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



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PRODUCT FEATURES



General Ratings

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 -15°F/max 140°F min -15°F/max 140°F	Listing	CSA	IEC
Frequency 50-400 Hz 50-400 Hz Horsepower 500 hp - Environmental IP66/IP67 IP66/IP67	Amperage	600 A	700 A
Horsepower 500 hp - Environmental IP66/IP67 IP66/IP67	Voltage	600 VAC	1000 VAC / 1500 VDC Max
Environmental IP66/IP67 IP66/IP67	Frequency	50-400 Hz	50-400 Hz
	Horsepower	500 hp	-
Temperature min -15°F/max 140°F min -15°F/max 140°F	Environmental	IP66/IP67	IP66/IP67
	Temperature	min -15°F/max 140°F	min -15°F/max 140°F

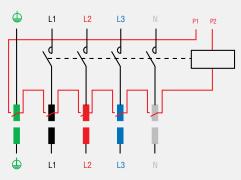
Highlighted Feature





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 rotation.



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.



HIGH AMPACITY

To disconnect, open the pilot circuit and unlock the plug by turning the ring until the "0" 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.

SP 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, use part numbers in the IEC/CE section at bottom of page.

- Current Interruption Capability Not for Current Interrupting
- Horsepower Ratings **480V** 3Ø 500 hp 600V 3Ø 500 hp

CSA HP rated when auxiliary pilots are wired to control motor control circuit.

- Environmental Ratings IP66/IP67
- Temperature Range Min -15°F/Max 140°F
- Wiring Capacity Min 2/0 Max 777 MCM
- Applicable Standards CSA 182.1
- Pilot Wiring 1A, 240 VAC, 14 AWG (prewired)







Don't forget to add installation accessories to your order

North American Configurations

North American Color Code	Polarity	Part # without lug	Part # without lug
	L1	45-44001-P80	45-48001-P80
	L2	45-44002-P80	45-48002-P80
	L3	45-44003-P80	45-48003-P80
	NEUTRAL	45-4400N-P80	45-4800N-P80
	GROUND	45-4400T-P80	45-4800T-P80

			IEC/CE Configurations	
IEC/CE Ratings	European Color	Polarity	Part #	Part #
A	Code	rotanty	without lug	without lug
• Amperage				
700 A	Brown	L1	45-44001	45-48001
 Voltage 	Black	L2	45-44002	45-48002
1000 VAC, 1500 VDC	Grey	L3	45-44003	45-48003
 Environmental Datingo 	Blue	NEUTRAL	45-4400N	45-4800N
 Environmental Ratings IP66/IP67 	Green	GROUND	45-4400T	45-4800T
	Red	POSITIVE	45-4400P	45-4800P
 Temperature Range Min -40°C/Max 60°C 	Black	NEGATIVE	45-4400M	45-4800M

Notes: Not CSA listed

• Wiring Capacity 50 - 400 mm²

 Applicable Standards CE

INSTALLATION ACCESSORIES – SIZE S



45-4A30C

45-4A40C





45-4A30D

45-4A40D

300

400

600

750, 777

400

500

Notes: * Class H & I

26.1

29.2

.43

.51

.57

.64 .71

.81

.91

1.03

1.15

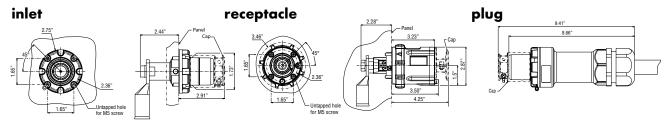
HANDLES

CRIMPING LUGS

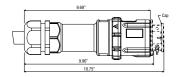
HANDLE	Cable	e Outside Diameter	Part #
		.750875"	45-4A753-A
	.875 - 1.000"	45-4A753-B	
	~	1.000 - 1.125"	45-4A753-C
•		1.125 - 1.250"	45-4A753-D
		1.250 - 1.375"	45-4A753-E
		1.250 - 1.375"	45-4A783-A
		1.312 - 1.437"	45-4A783-B
		1.438 - 1.562"	45-4A783-C
		1.438 - 1.362	40-4A/03-C

Dimensions Inlet/Receptacle – Provided in inches

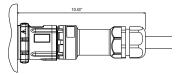
Dimensions are for reference only and may change depending on accessories used. For precise dimensions contact MELTRIC Engineering



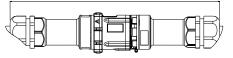
connector



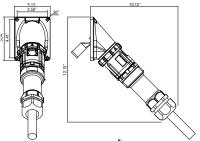
connector with plug on/off



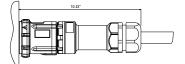
plug/connector



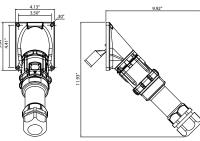
45° inclined receptacle/angle with plug



plug with connector on/off



45° inclined inlet/angle with connector



HIGH AMPACITY

SP

2/0

3/0

4/0

300

400

450

500

750

800

Visit meltric.com to view and download detailed SP drawing files.