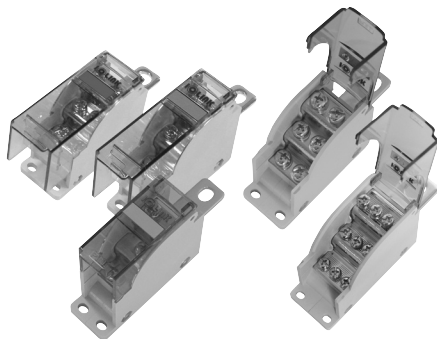


SPD Series Directly Connected Screw Type Power Distribution Block

User's Guide



Thank you for purchasing product of SAMWON ACT.
Please check model of product that you purchase first, and read this manual prior to use it.

● Caution for Safety

⚠ Caution Case that results in serious damage in human body or equipment, and fire if user handles this equipment wrongly

⚠ Warning Case that results in slight damage in human body or equipment, and fire if user handles this equipment wrongly

⚠ Caution

1. Do not allow foreign substances such as dust or wire sheath to enter the connection terminals.
It may cause damage, fever, and ignition of the main body.
2. When installing or wiring, please cut off the external power supply or circuit breaker first.
It may cause electric shock or short circuit accidents.

⚠ Warning

1. Use within the specified temperature range, (-25°C ~ +55°C) Damage to the outer case may occur.
2. Use within the specified rated voltage and rated current range. This may result in fire or damage.
3. When wiring, please tighten it with the specified torque using the appropriate tool,
if it is outside of this range torque,
it may cause malfunction due to breakage or looseness of tightening surface terminal.

● Model Configuration

Classification	Series
SPD	Directly Connected Screw Type Power Distribution Block

Classification	Pitch
25	25mm
30	30mm
35	35mm
35L	35mm

SPD 25 - 6 * M4 - S

Classification	Window Option
No indication	Normal
S	Safety window

Classification	Branch side Terminal Screw
6 * M4	M4 * 6ea
9 * M4	M4 * 9ea
3 * M5	M5 * 3ea
6 * M5	M5 * 6ea
3 * M6	M6 * 3ea
5 * M6	M6 * 5ea

● Model Selection

Model	Rated Capacity	Pitch	Applicable Frame (LSIS Standard)	Rating (Note1) (IEC wire)	Terminal Screw	Dimensions (W * D mm) (Note2)	Mounting method
SPD25-6 * M4	UL : 600V 100A	25mm	30~100AF	1.5~4mm ²	M4 * 6ea	25 * 69 (92)	Screw mounting
SPD25-6 * M4-S	CE : 600V 75A			4~16mm ²	M5 * 3ea	25 * 83 (106)	
SPD25-3 * M5						25 * 69 (92)	
SPD25-3 * M5-S						25 * 83 (106)	
SPD30-6 * M5	UL : 600V 125A	30mm	125AF	4~16mm ²	M5 * 6ea	30 * 69 (94)	
SPD30-6 * M5-S	CE : 600V 100A			6~16mm ²	M6 * 3ea	30 * 83 (108)	
SPD30-3 * M6						30 * 69 (94)	
SPD30-3 * M6-S						30 * 83 (108)	
SPD35-9 * M4		35mm	250AF	2.5~4mm ²	M4 * 9ea	35 * 69 (98)	
SPD35-9 * M4-S	UL : 600V 150A			4~16mm ²	M5 * 6ea	35 * 83 (112)	
SPD35-6 * M5	CE : 600V 150A			6~16mm ²	M6 * 5ea	35 * 69 (98)	
SPD35-6 * M5-S						35 * 83 (112)	
SPD35-5 * M6		35mm	250AF	2.5~4mm ²	M4 * 9ea	35 * 82 (111)	
SPD35-5 * M6-S	UL : 600V 250A			4~16mm ²	M5 * 6ea	35 * 96 (125)	
SPD35L-9 * M4	CE : 600V 250A			6~16mm ²	M6 * 5ea	35 * 82 (111)	
SPD35L-9 * M4-S						35 * 96 (125)	
SPD35L-6 * M5		35mm	250AF	2.5~4mm ²	M4 * 9ea	35 * 82 (111)	
SPD35L-6 * M5-S	UL : 600V 250A			4~16mm ²	M5 * 6ea	35 * 96 (125)	
SPD35L-5 * M6				6~16mm ²	M6 * 5ea	35 * 82 (111)	
SPD35L-5 * M6-S						35 * 96 (125)	

Note1) The twin wiring is possible when the outer diameter of the cable is less than Ø4.5.

Note2) Dimensions in parentheses are the dimensions with bus bar.

● Rated current for wiring sectional area (IEC Standard)

Cross-section mm ²	1	1.5	2.5	4	6	10	16	25	35	50	70	90	120
AWG/kcmil	17	16	14	12	10	8	6	4	2	0	00	000	250kcmil
Rated current [A]	13.5	17.5	24	32	41	57	76	101	125	150	192	232	269

● Applicable crimp terminal (Branch side)



Model	A(MAX)	B(MIN)	C(MAX)	D(MIN)
M4	9.1	4	4.5	6.2
M5	12	5	5.8	6.5
M6	12.5	6	6.4	6.5

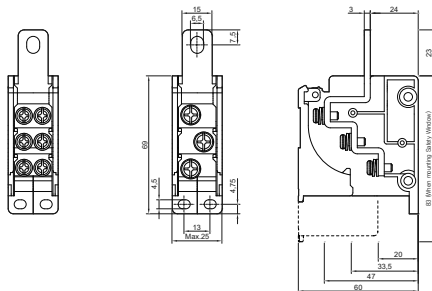
● Material/Specification

Case	Modified PPO
Protective cover	Polycarbonate
Pin header	Brass / Nickel-Plated
Ambient temperature	-25°C ~ +55°C (No condensation)
Temperature rise	Temperature rise of conductive bracket 45°C or less
Frequency dielectric strength	2,500V/1min
Impulse dielectric strength	6,000V

● Dimension

• SPD25-□*□

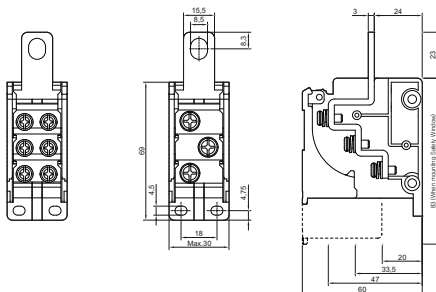
[SPD25-6*M4-□] [SPD30-3*M6-□]



Model	Pitch	Terminal Screw	Mounting Torque	Dimensions (W × D mm)	Mounting Screw
SPD25-6 * M4	25mm	M4 * 6ea	1.4N · m	25 × 69 (92)	M4
SPD25-6 * M4-S		M4 * 6ea	1.4N · m	25 × 83 (106)	
SPD25-3 * M5		M5 * 3ea	2.2N · m	25 × 69 (92)	
SPD25-3 * M5-S		M5 * 3ea	2.2N · m	25 × 83 (106)	

• SPD35-□*□

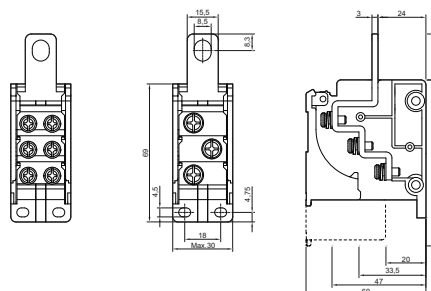
[SPD35-9*M4-□] [SPD35-6*M5-□] [SPD35-5*M6-□]



Model	Pitch	Terminal Screw	Mounting Torque	Dimensions (W × D mm)	Mounting Screw
SPD35-9 * M4	35mm	M4 * 9ea	1.4N · m	35 × 69 (98)	M4
SPD35-9 * M4-S		M4 * 9ea	1.4N · m	35 × 83 (112)	
SPD35-6 * M5		M5 * 6ea	2.2N · m	35 × 69 (98)	
SPD35-6 * M5-S		M5 * 6ea	2.2N · m	35 × 83 (112)	
SPD35-3 * M6		M6 * 5ea	4N · m	35 × 69 (98)	
SPD35-3 * M6-S		M6 * 5ea	4N · m	35 × 83 (112)	

• SPD30-□*□

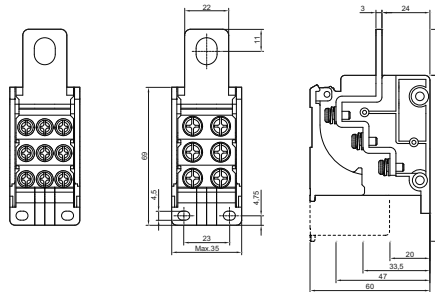
[SPD30-6*M5-□] [SPD35-9*M4-□]



Model	Pitch	Terminal Screw	Mounting Torque	Dimensions (W × D mm)	Mounting Screw
SPD30-6 * M5	30mm	M5 * 6ea	2.2N · m	30 × 60 (94)	M4
SPD30-6 * M5-S		M5 * 6ea	2.2N · m	30 × 83 (108)	
SPD30-3 * M6		M6 * 3ea	4N · m	30 × 60 (94)	
SPD30-3 * M6-S		M6 * 3ea	4N · m	30 × 83 (108)	

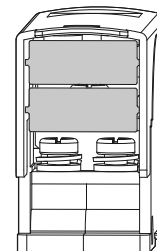
• SPD35L-□*□

[SPD35L-9*M4-□] [SPD35L-6*M5-□] [SPD35L-5*M6-□]



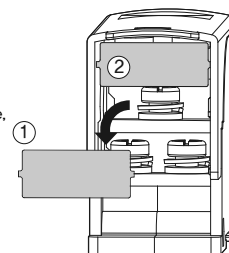
Model	Pitch	Terminal Screw	Mounting Torque	Dimensions (W × D mm)	Mounting Screw
SPD35L-9 * M4	35mm	M4 * 9ea	1.4N · m	35 × 69 (98)	M4
SPD35L-9 * M4-S		M4 * 9ea	1.4N · m	35 × 83 (112)	
SPD35L-6 * M5		M5 * 6ea	2.2N · m	35 × 69 (98)	
SPD35L-6 * M5-S		M5 * 6ea	2.2N · m	35 × 83 (112)	
SPD35L-3 * M6		M6 * 5ea	4N · m	35 × 69 (98)	
SPD35L-3 * M6-S		M6 * 5ea	4N · m	35 × 83 (112)	

● How to use protection cover of secondary side (Safety Window)



※ When wiring only one step, use without removing the protective cover.

※ When wiring a 2 step cable, use after removing ①. When wiring all cables up to 3 step, remove all ① and ② before use.



※ The above specifications are subject to change without notice.
※ Please contact HQ or branch office where you purchased product for A/S of this product or technique.

Major products

- Relay terminal 1, 2, 4, 6, 8, 16, 32point
- Interface terminal 20, 24, 26, 34, 40, 50, 57, 40 x 2pole
- PLC I/O Connecting cables MITSUBISHI, LSIS, CIMON, OMRON, FUJI, YOKOGAWA, HITACHI, SIEMENS, AB, etc.
- Servo Connecting cables Encoder cable, Power cable, Motion cable / MITSUBISHI, YASKAWA, OMRON, PANASONIC, , LSIS, SAMSUNG, etc.
- Wiring harness / Special cable assembly

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