SP High Amperage Plug and Receptacle

Main Advantages

- Safety features provide maximum protection
- Silver, butt-style contact technology maximizes durability
- ▶ IP66/IP67 environmental protection when mated
- Mechanical coding prevents intermating of phases

Features and Ratings	p. 136
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- SP
- Dimensions p. 138

p. 137

PRODUCT FEATURES



General Ratings

Listing	CSA	IEC
Amperage	600 A	700 A
Voltage	600 VAC	1000 VAC / 1500 VDC Max
Frequency	50-400 Hz	50-400 Hz
Horsepower	500 hp	-
Environmental	IP66/IP67	IP66/IP67
Temperature	min - 40 °F/max 140°F	min - 40 °F/max 140°F

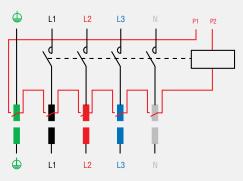
NOM ratings available upon request.

Highlighted Feature



SP plugs and connectors are designed with safety and durability in mind. Each device is mechanically interlocked with an integral pilot circuit switch for controlling the power circuit in order to prevent connection and disconnection under load.

A typical pilot circuit wiring diagram



Operating Instructions



To connect, insert the plug into the receptacle until a click is heard. Rotation of the plug in either direction engages a locking finger, which prevents further



To close the pilot circuit and mechanically lock the plug into the receptacle, turn the ring on the receptacle until the "1" lines up with the arrow. This turns the power on.



To disconnect, open the pilot circuit and unlock the plug by turning the ring until the "O" is aligned with the arrow. The power is now off.



Press firmly on the latch release button and simultaneously pull on the inlet. A slight rotation of the plug may also be required.

HIGH AMPACITY

Single Pole Plugs & Receptacles – 600 A

CSA Ratings

• Max Amperage & Voltage 600 A, 600 VAC To order devices for international applications and for IEC listings

up to 700 A, 1000 VAC/1500 VDC, refer to international CE devices catalog.

- Current Interruption Capability Not for Current Interrupting
- Horsepower Ratings **480 V** 3Ø 500 hp 600 V 3Ø 500 hp CSA HP rated when auxiliary pilots are

wired to control motor control circuit.

- Environmental Ratings IP66/ IP67
- Temperature Range Min -40°F/ Max 140°F
- Wiring Capacity Min 2/0 Max 777 MCM
- Applicable Standards CSA 182.1 (Listing applies to AC devices only)
- Pilot Wiring 1A, 240 VAC, 14 AWG (Prewired)

Don't forget to add installation accessories to your order

		(replacement) (female) without lug	(female) on angle adapter (sold as a set)	(female) on handle (sold as a set)
		North American	Configurations	
North American	Polarity	Part #	Part #	Part #
Color Code	-	without lug	on angle adapter	on handle
	L1	45-44001-P80	45-47001-P80	45-43001-P80
	L2	45-44002-P80	45-47002-P80	45-43002-P80
	L3	45-44003-P80	45-47003-P80	45-43003-P80
	NEUTRAL	45-4400N-P80	45-4700N-P80	45-4300N-P80
	GROUND	45-4400T-P80	45-4700T-P80	45-4300T-P80
	POSITIVE	45-4400P	45-4700P	45-4300P
	NEGATIVE	45-4400M	45-4700M	45-4300M
		Inlet (replacement)	Inlet (male) on	Plug* (male) on
		(male)	angle adapter	handle
		without lug	(sold as a set)	(sold as a set)

Receptacle



Receptacle





Connector*

				North American C	onfigurations	
Suffix	Range	North American	Polarity	Part #	Part #	Part #
-5B	.875 - 1.000"	Color Code	,	without lug	on angle adapter	on handle
-5C	1.000 - 1.125"		L1	45-48001-P80	45-49001-P80	45-41001-P80
-5D	1.125 - 1.250"		L2	45-48002-P80	45-49002-P80	45-41002-P80
-5E	1.250 - 1.375"		L3	45-48003-P80	45-49003-P80	45-41003-P80
-8A	1.250 - 1.375"		NEUTRAL	45-4800N-P80	45-4900N-P80	45-4100N-P80
-8B	1.312 - 1.437"		GROUND	45-4800T-P80	45-4900T-P80	45-4100T-P80
-8C	1.438 - 1.562"		POSITIVE	45-4800P	45-4900P	45-4100P
-8D	1.562 - 1.688"		NEGATIVE	45-4800M	45-4900M	45-4100M

Contact MELTRIC for IEC/CE Part Numbers

*Note: Plugs and Connectors come standard with .750-.875 cable range. For other sizes please refer to table to the left.

INSTALLATION ACCESSORIES – SIZE S

Use with angle 45° or direct mount Use with handle for cord mounting (Bolt Included) .43 11 45-4A50C 45-4A50D 1/0 2/0 45-4A70C 45-4A70D 2/0,3/0 3/0, 4/0 .51 13.1 .57 14.5 45-4A95C 45-4A95D 4/0 250 45-4A12D .64 16.2 45-4A12C 262 300 .71 18 45-4A15C 45-4A15D 300, 313 350 .81 20.6 45-4A18C 45-4A18D 350+, 373 400, 500 .91 23.1 45-4A24C 45-4A24D 444*, 500, 535 600 1.03 26.1 45-4A30C 45-4A30D 646 750 29.2 45-4A40C 45-4A40D 750, 777* 800

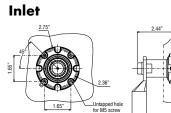
Notes: * Class H & I. UL listing performed with Greenlee EK6IDL11 dieless tool and Dewalt DCE300M2 with Greenlee KC12 dies. *Only for use with Greenlee EK6IDL11 dieless tool

ES	HANDLE	Cabl	e Outside Diameter	Part #
Б	HANDL		.750875 in	45-4A753-A
Z			.875-1.000 in	45-4A753-B
Ŧ		w.	1.000-1.125 in	45-4A753-C
		1.125-1.250 in	45-4A753-D	
			1.250-1.375 in	45-4A753-E
			1.250-1.375 in	45-4A783-A
			1.312-1.437 in	45-4A783-B
			1.438-1.562 in	45-4A783-C
			1.562-1.688 in	45-4A783-D

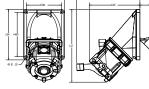
Dimensions Inlet/Receptacle – Provided in inches

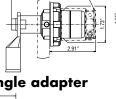
Dimensions do not show drawbar, are for reference only and may change depending on accessories used. For precise dimensions contact MELTRIC Engineering.

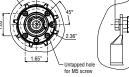
Receptacle



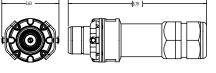
Receptacle on angle adapter



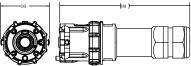




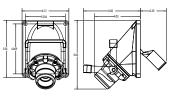
Plugon handle



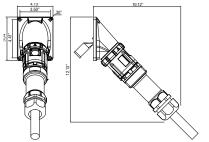
Connector on handle



Inlet on angle adapter



45° Inclined Receptacle/Angle with Plug



- 45° Inclined Inlet/Angle with Connector

SP

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