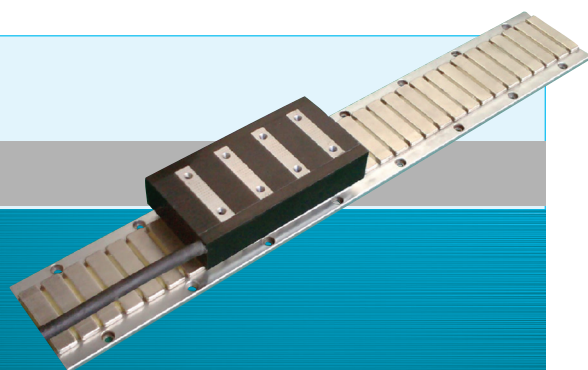


SWL-PL SERIES

IronCore Linear Motor



BASIC SPECIFICATIONS

- ▶ Rating Condition : Continuous
- ▶ Voltage Endurance : AC1500V, 1Min
- ▶ Operating Temperature : 0~40°C
- ▶ Coil Insulation Class : F Class (155°C)
- ▶ Hall Effect Device : Optional
- ▶ Power Supply Requirement : Trapezoidal or Sinusoidal 3-phase Brushless Amplifier.



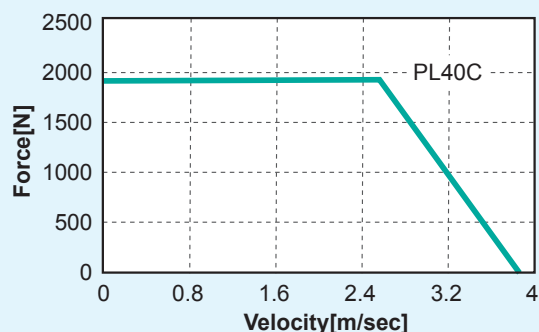
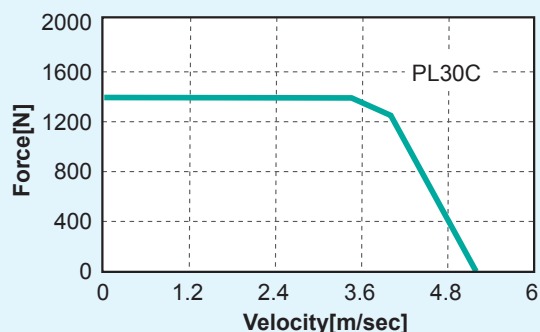
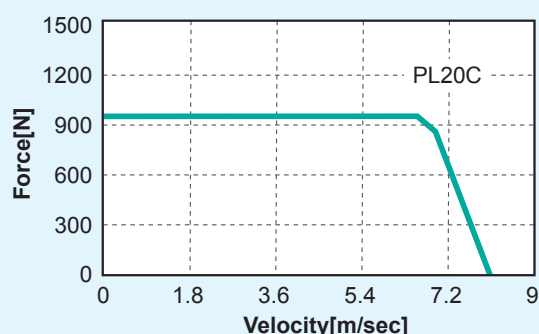
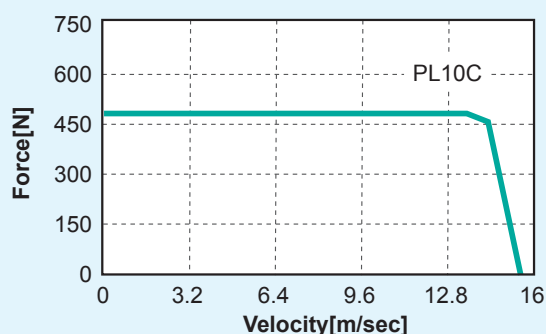
PERFORMANCE SPECIFICATIONS

		Unit	SWL-PL10C	SWL-PL20C	SWL-PL30C	SWL-PL40C
Continuous	Force	N	162.6	319.3	480.5	639.3
	Current	Arms	6.4	6.4	6.4	6.4
Max.	Force	N	487.8	957.9	1441.5	1917.9
	Current	Arms	19.2	19.2	19.2	19.2
Force Constant (K _f)		N / Arms	25.41	49.89	75.08	99.89
Back EMF Constant (K _e)		V _{rms} / (m/sec)	8.40	16.60	24.88	33.13
Electrical Time Constant		msec	6.43	6.39	6.38	6.36
Resistance (Line to line)		Ω	1.18	2.36	3.54	4.72
Inductance (Line to line)		mH	7.59	15.08	22.59	30.03
Power Loss		W	72.5	145.0	217.5	290.0
Normal Force		N	690	1380	2070	2760
Mover Weight		kg	2.47	4.27	6.07	7.87

◆ Magnet Pole pitch(N-N) : 42mm, Stator Weight : 6.9kg/m

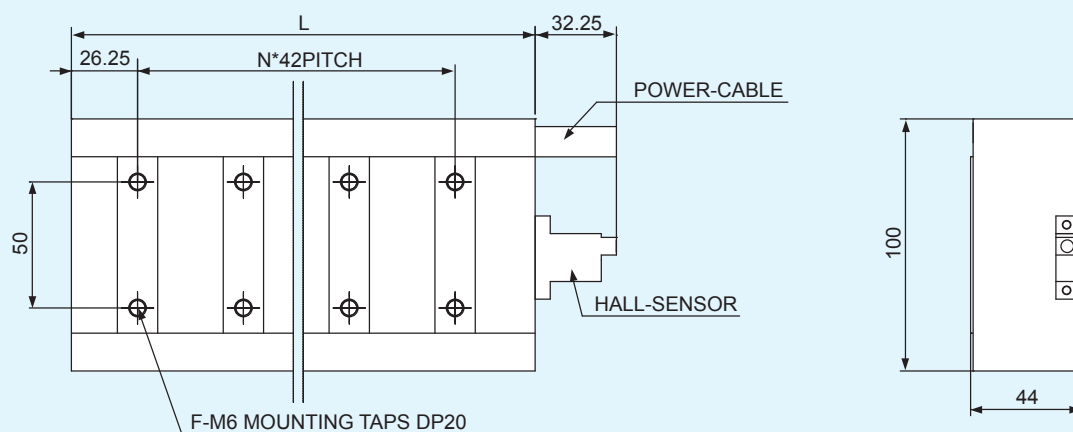


FORCE VS. VELOCITY CHARACTERISTICS

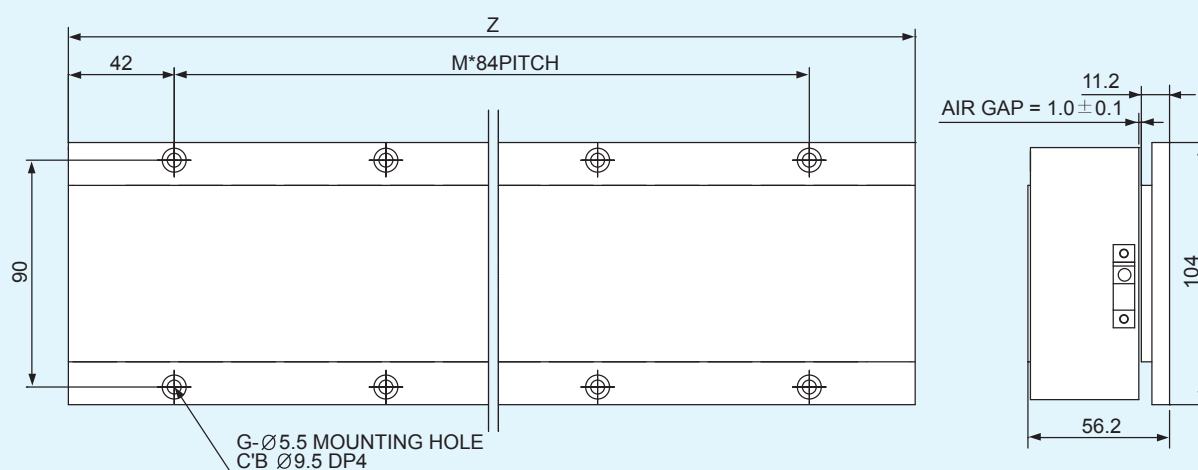


MECHANICAL DIMENSIONS

Mover Dimensions



Stator Dimensions



Mover

Model SWL-PL	L	N	F
10C	100	1	4
20C	184	3	8
30C	268	5	12
40C	352	7	16

◆ Check the page 64 for cable and connector types

Stator

Model SWL-PL	Z	M	G
168	168	1	4
252	252	2	6
336	336	3	8
420	420	4	10
504	504	5	12
588	588	6	14

The specifications above are subject to change for enhancement of product performance, Without any prior notice.