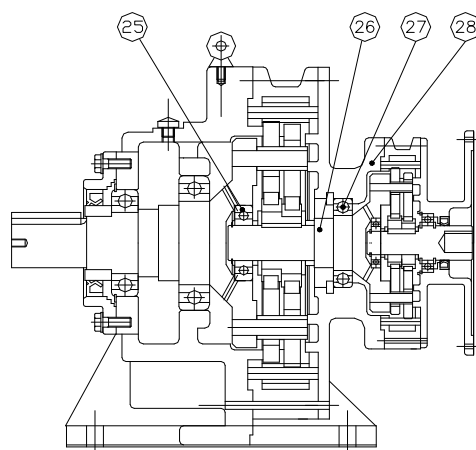
MJV (Single reduction type)



MMJH (Single reduction type)



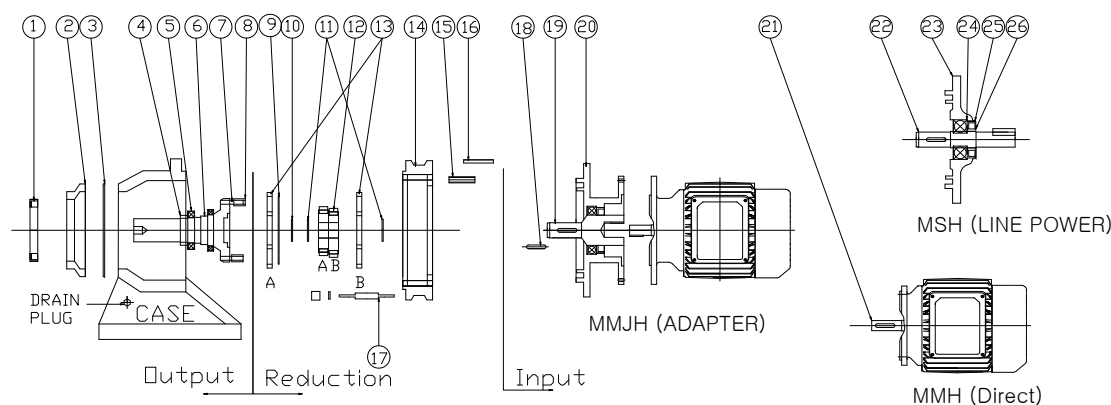
MJH (Double reduction type)



No.	Name of part	No.	Name of part	No.	Name of part	No.	Name of part
1	Slow Speed Shaft	8	Ball Bearing	15	Ring Gear Pin	22	Cycloidal Disc
2	Collar	9	Roller Bearing	16	Slow Speed Shaft Roller	23	Base
3	Oil Seal	10	Slow Speed Shaft Pin	17	Oil Seal	24	Gland
4	Slow Speed End Cap	11	Roller Bearing	18	Ball Bearing	25	Roller Bearing
5	Ball Bearing	12	Eccentric	19	Hollow Input Shaft	26	Intermediate Shaft
6	Gasket	13	Ring Gear Housing	20	Adapter	27	Ball Bearing
7	Case	14	Ring Gear Roller	21	Spacer Ring	28	Intermediate Cover

5. Disassembling and assembling

5-1) Disassembling



● Detaching output part

For oil lubrication type, release the oil drain plug and drain oil fully before disassembling. Place output shaft in the “up” direction, release the housing bolts(20), insert the eye bolt in the output shaft, and lift output part to detach it from the rest of the reducer.

● Disassembling output part

2 SLOW SPEED END CAP → 1 OIL SEAL → 3 GASKET → 6 SLOW SPEED SHAFT → 5 BEARING → 4 COLLAR

● Disassembling reduction + input part (per type)

Adapter type (J or MJ type)

8 SLOW SPEED SHAFT ROLLER → 13 CYCLOIDAL DISC A → 9 SPACER RING → 10 RETAINING RING → 11 END PLATE → 12 ECCENTRIC ROLLER BEARING → 24 CYCLOIDAL DISC B → 17 KEY → 11 END PLATE → 14 RING GEAR HOUSING → 16 RING GEAR PIN → 15 RING GEAR ROLLER → 19 MJ FLANGE → 18 MJ SHAFT → 20 MOTOR

Direct connecting type (M type)

8 SLOW SPEED SHAFT ROLLER → 13 CYCLOIDAL DISC A → 9 SPACER RING → 10 RETAINING RING → 11 END PLATE → 12 ECCENTRIC ROLLER BEARING → 24 CYCLOIDAL DISC B → 17 KEY → 11 END PLATE → 14 RING GEAR HOUSING → 16 RING GEAR PIN → 15 RING GEAR ROLLER → 20 MOTOR

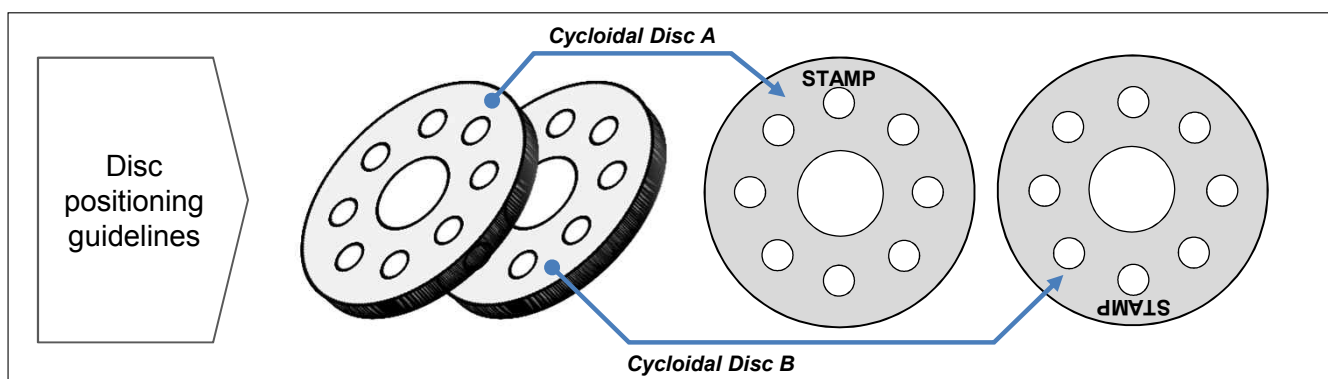
Line Power type (S type)

8 SLOW SPEED SHAFT ROLLER → 13 CYCLOIDAL DISC A → 9 SPACER RING → 10
 RETAINING RING → 11 END PLATE → 12 ECCENTRIC ROLLER BEARING → 24 CYCLOIDAL
 DISC B → 17 KEY → 11 END PLATE → 14 RING GEAR HOUSING → 16 RING GEAR PIN → 15
 RING GEAR ROLLER → 23 HIGH SPEED END SHIELD → 22 HIGH SPEED SHAFT → 24
 BEARING → 25 OIL SEAL → 26 COLLAR

5-2) Reassembling

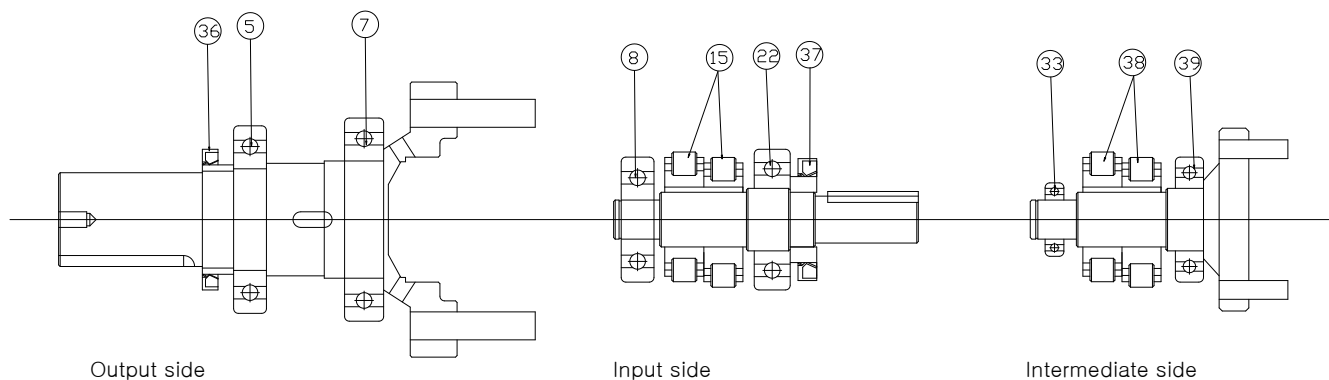
Reassembling the M-Drive commences in reverse order of disassembling.

- When assembling, place the cycloidal discs (both A and B) with the stamped side facing the same direction, but the stamps must be 180° opposite to each other.



- If the oil seal, collar, or gasket is damaged or worn, replace to prevent oil leakage. Moreover, the plug and pipe-connecting bolt should be tightly sealed with sealing tape.

6. Standardized parts (replaceable)



● Bearing and oil seal (Single reduction type)

FRAME NO.	BEARING						OIL SEAL						
	Output side		Input side				Output side				Input side		
	5	7	8	15	22		36				37		
	BRG NO.	BRG NO.	BRG NO.	BRG NO.	Qty.	BRG NO. LP TYPE	TYPE	Spec	Qty.		TYPE	Spec	Qty.
									H TYPE	V TYPE			
102	6206	6206	6301	own production	2	6302	D	45/62*9	1	1	S	20/35*8	1
103	6208	6208	6303	own production	2	6305	D	58/80*12	1	1	D	32/52*10	1
104	6211NR	6213	6403	own production	2	6306	D	65/90*12	1	2	D	38/58*10	1
105	6211NR	6213	6403	own production	2	6306	D	65/90*12	1	2	D	38/58*10	1
106	6213NR	6215	NJ405M	own production	2	6308	D	85/110*13	1	2	D	55/78*12	1
107	6216NR	6218	NJ406M	own production	2	6407	D	95/130*13	1	2	D	60/82*12	1
108	6218NR	6220	NJ407M	own production	2	6409	D	110/140*14	1	2	D	65/90*12	1
109	6221NR	6026	NJ408M	RN219M	2	6411	D	120/150*14	1	2	S	70/95*13	1
110	23122NR	6222	NJ409M	RN222M	2	6412	D	140/170*14	1	2	S	85/110*13	1
122	23024NR	NUP226M	NJ409M	RN222M	2	6412	D	140/170*14	1	2	S	85/110*13	1
111	23124NR	NJ224M	NJ410M	RN228M	2	6415	D	145/175*16	1	2	S	95/130*13	1
124	23028NR	NUP230M	NJ411M	RN228M	2	6415	D	170/200*15	1	2	S	95/130*13	1
112	23128NR	NJ232M	NJ414M	RN328M	2	22218	D	180/210*16	1	2	S	110/140*14	1
125	23032NR	NUP234M	NJ414M	RN328M	2	22218	D	180/210*16	1	2	S	110/140*14	1

*S: OIL SEAL LIP TYPE

**D: OIL SEAL LIP AND DUST PROOF TYPE

6 User Manual

● Bearing (Intermediate part for double reduction type)

FRAME	BEARING			
	33	38	39	
	BRG NO.	BRG NO.	Qty.	BRG NO.
#232	6303	Produced by HDM	2	6206
#242	6403	Produced by HDM	2	6206
#243	6403	Produced by HDM	2	6208
#252	6403	Produced by HDM	2	6206
#253	6403	Produced by HDM	2	6208
#262	NJ405M	Produced by HDM	2	6206
#263	NJ405M	Produced by HDM	2	6208
#272	NJ406M	Produced by HDM	2	6208
#273	NJ406M	Produced by HDM	2	6208
#274	NJ406M	Produced by HDM	2	6213
#282	NJ407M	Produced by HDM	2	6208
#284	NJ407M	Produced by HDM	2	6213
#293	NJ408M	RN219M	2	6210

FRAME	BEARING			
	33	38	39	
	BRG NO.	BRG NO.	Qty.	BRG NO.
#294	NJ408	RN219M	2	6213
#296	NJ408	RN219M	2	6215
#2104	NJ409	RN222M	2	6213
#2106	NJ409	RN222M	2	6215
#2224	NJ409	RN222M	2	6213
#2226	NJ409	RN222M	2	6215
#2116	NJ410	RN228M	2	6215
#2117	NJ410	RN228M	2	6218
#2246	NJ411	RN228M	2	6215
#2247	NJ411	RN228M	2	6218
#2128	NJ414	RN328M	2	6220
#2258	NJ414	RN328M	2	6220

● Gasket

FRAME	Model #	Name	Applicable model for M-Drive	Thickness (mm)	Qty.
102 103	10	GASKET B	All models	0.5	1
	13	GASKET C		0.5	1
104 106 107	5	GASKET A	All models	0.5	1
	10	GASKET B	All models	0.5	1
	13	GASKET C	All models	0.5	1
108 109 110 122	5	GASKET A	All models	0.5	1
	10	GASKET B		0.5	1
	13	GASKET C		0.5	1
111 124	5	GASKET A	All models	0.5	1
	10	GASKET B		0.5	1
	13	GASKET C		0.5	1
124 125	5	GASKET A	All models	0.5	1
	10	GASKET B		0.5	1
	13	GASKET C		0.5	1

A photograph of three business professionals in a modern office setting. A man in a dark suit and blue tie is shaking hands with another person whose arm is visible on the left. A woman in a dark blazer is standing next to him, holding a tablet and looking towards the handshake. The background shows a glass-walled skyscraper.

We aspire to become a
business partner for our customers.

1

About Us

2

About M-Drive

3

Selection Process

4

Selection Tables

5

Dimensions

6

User Manual

7

Technical Information

7-1

Capacity (Input/Output)

7-2

Overhung Loads

7-3

Motor and Brake Connection Information

7-1 Capacity (Input / Output)

Single reduction type capacity table (Input / Output)

Reduction ratio		6		8		11		13		15		17		21	
Output RPM	1800	300		225		164		138		120		106		86	
	1500	250		188		136		115		100		88		71	
	1200	200		150		109		92		80		71		57	
	1000	167		125		91		77		67		59		48	
	900	150		113		82		69		60		53		43	
	750	125		94		68		58		50		44		36	
	600	100		75		55		46		40		35		29	
Frame		Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m
102	1800	2.75	8.27	2.75	11.0	2.75	15.2	2.69	17.5	2.75	20.7	2.13	18.1	2.02	21.3
	1500	2.75	9.92	2.75	13.2	2.75	18.2	2.69	21.0	2.75	24.8	2.13	21.8	2.02	25.6
	1200	2.35	10.6	2.35	14.1	2.35	19.4	2.15	21.0	2.31	26.0	1.82	23.3	1.65	26.0
	1000	2.07	11.2	2.07	14.9	2.07	20.5	1.79	21.0	1.92	26.0	1.60	24.6	1.37	26.0
	900	1.92	11.6	1.92	15.4	1.90	21.0	1.61	21.0	1.73	26.0	1.49	25.4	1.24	26.0
	750	1.69	12.2	1.69	16.3	1.59	21.0	1.34	21.0	1.44	26.0	1.27	26.0	1.03	26.0
	600	1.45	13.1	1.45	17.4	1.27	21.0	1.07	21.0	1.15	26.0	1.02	26.0	0.824	26.0
103	1800	6.88	20.7	6.88	27.6	5.10	28.1	5.09	33.2	5.09	38.3	5.09	43.3	4.12	43.3
	1500	6.88	24.8	6.88	33.1	5.10	33.7	5.09	39.8	5.09	45.9	5.09	52.0	4.12	52.0
	1200	5.88	26.5	5.88	35.4	4.36	36.1	4.36	42.6	4.36	49.2	4.07	52.0	3.29	52.0
	1000	5.18	28.0	5.18	37.3	3.84	38.1	3.84	45.0	3.84	51.9	3.39	52.0	2.75	52.0
	900	4.81	28.9	4.81	38.5	3.57	39.3	3.56	46.4	3.46	52.0	3.05	52.0	2.47	52.0
	750	4.23	30.5	4.23	40.7	3.14	41.5	3.14	49.0	2.88	52.0	2.54	52.0	2.06	52.0
	600	3.44	31.0	3.49	42.0	2.69	44.4	2.66	52.0	2.31	52.0	2.03	52.0	1.65	52.0
104	1800	10.1	30.4	10.1	40.5	9.91	54.6	9.38	61.1	7.77	58.4	7.17	61.1	6.13	64.5
	1500	10.1	36.4	10.1	48.6	9.91	65.6	9.38	73.3	7.77	70.1	7.17	73.3	6.13	77.4
	1200	8.68	39.1	8.68	52.2	8.48	70.1	7.98	78.0	6.65	75.0	6.11	78.0	4.94	78.0
	1000	7.64	41.3	7.64	55.1	7.47	74.1	6.65	78.0	5.77	78.0	5.09	78.0	4.12	78.0
	900	7.09	42.7	7.09	56.9	6.93	76.4	5.99	78.0	5.19	78.0	4.58	78.0	3.71	78.0
	750	6.24	45.1	6.25	60.1	5.90	78.0	4.99	78.0	4.32	78.0	3.82	78.0	3.09	78.0
	600	5.34	48.2	5.34	64.2	4.72	78.0	3.99	78.0	3.46	78.0	3.05	78.0	2.47	78.0
105	1800	13.2	39.6	13.2	52.7	13.2	72.5	10.3	66.9	10.2	76.5	9.29	79.1	7.25	76.3
	1500	13.2	47.5	13.2	63.3	13.2	87.0	10.3	80.3	10.2	91.8	9.29	94.9	7.25	91.6
	1200	11.3	50.7	11.3	67.7	11.3	93.0	8.78	85.8	8.71	98.2	7.95	102	6.20	97.9
	1000	9.90	53.6	9.91	71.5	9.90	98.3	7.73	90.6	7.67	104	6.85	105	5.46	103
	900	9.20	55.3	9.20	73.8	9.20	101	7.18	93.6	6.99	105	6.16	105	4.99	105
	750	8.10	58.4	8.10	77.9	7.94	105	6.32	98.8	5.82	105	5.14	105	4.16	105
	600	6.87	62.0	6.90	83.0	6.35	105	5.37	105	4.66	105	4.11	105	3.33	105
106	1800	20.3	64.3	18.0	72.1	18.0	99.2	17.4	113	15.0	113	15.3	130	13.5	142
	1500	20.3	77.7	18.0	86.6	18.0	119	17.4	136	15.0	135	15.3	156	13.5	170
	1200	20.3	96.6	17.5	105	17.5	145	14.9	145	12.8	145	13.1	167	11.5	182
	1000	20.3	115	15.4	111	15.4	153	13.1	154	11.3	153	11.5	176	9.77	185
	900	20.3	129	14.3	115	14.1	155	12.2	159	10.5	158	10.7	182	8.79	185
	750	17.5	135	12.6	121	11.7	155	10.7	167	9.23	167	9.05	185	7.33	185
	600	14.1	135	10.8	129	9.37	155	9.16	179	7.90	178	7.24	185	5.86	185

7-1 Capacity (Input / Output)

25		29		35		43		51		59		71		87		Reduction ratio	
72		62		51		42		35		31		25		21		1800	Output RPM
60		52		43		35		29		25		21		17		1500	
48		41		34		28		24		20		17		14		1200	
40		34		29		23		20		17		14		11		1000	
36		31		26		21		18		15		13		10		900	
30		26		21		17		15		13		11		8.6		750	
24		21		17		14		12		10		8.5		6.9		600	
Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Frame	
1.45	18.2	1.38	20.0	1.04	18.2	0.938	20.0	0.674	17.2	0.613	18.1	0.500	17.8	0.497	21.7	1800	102
1.45	21.8	1.38	24.0	1.04	21.8	0.938	24.3	0.674	20.7	0.613	21.7	0.500	21.3	0.497	26.0	1500	
1.24	23.3	1.18	25.6	0.886	23.3	0.801	25.9	0.576	22.1	0.524	23.2	0.428	22.8	0.398	26.0	1200	
1.09	24.6	0.994	26.0	0.780	24.6	0.670	26.0	0.507	23.3	0.461	24.5	0.376	24.1	0.331	26.0	1000	
1.01	25.4	0.895	26.0	0.724	25.4	0.603	26.0	0.471	24.1	0.428	25.3	0.349	24.9	0.298	26.0	900	
0.865	26.0	0.746	26.0	0.617	26.0	0.503	26.0	0.414	25.4	0.366	26.0	0.305	26.0	0.248	26.0	750	
0.692	26.0	0.597	26.0	0.494	26.0	0.402	26.0	0.339	26.0	0.293	26.0	0.244	26.0	0.199	26.0	600	
3.42	42.9	2.90	42.1	2.47	43.3	2.01	43.3	1.70	43.3	1.40	41.4	1.04	36.9	0.938	40.9	1800	103
3.42	51.5	2.90	50.5	2.47	52.0	2.01	52.0	1.70	52.0	1.40	49.7	1.04	44.2	0.938	40.9	1500	
2.77	52.0	2.39	52.0	1.98	52.0	1.61	52.0	1.36	52.0	1.17	52.0	0.886	47.3	0.795	52.0	1200	
2.31	52.0	1.99	52.0	1.65	52.0	1.34	52.0	1.13	52.0	0.977	52.0	0.780	49.9	0.663	52.0	1000	
2.08	52.0	1.79	52.0	1.48	52.0	1.21	52.0	1.02	52.0	0.880	52.0	0.724	51.5	0.596	52.0	900	
1.73	52.0	1.49	52.0	1.24	52.0	1.01	52.0	0.848	52.0	0.733	52.0	0.609	52.0	0.497	52.0	750	
1.38	52.0	1.19	52.0	0.988	52.0	0.804	52.0	0.678	52.0	0.586	52.0	0.487	52.0	0.398	52.0	600	
5.15	64.5	4.47	65.0	3.70	64.9	2.99	64.5	2.54	64.8	2.18	64.5	1.83	65.0	1.48	64.5	1800	104
5.15	77.4	4.47	78.0	3.70	77.9	2.99	77.4	2.54	77.8	2.18	77.4	1.83	78.0	1.48	77.4	1500	
4.15	78.0	3.58	78.0	2.97	78.0	2.41	78.0	2.04	78.0	1.76	78.0	1.46	78.0	1.19	78.0	1200	
3.46	78.0	2.98	78.0	2.47	78.0	2.01	78.0	1.70	78.0	1.47	78.0	1.22	78.0	0.994	78.0	1000	
3.11	78.0	2.68	78.0	2.22	78.0	1.81	78.0	1.53	78.0	1.32	78.0	1.10	78.0	0.894	78.0	900	
2.59	78.0	2.24	78.0	1.85	78.0	1.51	78.0	1.27	78.0	1.10	78.0	0.913	78.0	0.745	78.0	750	
2.08	78.0	1.79	78.0	1.48	78.0	1.21	78.0	1.02	78.0	0.880	78.0	0.731	78.0	0.596	78.0	600	
6.88	86.1	5.94	86.3	4.99	87.5	3.94	84.8	3.42	87.5	2.96	87.5	2.19	77.9	2.01	87.5	1800	105
6.88	103	5.94	104	4.99	105	3.94	102	3.42	105	2.96	105	2.19	93.5	2.01	105	1500	
5.59	105	4.82	105	3.99	105	3.25	105	2.74	105	2.37	105	1.87	100	1.61	105	1200	
4.66	105	4.01	105	3.33	105	2.71	105	2.28	105	1.97	105	1.64	105	1.34	105	1000	
4.19	105	3.61	105	2.99	105	2.44	105	2.05	105	1.78	105	1.48	105	1.20	105	900	
3.49	105	3.01	105	2.49	105	2.03	105	1.71	105	1.48	105	1.23	105	1.00	105	750	
2.79	105	2.41	105	2.00	105	1.62	105	1.37	105	1.18	105	0.984	105	0.803	105	600	
11.7	147	9.86	143	8.79	154	6.83	147	5.75	147	4.98	147	4.13	147	3.37	147	1800	106
11.7	176	9.86	172	8.79	185	6.83	176	5.75	176	4.98	177	4.13	176	3.37	176	1500	
9.85	185	8.44	184	7.03	185	5.72	185	4.83	185	4.17	185	3.47	185	2.83	185	1200	
8.21	185	7.07	185	5.86	185	4.77	185	4.02	185	3.48	185	2.89	185	2.36	185	1000	
7.38	185	6.37	185	5.27	185	4.29	185	3.62	185	3.13	185	2.60	185	2.12	185	900	
6.15	185	5.31	185	4.40	185	3.58	185	3.02	185	2.61	185	2.17	185	1.77	185	750	
4.92	185	4.24	185	3.52	185	2.86	185	2.41	185	2.09	185	1.73	185	1.41	185	600	

7-1 Capacity (Input / Output)

Single reduction type capacity table (Input / Output)

Reduction ratio		6		8		11		13		15		17		21	
Output RPM	1800	300		225		164		138		120		106		86	
	1500	250		188		136		115		100		88		71	
	1200	200		150		109		92		80		71		57	
	1000	167		125		91		77		67		59		48	
	900	150		113		82		69		60		53		43	
	750	125		94		68		58		50		44		36	
	600	100		75		55		46		40		35		29	
Frame		Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m
107	1800	27.6	87.6	27.6	116	27.5	152	27.3	178	23.1	174	19.7	168	18.8	197
	1500	27.6	106	27.6	141	27.5	182	27.3	213	23.1	209	19.7	201	18.8	237
	1200	27.6	131	27.6	175	23.5	194	23.3	228	19.8	223	16.8	215	16.0	253
	1000	27.6	156	27.6	208	20.7	205	20.5	241	17.4	236	14.8	227	14.1	267
	900	27.6	176	27.6	234	19.2	212	19.1	249	16.2	243	13.8	234	13.1	276
	750	24.6	190	25.1	258	16.9	224	16.8	263	14.2	257	12.1	248	11.1	280
	600	19.8	190	20.2	258	14.5	239	14.3	280	12.2	275	10.4	265	8.87	280
108	1800					33.6	185	33.6	219	31.3	236	30.5	259	27.5	289
	1500					33.6	222	33.6	263	31.3	283	30.5	311	27.5	347
	1200					33.6	278	32.1	313	26.8	302	26.1	333	23.5	371
	1000					29.7	294	28.2	331	23.6	319	22.9	352	20.7	392
	900					27.6	304	26.2	342	21.9	330	21.3	363	19.2	405
	750					24.3	321	23.1	361	19.3	348	18.8	383	16.4	415
	600					20.6	340	19.7	386	16.5	372	16.0	410	13.1	415
109	1800					44.0	243	44.0	287	44.0	331	44.0	375	37.1	390
	1500					44.0	291	44.0	344	44.0	397	44.0	450	37.1	468
	1200					40.0	334	39.6	387	39.6	446	39.6	505	31.7	501
	1000					35.5	352	34.8	408	34.8	471	34.8	534	27.9	529
	900					33.0	364	32.3	421	32.3	486	32.3	551	25.9	546
	750					29.0	384	28.5	445	28.5	514	28.5	582	22.8	577
	600					24.8	411	24.4	476	24.4	549	24.4	622	19.5	617
110	1800					72.1	397					48.3	410	60.5	636
	1500					72.1	477					48.3	491	60.5	763
	1200					68.8	569					46.4	591	54.3	857
	1000					62.1	616					46.1	706	48.0	910
	900					58.5	645					42.9	732	44.8	942
	750					52.6	695					37.8	753	38.8	980
	600					43.9	726					32.4	804	31.0	980
122	1800														
	1500														
	1200					90.3	746					60.3	768	72.2	1139
	1000					81.4	808					59.9	920	65.1	1233
	900					76.7	846					55.7	951	60.5	1274
	750					69.1	914					49.1	978	51.5	1300
	600					59.1	977					42.1	1045	41.2	1300

7-1 Capacity (Input / Output)

25		29		35		43		51		59		71		87		Reduction ratio	
72		62		51		42		35		31		25		21		1800	Output RPM
60		52		43		35		29		25		21		17		1500	
48		41		34		28		24		20		17		14		1200	
40		34		29		23		20		17		14		11		1000	
36		31		26		21		18		15		13		10		900	
30		26		21		17		15		13		11		8.6		750	
24		21		17		14		12		10		8.5		6.9		600	
Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Frame	
15.8	197	14.5	211	12.6	221	9.38	202	8.39	214	7.17	212	6.06	216	4.86	212	1800	107
15.8	237	14.5	253	12.6	266	9.38	242	8.39	257	7.17	255	6.06	259	4.86	254	1500	
13.5	253	12.4	270	10.6	280	8.02	259	7.17	275	6.14	272	5.19	277	4.16	272	1200	
11.9	267	10.7	280	8.87	280	7.06	274	6.09	280	5.26	280	4.37	280	3.57	280	1000	
11.0	276	9.63	280	7.98	280	6.50	280	5.48	280	4.74	280	3.94	280	3.21	280	900	
9.31	280	8.03	280	6.65	280	5.42	280	4.57	280	3.95	280	3.28	280	2.68	280	750	
7.45	280	6.42	280	5.32	280	4.33	280	3.65	280	3.16	280	2.62	280	2.14	280	600	
23.2	291	18.8	272	18.8	329	15.0	324	11.5	295	9.38	277	7.42	264	7.42	324	1800	108
23.2	349	18.8	327	18.8	395	15.0	389	11.5	354	9.38	333	7.42	317	7.42	388	1500	
19.9	373	16.0	350	15.8	415	12.8	415	9.88	379	8.02	356	6.35	339	6.35	415	1200	
17.5	394	14.1	369	13.1	415	10.7	415	8.70	400	7.06	376	5.59	358	5.29	415	1000	
16.2	407	13.1	381	11.8	415	9.63	415	8.08	413	6.56	388	5.19	369	4.76	415	900	
13.8	415	11.5	403	9.86	415	8.03	415	6.77	415	5.77	409	4.57	390	3.97	415	750	
11.0	415	9.52	415	7.89	415	6.42	415	5.41	415	4.68	415	3.89	415	3.17	415	600	
35.0	438	30.7	445	24.3	425	20.9	451	18.2	464	15.2	450	13.5	481	11.8	514	1800	109
35.0	525	30.7	535	24.3	510	20.9	541	18.2	557	15.2	540	13.5	577	11.8	617	1500	
29.9	562	26.2	572	20.7	546	17.9	579	15.5	596	13.0	578	11.6	617	10.1	660	1200	
26.3	593	23.1	604	18.3	576	15.8	611	13.7	629	11.5	610	10.2	651	8.88	697	1000	
24.4	612	21.4	623	17.0	595	14.6	631	12.7	649	10.7	630	9.45	672	8.25	719	900	
21.5	647	18.9	658	14.9	628	12.9	666	11.2	686	9.38	665	8.32	710	7.07	740	750	
18.4	692	16.1	704	12.8	672	11.0	712	9.56	733	8.02	711	6.93	740	5.66	740	600	
		48.8	709	40.9	702	37.5	808			28.0	829			18.4	800	1800	110
		48.8	851	40.6	832	37.5	970			28.0	995			18.4	960	1500	
		42.4	925	34.4	881	32.2	1040			24.1	1069			14.7	960	1200	
		37.4	977	30.5	939	28.0	1085			20.8	1104			12.2	960	1000	
		33.7	980	28.5	971	25.6	1105			19.0	1125			11.0	960	900	
		28.1	980	24.8	1015	22.1	1141			16.2	1150			9.18	960	750	
		22.5	980	21.3	1093	17.8	1150			13.0	1150			7.34	960	600	
																1800	122
																1500	
		53.6	1168			39.8	1285			28.9	1280			18.7	1225	1200	
		47.2	1234			34.2	1327			24.9	1326			16.5	1294	1000	
		43.8	1274			31.4	1353			22.9	1352			14.9	1300	900	
		37.3	1300			27.0	1397			19.7	1398			12.4	1300	750	
		29.8	1300			22.4	1450			16.3	1450			9.94	1300	600	

7-1 Capacity (Input / Output)

Single reduction type capacity table (Input / Output)

Reduction ratio		6		8		11		13		15		17		21	
Output RPM	1800	300		225		164		138		120		106		86	
	1500	250		188		136		115		100		88		71	
	1200	200		150		109		92		80		71		57	
	1000	167		125		91		77		67		59		48	
	900	150		113		82		69		60		53		43	
	750	125		94		68		58		50		44		36	
	600	100		75		55		46		40		35		29	
Frame		Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m
111	1800														
	1500														
	1200					93.8	775					71.9	917	75.1	1186
	1000					93.8	930					68.6	1052	75.1	1423
	900					93.4	1029					63.7	1087	69.8	1469
	750					81.9	1084					56.2	1117	61.4	1551
	600					69.6	1150					48.1	1196	52.3	1650
124	1800														
	1500														
	1200					119	981					90.5	1155	96.3	1519
	1000					119	1177					86.4	1325	96.3	1823
	900					119	1308					80.2	1369	89.4	1882
	750					104	1382					70.8	1407	78.7	1988
	600					87.4	1445					60.6	1506	66.5	2100
112	1800														
	1500														
	1200					144	1190					125.4	1593	119	1873
	1000					144	1429					124	1912	119	2248
	900					144	1587					116.4	1990	119	2498
	750					140	1850					102.7	2037	105	2658
	600					112	1850					87.9	2189	85.5	2700
125	1800														
	1500														
	1200					173	1430					150.4	1911	144	2279
	1000					173	1716					148.8	2294	144	2734
	900					173	1907					139.7	2388	144	3038
	750					173	2288					123.2	2444	134	3384
	600					145	2400					105.5	2626	113	3568

7-1 Capacity (Input / Output)

25		29		35		43		51		59		71		87		Reduction ratio	
72		62		51		42		35		31		25		21		1800	
60		52		43		35		29		25		21		17		1500	
48		41		34		28		24		20		17		14		1200	
40		34		29		23		20		17		14		11		1000	
36		31		26		21		18		15		13		10		900	
30		26		21		17		15		13		11		8.6		750	
24		21		17		14		12		10		8.5		6.9		600	
Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Frame	
																1800	111
																1500	
		56.3	1226			43.4	1402			30.3	1341			21.0	1375	1200	
		56.3	1471			43.4	1682			30.3	1610			21.0	1650	1000	
		53.9	1566			40.3	1736			27.9	1647			18.9	1650	900	
		47.0	1640			35.5	1834			24.2	1715			15.8	1650	750	
		37.9	1650			28.6	1850			20.3	1802			12.6	1650	600	
																1800	124
																1500	
		70.5	1536			56.5	1827			39.3	1741			26.8	1750	1200	
		70.5	1843			56.5	2192			39.3	2090			26.8	2100	1000	
		66.7	1939			51.7	2229			36.1	2131			24.1	2100	900	
		58.7	2048			44.4	2294			31.1	2207			20.1	2100	750	
		48.2	2100			36.8	2375			26.0	2302			16.1	2100	600	
		-	-			-	-			-	-			-	-	1800	112
		-	-			-	-			-	-			-	-	1500	
		96.3	2098			68.8	2222			56.3	2494			34.4	2250	1200	
		96.3	2517			68.8	2666			56.3	2993			34.4	2700	1000	
		92.9	2700			68.8	2962			52.4	3100			31.0	2700	900	
		77.4	2700			60.0	3100			43.7	3100			25.8	2700	750	
		61.9	2700			48.0	3100			35.0	3100			20.6	2700	600	
		-	-			-	-			-	-			-	-	1800	125
		-	-			-	-			-	-			-	-	1500	
		138	2997			96.3	3111			75.6	3353			45.9	3000	1200	
		138	3506			96.3	3733			75.6	4024			45.9	3600	1000	
		124	3600			89.1	3840			70.2	4140			41.3	3600	900	
		103	3600			77.2	3993			58.5	4149			34.4	3600	750	
		82.6	3600			64.2	4150			46.8	4149			27.5	3600	600	

7-1 Capacity (Input / Output)

Double reduction type capacity table (Input / Output)

Reduction ratio		104		121		143		165		187		195	
		(13X8)		(11X11)		(13X11)		(15X11)		(17X11)		(15X13)	
Output RPM	60HZ	17.3		14.9		12.6		10.9		9.6		9.2	
	50HZ	14.4		12.4		10.5		9.1		8.0		7.7	
Frame		Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m
232	60HZ	0.95	45.6	0.86	48.0	0.76	50.2	0.68	52.0	0.63	52.0	0.58	52.0
	50HZ	0.84	48.2	0.76	50.7	0.66	52.0	0.57	52.0	0.52	52.0	0.48	52.0
242	60HZ	1.36	65.3	1.23	68.7	1.18	78.0	1.03	78.0	0.95	78.0	0.87	78.0
	50HZ	1.36	78.0	1.06	70.8	0.99	78.0	0.86	78.0	0.79	78.0	0.72	78.0
243	60HZ	1.63	78.0	1.40	78.0	1.18	78.0	1.03	78.0	0.95	78.0	-	-
	50HZ	1.36	78.0	1.17	78.0	0.99	78.0	0.86	78.0	0.79	78.0	-	-
252	60HZ	-	-	-	-	1.23	80.9	1.21	91.5	1.11	91.5	1.02	91.9
	50HZ	-	-	-	-	1.02	80.9	1.00	91.5	0.93	91.5	0.85	91.9
253	60HZ	2.14	102	1.74	96.9	1.59	105	1.38	105	1.28	105	1.17	105
	50HZ	1.83	105	1.45	96.9	1.33	105	1.15	105	1.06	105	0.97	105
262	60HZ	-	-	-	-	-	-	-	-	-	-	-	-
	50HZ	-	-	-	-	-	-	-	-	-	-	-	-
263	60HZ	3.86	185	3.34	185	2.75	185	2.44	185	2.25	185	2.06	185
	50HZ	3.22	185	2.77	185	2.31	185	2.03	185	1.88	185	1.72	185
272	60HZ	-	-	-	-	-	-	-	-	-	-	-	-
	50HZ	-	-	-	-	-	-	-	-	-	-	-	-
273	60HZ	-	-	-	-	-	-	-	-	2.75	280	2.69	241
	50HZ	-	-	-	-	-	-	-	-	2.63	280	2.41	260
274	60HZ	5.07	243	4.67	260	4.25	280	3.52	267	3.32	280	3.12	280
	50HZ	4.87	280	3.89	260	3.54	280	3.07	280	2.84	280	2.60	280
282	60HZ	-	-	-	-	-	-	-	-	-	-	-	-
	50HZ	-	-	-	-	-	-	-	-	-	-	-	-
284	60HZ	8.46	405	6.10	340	6.15	405	5.46	415	5.04	415	4.62	415
	50HZ	7.05	405	5.09	340	5.13	405	4.55	415	4.20	415	3.85	415
293	60HZ	-	-	-	-	-	-	-	-	-	-	-	-
	50HZ	-	-	-	-	-	-	-	-	-	-	-	-
294	60HZ	-	-	-	-	-	-	-	-	-	-	6.78	609
	50HZ	-	-	-	-	-	-	-	-	-	-	6.00	647
296	60HZ	-	-	8.74	575	-	-	7.57	575	7.18	575	-	-
	50HZ	-	-	7.74	611	-	-	6.70	611	6.35	611	-	-
2104	60HZ	-	-	9.91	552	-	-	-	-	9.65	798	-	-
	50HZ	-	-	9.91	663	-	-	-	-	8.76	865	-	-
2106	60HZ	-	-	13.0	725	-	-	-	-	10.5	865	-	-
	50HZ	-	-	11.1	740	-	-	-	-	8.76	865	-	-
2224	60HZ	-	-	-	-	-	-	-	-	-	-	-	-
	50HZ	-	-	-	-	-	-	-	-	-	-	-	-
2226	60HZ	-	-	16.4	915	-	-	-	-	13.8	1150	-	-
	50HZ	-	-	14.5	966	-	-	-	-	11.7	1150	-	-
2116	60HZ	-	-	18.0	1000	-	-	-	-	16.9	1430	-	-
	50HZ	-	-	17.2	1150	-	-	-	-	14.6	1450	-	-
2117	60HZ	-	-	19.7	1100	-	-	-	-	16.9	1430	-	-
	50HZ	-	-	17.2	1150	-	-	-	-	14.6	1450	-	-
2246	60HZ	-	-	18.1	1370	-	-	-	-	17.7	1560	-	-
	50HZ	-	-	18.1	1640	-	-	-	-	17.6	1850	-	-
2247	60HZ	-	-	19.8	1440	-	-	-	-	17.7	1560	-	-
	50HZ	-	-	19.8	1450	-	-	-	-	17.6	1850	-	-
2128	60HZ	-	-	25.8	1530	-	-	-	-	22.1	2400	-	-
	50HZ	-	-	21.7	1840	-	-	-	-	18.8	2400	-	-
2258	60HZ	-	-	27.5	2400	-	-	-	-	27.1	3020	-	-
	50HZ	-	-	27.5	2400	-	-	-	-	24.3	3100	-	-

7-1 Capacity (Input / Output)

231		273		289		319		377		385		473		Reduction ratio	
(21X11)		(21X13)		(17X17)		(29X11)		(29X13)		(35X11)		(43X11)			
7.8		6.6		6.2		5.6		4.8		4.7		3.8		60HZ	Output RPM
6.5		5.5		5.2		4.7		4.0		3.9		3.2		50HZ	
Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Frame	
0.49	52.0	0.41	52.0	0.38	52.0	0.35	52.0	0.30	52.0	0.27	52.0	0.24	52.0	60HZ	232
0.41	52.0	0.34	52.0	0.27	52.0	0.30	52.0	0.25	52.0	0.2	52.0	(0.20)	52.0	50HZ	
0.73	78.0	0.62	78.0	0.58	78.0	0.53	78.0	0.45	78.0	0.40	78.0	0.36	78.0	60HZ	242
0.61	78.0	0.52	78.0	0.48	78.0	0.44	78.0	0.37	78.0	0.34	78.0	0.30	78.0	50HZ	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	60HZ	243
-	-	-	-	-	-	-	-	-	-	-	-	-	-	50HZ	
0.99	105	0.84	105	0.78	105	0.71	105	0.60	105	0.78	105	0.48	105	60HZ	252
0.82	105	0.70	105	0.65	105	0.60	105	0.50	105	0.65	105	0.40	105	50HZ	
0.99	105	0.84	105	-	-	-	-	-	-	-	-	-	-	60HZ	253
0.82	105	0.70	105	-	-	-	-	-	-	-	-	-	-	50HZ	
1.74	185	1.47	185	1.37	185	1.26	185	1.07	185	0.96	185	0.85	185	60HZ	262
1.45	185	1.23	185	1.14	185	1.05	185	0.89	185	0.80	185	0.71	185	50HZ	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	60HZ	263
-	-	-	-	-	-	-	-	-	-	-	-	-	-	50HZ	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	60HZ	272
-	-	-	-	-	-	-	-	-	-	-	-	-	-	50HZ	
2.63	280	2.23	280	2.05	280	1.86	274	1.61	280	1.45	280	1.29	280	60HZ	273
2.19	280	1.86	280	1.73	280	1.59	280	1.34	280	1.21	280	1.07	280	50HZ	
2.63	280	2.45	280	2.27	280	1.91	280	-	-	-	-	-	-	60HZ	274
2.19	280	2.04	280	1.89	280	1.59	280	-	-	-	-	-	-	50HZ	
-	-	2.69	338	2.67	338	2.65	389	2.38	414	2.15	415	1.91	415	60HZ	282
-	-	2.69	405	2.52	405	2.35	414	1.99	415	1.79	415	1.59	415	50HZ	
3.90	415	3.30	415	3.07	415	2.83	415	2.39	415	2.15	415	1.91	415	60HZ	284
3.25	415	2.75	415	2.55	415	2.35	415	1.99	415	1.79	415	1.59	415	50HZ	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	60HZ	293
-	-	-	-	-	-	-	-	-	-	-	-	-	-	50HZ	
6.75	718	5.89	740	5.35	740	4.81	706	4.26	740	3.80	740	3.35	730	60HZ	294
5.80	740	4.91	740	4.56	740	4.20	740	3.55	740	3.19	740	2.83	740	50HZ	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	60HZ	296
-	-	-	-	-	-	-	-	-	-	-	-	-	-	50HZ	
9.17	975	7.80	980	7.19	980	6.58	966	5.65	980	5.45	980	5.25	1140	60HZ	2104
7.68	980	6.50	980	6.03	980	5.56	980	4.70	980	4.55	980	4.40	1150	50HZ	
9.21	980	7.80	980	7.19	980	6.61	982	6.16	1150	5.71	1150	5.27	1150	60HZ	2106
7.68	980	6.50	980	6.03	980	5.56	980	5.18	1150	4.8	1150	4.40	1150	50HZ	
-	-	-	-	-	-	-	-	7.49	1300	7.07	1450	6.66	1450	60HZ	2224
-	-	-	-	-	-	-	-	6.24	1300	5.89	1450	5.55	1450	50HZ	
11.9	1260	10.3	1300	9.40	1300	8.49	1250	-	-	-	-	-	-	60HZ	2226
10.2	1300	8.62	1300	8.0	1300	7.38	1300	-	-	-	-	-	-	50HZ	
14.3	1520	12.7	1600	11.4	1600	10.2	1500	9.08	1580	-	-	8.18	1780	60HZ	2116
12.6	1610	10.9	1650	9.94	1650	8.99	1580	7.92	1650	-	-	7.08	1850	50HZ	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	60HZ	2117
-	-	-	-	-	-	-	-	-	-	-	-	-	-	50HZ	
18.0	1910	16.4	2060	14.7	2060	13.1	1920	11.7	2030	-	-	10.6	2320	60HZ	2246
16.2	2060	13.9	2100	12.7	2100	11.6	2040	10.1	2100	-	-	9.18	2400	50HZ	
18.0	1910	16.4	2060	14.7	2060	13.1	1920	11.7	2030	-	-	-	-	60HZ	2247
16.2	2060	13.9	2100	12.7	2100	11.6	2040	10.1	2100	-	-	-	-	50HZ	
-	-	-	-	19.9	2700	13.3	2700	11.9	2700	-	-	10.8	3100	60HZ	2128
-	-	-	-	16.6	2700	11.7	2700	10.1	2700	-	-	9.18	3100	50HZ	
-	-	-	-	22.7	3350	18.4	3350	15.6	3530	-	-	14.2	3960	60HZ	2258
-	-	-	-	19.3	3540	15.3	3540	13.0	3600	-	-	11.9	4150	50HZ	

7-1 Capacity (Input / Output)

Double reduction type capacity table (Input / Output)

Reduction ratio		493		559		595		649		731		841	
		(29X17)		(43X13)		(35X17)		(59X11)		(43X17)		(29X29)	
Output RPM	60HZ	3.7		3.2		3.0		2.8		2.5		2.1	
	50HZ	3.0		2.7		2.5		2.3		2.1		1.8	
Frame		Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m
232	60HZ	(0.20)	52.0	(0.20)	52.0	(0.20)	52.0	(0.20)	52.0	(0.20)	52.0	(0.20)	52.0
	50HZ	(0.20)	52.0	(0.20)	52.0	(0.20)	52.0	(0.20)	52.0	(0.20)	52.0	(0.20)	52.0
242	60HZ	0.33	78.0	0.30	78.0	0.28	78.0	0.26	78.0	0.23	78.0	(0.20)	78.0
	50HZ	0.27	78.0	0.25	78.0	0.23	78.0	0.22	78.0	(0.20)	78.0	(0.20)	78.0
243	60HZ	-	-	-	-	-	-	-	-	-	-	-	-
	50HZ	-	-	-	-	-	-	-	-	-	-	-	-
252	60HZ	0.54	105	0.41	105	0.39	105	0.35	105	0.31	105	0.27	105
	50HZ	0.45	105	0.34	105	0.32	105	0.29	105	0.26	105	0.23	105
253	60HZ	-	-	-	-	-	-	-	-	-	-	-	-
	50HZ	-	-	-	-	-	-	-	-	-	-	-	-
262	60HZ	0.78	185	0.72	185	0.67	185	0.62	185	0.55	185	0.48	185
	50HZ	0.65	185	0.60	185	0.56	185	0.52	185	0.46	185	(0.40)	185
263	60HZ	-	-	-	-	-	-	-	-	-	-	-	-
	50HZ	-	-	-	-	-	-	-	-	-	-	-	-
272	60HZ	-	-	-	-	-	-	-	-	0.65	230	0.57	230
	50HZ	-	-	-	-	-	-	-	-	0.54	230	0.47	230
273	60HZ	1.19	280	1.09	280	1.02	280	0.94	280	0.83	280	0.72	280
	50HZ	1.98	280	0.91	280	0.85	280	0.78	280	0.69	280	0.60	280
274	60HZ	-	-	-	-	-	-	-	-	-	-	-	-
	50HZ	-	-	-	-	-	-	-	-	-	-	-	-
282	60HZ	1.76	415	1.61	415	1.48	415	1.35	404	1.23	415	1.07	415
	50HZ	1.47	415	1.34	415	1.25	415	1.16	415	1.03	415	0.89	415
284	60HZ	1.76	415	1.61	415	1.48	415	1.35	404	1.23	415	1.07	415
	50HZ	1.47	415	1.34	415	1.23	415	1.16	415	1.03	415	0.89	415
293	60HZ	-	-	-	-	-	-	-	-	1.88	633	1.88	729
	50HZ	-	-	-	-	-	-	-	-	1.67	673	1.59	740
294	60HZ	3.12	740	2.88	740	2.68	740	2.48	740	2.20	740	1.91	740
	50HZ	2.62	740	2.40	740	2.23	740	2.06	740	1.83	740	1.59	740
296	60HZ	-	-	-	-	-	-	-	-	-	-	-	-
	50HZ	-	-	-	-	-	-	-	-	-	-	-	-
2104	60HZ	4.86	1150	4.47	1150	4.16	1150	3.85	1150	3.41	1150	2.53	980
	50HZ	4.06	1150	3.72	1150	3.47	1150	3.21	1150	2.85	1150	2.20	980
2106	60HZ	-	-	-	-	-	-	-	-	-	-	-	-
	50HZ	-	-	-	-	-	-	-	-	-	-	-	-
2224	60HZ	6.15	1450	5.63	1450	5.24	1450	4.85	1450	4.30	1450	3.54	1300
	50HZ	5.12	1450	4.69	1450	4.36	1450	4.04	1450	3.59	1450	2.80	1300
2226	60HZ	-	-	-	-	-	-	-	-	-	-	-	-
	50HZ	-	-	-	-	-	-	-	-	-	-	-	-
2116	60HZ	7.69	1780	7.19	1850	-	-	5.93	1770	5.5	1850	4.26	1650
	50HZ	6.54	1850	5.99	1850	-	-	5.16	1850	4.58	1850	3.55	1650
2117	60HZ	-	-	-	-	-	-	-	-	-	-	-	-
	50HZ	-	-	-	-	-	-	-	-	-	-	-	-
2246	60HZ	9.97	2400	9.33	2400	-	-	7.74	2310	7.13	2400	5.42	2100
	50HZ	8.48	2400	7.77	2400	-	-	6.69	2400	5.94	2400	4.52	2100
2247	60HZ	-	-	-	-	-	-	-	-	-	-	-	-
	50HZ	-	-	-	-	-	-	-	-	-	-	-	-
2128	60HZ	10.1	3100	9.36	3100	-	-	7.82	3100	7.13	3100	(5.5)	2700
	50HZ	8.56	3100	7.94	3100	-	-	6.69	3100	5.94	3100	(5.5)	2700
2258	60HZ	13.1	4150	12.0	4150	-	-	10.4	3960	9.21	4150	(7.50)	3600
	50HZ	10.9	4150	10.0	4150	-	-	8.65	4150	7.68	4150	(7.50)	3600

7-1 Capacity (Input / Output)

957		1003		1015		1225		1247		1479		1505		Reduction ratio	
(87X11)		(59X17)		(35X29)		(35X35)		(43X29)		(87X17)		(43X35)			
1.9		1.8		1.8		1.5		1.4		1.2		1.2		60HZ	Output RPM
1.6		1.5		1.5		1.2		1.2		1.0		1.0		50HZ	
Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Frame	
(0.20)	52.0	(0.20)	52.0	(0.20)	52.0	(0.20)	52.0	(0.20)	52.0	(0.20)	52.0	(0.20)	52.0	60HZ	232
(0.20)	52.0	(0.20)	52.0	(0.20)	52.0	(0.20)	52.0	(0.20)	52.0	(0.20)	52.0	(0.20)	52.0	50HZ	
(0.20)	78.0	(0.20)	78.0	(0.20)	78.0	(0.20)	78.0	(0.20)	78.0	(0.20)	78.0	(0.20)	78.0	60HZ	242
(0.20)	78.0	(0.20)	78.0	(0.20)	78.0	(0.20)	78.0	(0.20)	78.0	(0.20)	78.0	(0.20)	78.0	50HZ	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	60HZ	243
-	-	-	-	-	-	-	-	-	-	-	-	-	-	50HZ	
(0.20)	105	(0.20)	105	(0.20)	105	(0.20)	105	(0.20)	105	(0.20)	105	(0.20)	105	60HZ	252
(0.20)	105	(0.20)	105	(0.20)	105	(0.20)	105	(0.20)	105	(0.20)	105	(0.20)	105	50HZ	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	60HZ	253
-	-	-	-	-	-	-	-	-	-	-	-	-	-	50HZ	
0.44	185	(0.40)	185	(0.40)	185	(0.40)	185	(0.40)	185	(0.40)	185	(0.40)	185	60HZ	262
(0.40)	185	(0.40)	185	(0.40)	185	(0.40)	185	(0.40)	185	(0.40)	185	(0.40)	185	50HZ	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	60HZ	263
-	-	-	-	-	-	-	-	-	-	-	-	-	-	50HZ	
0.49	230	0.42	230	(0.40)	230	(0.40)	230	(0.40)	230	(0.40)	230	(0.40)	230	60HZ	272
(0.40)	230	(0.40)	230	(0.40)	230	(0.40)	230	(0.40)	230	(0.40)	230	(0.40)	230	50HZ	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	60HZ	273
-	-	-	-	-	-	-	-	-	-	-	-	-	-	50HZ	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	60HZ	274
-	-	-	-	-	-	-	-	-	-	-	-	-	-	50HZ	
-	-	0.90	415	(0.75)	415	(0.75)	415	(0.75)	415	(0.75)	415	(0.75)	415	60HZ	282
-	-	(0.75)	415	(0.75)	415	(0.75)	415	(0.75)	415	(0.75)	415	(0.75)	415	50HZ	
0.99	415	0.90	415	(0.75)	415	(0.75)	415	(0.75)	415	(0.75)	415	(0.75)	415	60HZ	284
0.82	415	0.75	415	(0.75)	415	(0.75)	415	(0.75)	415	(0.75)	415	(0.75)	415	50HZ	
1.67	671	1.45	671	1.37	740	1.33	740	1.29	740	1.07	731	0.97	740	60HZ	293
1.44	713	1.29	713	1.18	740	1.13	740	1.07	740	0.91	740	0.86	740	50HZ	
1.76	740	1.60	740	-	-	-	-	-	-	-	-	-	-	60HZ	294
1.47	740	1.34	740	-	-	-	-	-	-	-	-	-	-	50HZ	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	60HZ	296
-	-	-	-	-	-	-	-	-	-	-	-	-	-	50HZ	
2.51	1150	2.49	1150	(2.20)	1150	(2.20)	1150	(2.20)	1150	(1.50)	1150	(1.50)	1150	60HZ	2104
2.2	1150	2.20	1150	(2.20)	1150	(2.20)	1150	(2.20)	1150	(1.50)	1150	(1.50)	1150	50HZ	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	60HZ	2106
-	-	-	-	-	-	-	-	-	-	-	-	-	-	50HZ	
3.34	1450	3.14	1450	2.83	1450	2.68	1450	2.53	1450	2.27	1300	2.02	1300	60HZ	2224
2.71	1450	2.62	1450	(2.20)	1450	(2.20)	1450	(2.20)	1450	(2.20)	1300	(1.50)	1300	50HZ	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	60HZ	2226
-	-	-	-	-	-	-	-	-	-	-	-	-	-	50HZ	
4.13	1650	4.01	1850	-	-	-	-	3.22	1850	2.42	1650	(2.20)	1850	60HZ	2116
3.44	1650	3.34	1850	-	-	-	-	2.69	1850	(2.20)	1650	(2.20)	1850	50HZ	
		-	-	-	-	-	-	-	-	-	-	-	-	60HZ	2117
		-	-	-	-	-	-	-	-	-	-	-	-	50HZ	
5.31	2400	5.20	2400	-	-	-	-	4.18	2400	3.08	2100	2.99	2400	60HZ	2246
4.42	2400	4.33	2400	-	-	-	-	3.48	2400	2.57	2100	2.49	2400	50HZ	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	60HZ	2247
-	-	-	-	-	-	-	-	-	-	-	-	-	-	50HZ	
(5.5)	3100	(5.5)	3100	-	-	-	-	(5.5)	3100	(5.5)	2700	(5.5)	3100	60HZ	2128
(5.5)	3100	(5.5)	3100	-	-	-	-	(5.5)	3100	(5.5)	2700	(5.5)	3100	50HZ	
(7.50)	4150	(7.50)	4150	-	-	-	-	(7.50)	4150	(5.5)	3600	(5.5)	4150	60HZ	2258
(7.50)	4150	(7.50)	4150	-	-	-	-	(7.50)	4150	(5.5)	3600	(5.5)	4150	50HZ	

7-1 Capacity (Input / Output)

Double reduction type capacity table (Input / Output)

Reduction ratio		1711		1849		2065		2523		2537		3045	
		(59X29)		(43X43)		(59X35)		(87X29)		(59X43)		(87X35)	
Output RPM	60HZ	1.1		0.97		0.87		0.71		0.71		0.59	
	50HZ	0.88		0.81		0.73		0.59		0.59		0.49	
Frame		Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m
232	60HZ	(0.20)	52.0	(0.20)	52.0	(0.20)	52.0	(0.20)	52.0	(0.20)	52.0	(0.20)	52.0
	50HZ	(0.20)	52.0	(0.20)	52.0	(0.20)	52.0	(0.20)	52.0	(0.20)	52.0	(0.20)	52.0
242	60HZ	(0.20)	78.0	(0.20)	78.0	(0.20)	78.0	(0.20)	78.0	(0.20)	78.0	(0.20)	78.0
	50HZ	(0.20)	78.0	(0.20)	78.0	(0.20)	78.0	(0.20)	78.0	(0.20)	78.0	(0.20)	78.0
243	60HZ	-	-	-	-	-	-	-	-	-	-	-	-
	50HZ	-	-	-	-	-	-	-	-	-	-	-	-
252	60HZ	(0.20)	105	(0.20)	105	(0.20)	105	(0.20)	105	(0.20)	105	(0.20)	105
	50HZ	(0.20)	105	(0.20)	105	(0.20)	105	(0.20)	105	(0.20)	105	(0.20)	105
253	60HZ	-	-	-	-	-	-	-	-	-	-	-	-
	50HZ	-	-	-	-	-	-	-	-	-	-	-	-
262	60HZ	(0.40)	185	(0.40)	185	(0.40)	185	(0.40)	185	(0.40)	185	(0.40)	185
	50HZ	(0.40)	185	(0.40)	185	(0.40)	185	(0.40)	185	(0.40)	185	(0.40)	185
263	60HZ	-	-	-	-	-	-	-	-	-	-	-	-
	50HZ	-	-	-	-	-	-	-	-	-	-	-	-
272	60HZ	(0.40)	230	(0.40)	230	(0.20)	230	(0.20)	230	(0.20)	230	(0.20)	230
	50HZ	(0.40)	230	(0.40)	230	(0.20)	230	(0.20)	230	(0.20)	230	(0.20)	230
273	60HZ	-	-	-	-	-	-	-	-	-	-	-	-
	50HZ	-	-	-	-	-	-	-	-	-	-	-	-
274	60HZ	-	-	-	-	-	-	-	-	-	-	-	-
	50HZ	-	-	-	-	-	-	-	-	-	-	-	-
282	60HZ	(0.75)	415	(0.75)	415	(0.75)	415	(0.40)	415	(0.40)	415	(0.40)	415
	50HZ	(0.75)	415	(0.75)	415	(0.75)	415	(0.40)	415	(0.40)	415	(0.40)	415
284	60HZ	(0.75)	415	(0.75)	415	(0.75)	415	-	-	-	-	-	-
	50HZ	(0.75)	415	(0.75)	415	(0.75)	415	-	-	-	-	-	-
293	60HZ	0.87	740	(0.75)	740	(0.75)	740	(0.75)	740	(0.75)	740	(0.75)	740
	50HZ	0.80	740	(0.75)	740	(0.75)	740	(0.75)	740	(0.75)	740	(0.75)	740
294	60HZ	-	-	-	-	-	-	-	-	-	-	-	-
	50HZ	-	-	-	-	-	-	-	-	-	-	-	-
296	60HZ	-	-	-	-	-	-	-	-	-	-	-	-
	50HZ	-	-	-	-	-	-	-	-	-	-	-	-
2104	60HZ	(1.50)	1150	(1.50)	1150	(1.50)	1150	(1.50)	1150	(1.50)	1150	(1.50)	1150
	50HZ	(1.50)	1150	(1.50)	1150	(1.50)	1150	(1.50)	1150	(1.50)	1150	(1.50)	1150
2106	60HZ	-	-	-	-	-	-	-	-	-	-	-	-
	50HZ	-	-	-	-	-	-	-	-	-	-	-	-
2224	60HZ	1.77	1450	1.70	1450	1.53	1450	(1.50)	1450	(1.50)	1450	(1.50)	1450
	50HZ	(1.50)	1450	(1.50)	1450	(1.50)	1450	(1.50)	1450	(1.50)	1450	(1.50)	1450
2226	60HZ	-	-	-	-	-	-	-	-	-	-	-	-
	50HZ	-	-	-	-	-	-	-	-	-	-	-	-
2116	60HZ	(2.20)	1850	(2.20)	1850	(2.20)	1850	(2.20)	1850	(2.20)	1850	(2.20)	1850
	50HZ	(2.20)	1850	(2.20)	1850	(2.20)	1850	(2.20)	1850	(2.20)	1850	(2.20)	1850
2117	60HZ	-	-	-	-	-	-	-	-	-	-	-	-
	50HZ	-	-	-	-	-	-	-	-	-	-	-	-
2246	60HZ	2.91	2100	2.82	2400	2.52	2400	(2.20)	2400	(2.20)	2400	(2.20)	2400
	50HZ	2.42	2100	2.35	2400	(2.20)	2400	(2.20)	2400	(2.20)	2400	(2.20)	2400
2247	60HZ	-	-	-	-	-	-	-	-	-	-	-	-
	50HZ	-	-	-	-	-	-	-	-	-	-	-	-
2128	60HZ	(5.5)	3100	(5.5)	3100	(5.5)	3100	(5.5)	3100	(5.5)	3100	(5.5)	2700
	50HZ	(5.5)	3100	(5.5)	3100	(5.5)	3100	(5.5)	3100	(5.5)	3100	(5.5)	2700
2258	60HZ	(5.5)	4150	(5.5)	4150	(5.5)	4150	(5.5)	4150	(5.5)	4150	(5.5)	3600
	50HZ	(5.5)	4150	(5.5)	4150	(5.5)	4150	(5.5)	4150	(5.5)	4150	(5.5)	3600

7-1 Capacity (Input / Output)

3481		3741		4437		5133		6177		7569		Reduction ratio	
(59X59)		(87X43)		(87X51)		(87X59)		(87X71)		(87X87)			
0.52		0.48		0.41		0.35		0.29		0.24		60HZ	Output RPM
0.43		0.40		0.34		0.29		0.24		0.20		50HZ	
Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Input capacity KW	Output torque Kgf-m	Frame	
(0.20)	52.0	(0.20)	52.0	(0.20)	52.0	(0.20)	52.0	(0.20)	52.0	(0.20)	52.0	60HZ	232
(0.20)	52.0	(0.20)	52.0	(0.20)	52.0	(0.20)	52.0	(0.20)	52.0	(0.20)	52.0	50HZ	
(0.20)	78.0	(0.20)	78.0	(0.20)	78.0	(0.20)	78.0	(0.20)	78.0	(0.20)	78.0	60HZ	242
(0.20)	78.0	(0.20)	78.0	(0.20)	78.0	(0.20)	78.0	(0.20)	78.0	(0.20)	78.0	50HZ	
-	-	-	-	-	-	-	-	-	-	-	-	60HZ	243
-	-	-	-	-	-	-	-	-	-	-	-	50HZ	
(0.20)	105	(0.20)	105	(0.20)	105	(0.20)	105	(0.20)	105	(0.20)	105	60HZ	252
(0.20)	105	(0.20)	105	(0.20)	105	(0.20)	105	(0.20)	105	(0.20)	105	50HZ	
-	-	-	-	-	-	-	-	-	-	-	-	60HZ	253
-	-	-	-	-	-	-	-	-	-	-	-	50HZ	
(0.40)	185	(0.40)	185	(0.40)	185	(0.40)	185	(0.40)	185	(0.40)	185	60HZ	262
(0.40)	185	(0.40)	185	(0.40)	185	(0.40)	185	(0.40)	185	(0.40)	185	50HZ	
-	-	-	-	-	-	-	-	-	-	-	-	60HZ	263
-	-	-	-	-	-	-	-	-	-	-	-	50HZ	
(0.20)	230	(0.20)	230	(0.20)	230	(0.20)	230	(0.20)	230	(0.20)	230	60HZ	272
(0.20)	230	(0.20)	230	(0.20)	230	(0.20)	230	(0.20)	230	(0.20)	230	50HZ	
-	-	-	-	-	-	-	-	-	-	-	-	60HZ	273
-	-	-	-	-	-	-	-	-	-	-	-	50HZ	
-	-	-	-	-	-	-	-	-	-	-	-	60HZ	274
-	-	-	-	-	-	-	-	-	-	-	-	50HZ	
(0.40)	415	(0.40)	415	(0.40)	415	(0.40)	415	(0.40)	415	(0.40)	415	60HZ	282
(0.40)	415	(0.40)	415	(0.40)	415	(0.40)	415	(0.40)	415	(0.40)	415	50HZ	
-	-			-	-	-	-	-	-	-	-	60HZ	284
-	-			-	-	-	-	-	-	-	-	50HZ	
(0.75)	740	(0.75)	740	(0.75)	740	(0.75)	740	(0.75)	740	(0.75)	740	60HZ	293
(0.75)	740	(0.75)	740	(0.75)	740	(0.75)	740	(0.75)	740	(0.75)	740	50HZ	
-	-	-	-	-	-	-	-	-	-	-	-	60HZ	294
-	-	-	-	-	-	-	-	-	-	-	-	50HZ	
-	-	-	-	-	-	-	-	-	-	-	-	60HZ	296
-	-	-	-	-	-	-	-	-	-	-	-	50HZ	
(1.50)	1150	(1.50)	1150	(1.50)	1150	(1.50)	1150	(1.50)	1150	(1.50)	1150	60HZ	2104
(1.50)	1150	(1.50)	1150	(1.50)	1150	(1.50)	1150	(1.50)	1150	(1.50)	1150	50HZ	
-	-	-	-	-	-	-	-	-	-	-	-	60HZ	2106
-	-	-	-	-	-	-	-	-	-	-	-	50HZ	
(1.50)	1450	(1.50)	1450	(1.50)	1450	(1.50)	1450	(1.50)	1450	(1.50)	1450	60HZ	2224
(1.50)	1450	(1.50)	1450	(1.50)	1450	(1.50)	1450	(1.50)	1450	(1.50)	1450	50HZ	
-	-	-	-	-	-	-	-	-	-	-	-	60HZ	2226
-	-	-	-	-	-	-	-	-	-	-	-	50HZ	
(2.20)	1850	(2.20)	1850	(2.20)	1850	(2.20)	1850	(2.20)	1850	(2.20)	1850	60HZ	2116
(2.20)	1850	(2.20)	1850	(2.20)	1850	(2.20)	1850	(2.20)	1850	(2.20)	1850	50HZ	
-	-			-	-	-	-	-	-	-	-	60HZ	2117
-	-			-	-	-	-	-	-	-	-	50HZ	
(2.20)	2400	(2.20)	2400	(2.20)	2400	(2.20)	2400	(2.20)	2400	(2.20)	2400	60HZ	2246
(2.20)	2400	(2.20)	2400	(2.20)	2400	(2.20)	2400	(2.20)	2400	(2.20)	2400	50HZ	
-	-	-	-	-	-	-	-	-	-	-	-	60HZ	2247
-	-	-	-	-	-	-	-	-	-	-	-	50HZ	
(5.5)	3100	(5.5)	3100	(5.5)	2700	(5.5)	3100	(5.5)	2700	(5.5)	2700	60HZ	2128
(5.5)	3100	(5.5)	3100	(5.5)	2700	(5.5)	3100	(5.5)	2700	(5.5)	2700	50HZ	
(5.5)	4150	(5.5)	4150	(5.5)	3600	(5.5)	4150	(5.5)	3600	(5.5)	3600	60HZ	2258
(5.5)	4150	(5.5)	4150	(5.5)	3600	(5.5)	4150	(5.5)	3600	(5.5)	3600	50HZ	

When attaching a gear or pulley to M-DRIVE, check that radial loads do not exceed the permissible range.

Fs : Loads factor (refer to p.10)

Drive connection	Cf
Chain	1
Gear or Pinion	1.25
V-Belt	1.5
Flat-Belt	2.5

(Cf, Lf, Fs = 1)

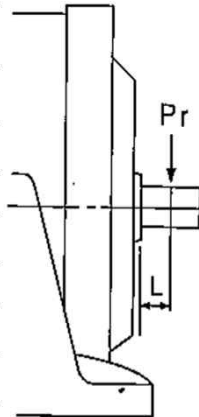
Frame No.		RPM of Output Shaft																							
Single red.	Double red.	~1	2	3	4	5	6	8	10	15	20	25	30	35	40	50	60	80	100	125	150	200	250	300	
102		340	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340	331	311	283	263	248	
103	232	880	880	880	880	880	880	880	880	880	880	880	880	880	880	880	834	758	704	653	614	558	518	486	
104	242, 243	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1290	1210	1150	1100	1020	963	875	813	754	710	645	599	564	
105	252, 253	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1460	1400	1310	1240	1140	1060	994	941	863	808	764	
106	262, 263	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	1980	1880	1800	1680	1580	143	1330	1230	1160	50	976	919	
107	272, 273, 274	2800	2800	2800	2800	2800	2800	2800	2800	2800	2660	2480	2330	2210	2110	1960	1850	1680	1560	1450	1360	1240	1150	1080	
108	282, 283	3800	3800	3800	3800	3800	3800	3800	3800	3800	3580	3330	3130	2960	2840	2640	2480	2250	2090	1940	1830	1660	-	-	
109	293, 294, 296	5300	5300	5300	5300	5300	5300	5300	5300	5300	5000	4650	4380	41550	3980	3690	3480	3150	2930	2710	2560	2330	-	-	
110	2104, 2106	8780	8780	8780	8780	8780	8780	8780	8780	8460	7760	7260	6880	6560	6300	5900	5590	5130	4790	4480	4240	3890	-	-	
122, 111	2224, 2226, 2116, 2117	14800	14800	14400	13300	12400	11700	10800	10100	8900	8160	7640	7240	6900	6640	6200	5880	5390	5040	4710	4460	4100	-	-	
124, 112	2246, 2247, 2128	21200	21200	20000	18400	17100	16300	14900	14000	12400	11300	10500	10000	9580	9200	8610	8150	7480	6990	6540	-	-	-	-	
125	2258	26300	26300	24500	22500	21000	19900	18300	17000	15100	13900	13000	12300	11700	11300	10500	9960	9140	8550	8000	-	-	-	-	

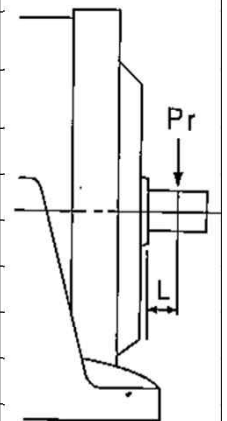
Frame No.		Distance From Collar Surface L (mm)																								
Single red.	Double red.	5	10	15	20	25	30	35	40	45	50	60	70	80	90	100	120	140	160	180	200	225	250	275	300	
102		0.82	0.91	1	1.29	1.59	1.88																			
103	232		0.82	0.87	0.92	0.97	1.08	1.25	1.42	1.59	1.76															
104	242, 243			0.83	0.87	0.92	0.96	1	1.13	1.25	1.38	1.38	1.88													
105	252, 253				0.66	0.73	0.8	0.87	0.93	1	1.1	1.3	1.5	1.7	1.9											
106	262, 263				0.83	0.87	0.9	0.93	0.97	1	1.11	1.32	1.53	1.75	1.96											
107	272, 273, 274				0.86	0.89	0.92	0.94	0.97	1	1.11	1.32	1.53	1.75	1.96											
108	282, 283					0.85	0.87	0.9	0.993	0.95	0.98	1.09	1.26	1.43	1.60	1.78										
109	293, 294, 296						0.85	0.87	0.89	0.91	0.93	0.97	1.04	1.18	1.32	1.46	1.75									
110	2104, 2106								0.7	0.73	0.77	0.84	0.91	0.98	1.05	1.13	1.27	1.41	1.56							
122, 111	2224, 2226, 2116, 2117								0.86	0.88	0.9	0.93	0.96	0.99	1.02	1.06	1.12	1.19	1.25							
124, 112	2246, 2247, 2128								0.83	0.84	0.86	0.89	0.92	0.94	0.97	1	1.06	1.11	1.17	1.23	1.29					
125	2258									0.83	0.85	0.88	0.9	0.93	0.95	1	1.05	1.1	1.22	1.36	1.52	1.69				

Input shaft overhung loads

Frame No.		RATIO	Shaft Speed RPM						
Single red.	Double red.		1800	1500	1200	1000	900	750	600
102	232, 242, 252, 262, 272, 282	6~17, 25~71, 119	30	30	30	30	30	30	30
		21, 87	20	20	20	20	25	25	30
103	252, 253, 263, 273, 293	6~17	60	70	75	80	90	90	90
		21~87	55	45	50	55	60	90	90
104	274, 284, 294, 2104, 2224	6~17, 21	140	140	140	155	165	175	190
		25~87	130	130	130	140	150	160	180
105		11~17	140	140	140	155	165	175	190
		21~87	130	130	130	140	150	160	180
106	296, 2106, 2226, 2116, 2246	8~25, 51, 59	180	180	200	210	220	220	220
		29~43, 71, 87	110	120	130	140	140	160	180
107	2117, 22477	11~87	210	210	230	230	240	250	270
108	2128, 2258	11~87	280	260	280	300	310	340	350
109		11~25	310	310	330	360	370	400	400
		29~87	270	260	290	300	320	340	370
110		11~87	585	520	555	625	645	695	740
122, 111		11~87	675	590	610	655	675	710	765
124, 112		11~87			1130	1030	1030	1080	1140
125		11~87			1200	1100	1150	1250	1340

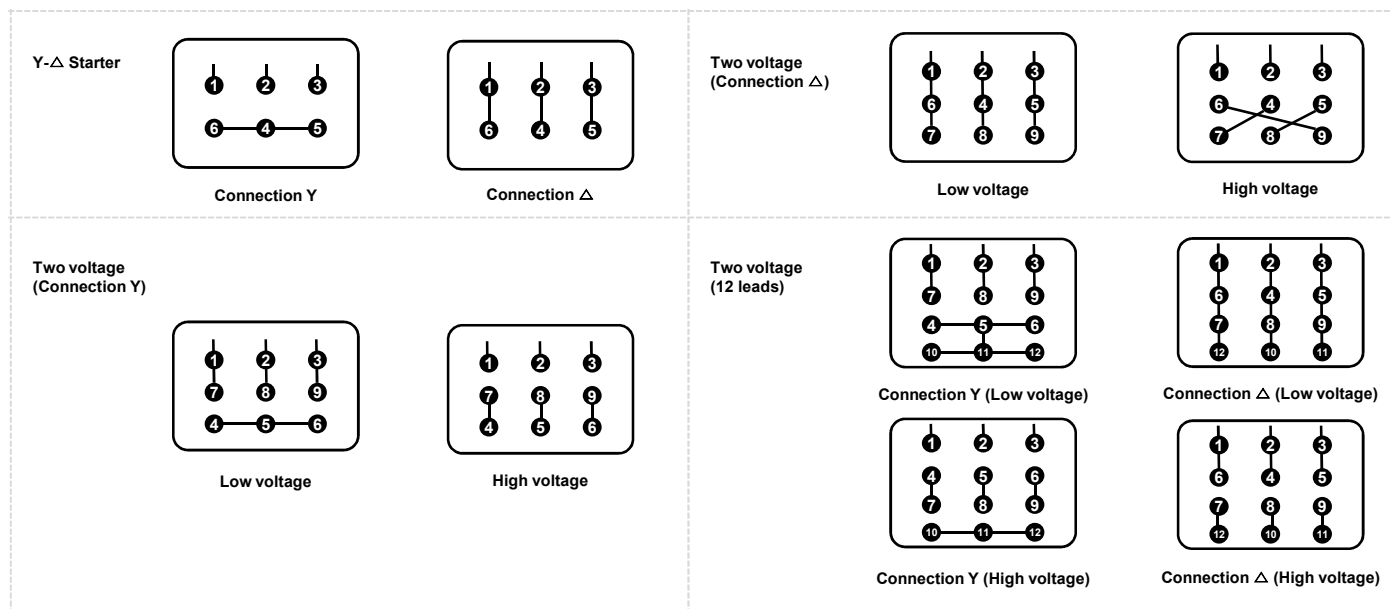
Input shaft radial correction factor for load position: Lf

Frame No.		Distance From Collar Surface L (mm)																				
Single red.	Double red.	5	10	15	20	25	30	35	40	45	50	60	70	80	90	100	120	140	160	180	200	
102	232, 242, 252, 262, 272, 282	0.88	0.96	1.2	1.59	2	2.38															
103	252, 253, 263, 273, 293		0.81	0.93	1.14	1.41	1.67	1.96	2.22													
104	274, 284, 294, 2104, 2224		0.78	0.89	1	1.23	1.45	1.69	1.92	2.13												
105			0.78	0.89	1	1.23	1.45	1.69	1.92	2.13												
106			0.92	0.95	0.98	1.05	1.18	1.28	1.41	1.52	1.64	1.85										
107	2117, 22477			0.93	0.96	0.99	1.05	1.16	1.28	1.39	1.49	1.72	1.92	2.17								
108	2128, 2258				0.93	0.96	0.99	1.05	1.16	1.28	1.39	1.49	1.72	1.92	2.17							
109					0.93	0.95	0.98	1	1.09	1.16	1.25	1.41	1.59	1.75	1.92	2.08						
110						0.93	0.95	0.98	1	1.03	1.08	1.19	1.29	1.4	1.51	1.61	1.82					
122, 111						0.94	0.96	0.98	1	1.02	1.04	1.08	1.14	1.24	1.33	1.42	1.59					
124, 112						0.91	0.92	0.94	0.96	0.98	0.99	1.07	1.15	1.24	1.33	1.42	1.59					
125								0.92	0.93	0.94	0.96	0.99	1.03	1.09	1.16	1.22	1.34	1.47	1.6	1.72		



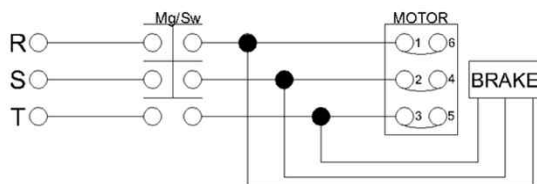
7-3 Motor and Brake Connection Information

Three-phase induction motor connection

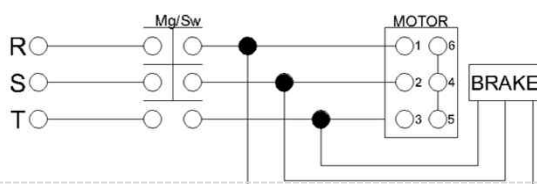


Break control wiring

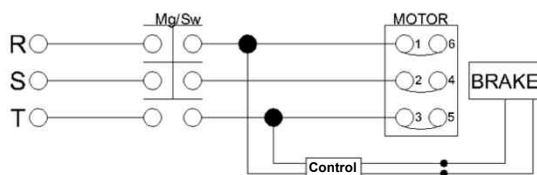
AC-B
220V



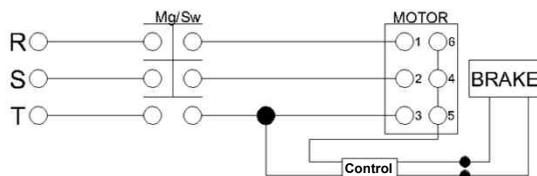
AC-B
380V



DC-B
220V
(Internal type)



DC-B
380V
(Internal type)



DC-A
440V
(External type)

