

POWERTRON®

DOUBLE THROW SWITCHES (DTS)

POWERTRON DTS switches provide economical, reliable, and safe transfer of low voltage loads between main power and an auxiliary source.

Heavy-duty double-throw switches come standard in a NEMA Type 4/12 powder-coated steel wall-mount enclosure; 4X(316) stainless steel enclosures are also available. Add 'SS' to the end of the part number for stainless steel options. [Example: 4102SESS]

The compact mechanism is completely enclosed, and the rotary operator handle is mounted on the door and lockable in three positions: On Line, Off, and On Auxiliary.

Available for single phase and three phase power. All 2-pole and 3-pole models have a solid neutral bar, and 4-pole models have a switched neutral on the fourth pole.

Lugs are factory installed for connection to switch poles.

Factory-installed auxiliary contacts for remote ON/OFF signaling or electrical interlocking.

Caution: Do not switch between sources with motor loads operating.

MANUAL, 600 VAC RATED, NOT-FUSED, WITH CENTER-OFF POSITION

The switches listed below are rated 100% capacity, continuous duty.

Part Number	Current	Poles	UL98 Listed	SUSE Rated	Approx. Weight (lbs)
4102SE*	100A	2	Yes	Yes	67
4103SE*		3	Yes	Yes	69
4104		4	Yes		71
4202SE*	200A	2	Yes	Yes	78
4203SE*		3	Yes	Yes	80
4204		4	Yes		82
4402SE*	400A	2	Yes	Yes	200
4403SE*		3	Yes	Yes	202
4404		4	Yes		204
4603SE*	600A	3	Yes	Yes	320
4604		4	Yes		323
4803SE*	800A	3	Yes	Yes	407
4804		4	Yes		410
4903	1200A	3	Yes		415
4904		4	Yes		419

Note: *SE stands for Suitable for Use as Service Equipment. SUSE rated switches include upgrades to comply with requirements in NEC2023.

WIRE RANGES

Part Number	Current	Lug Connections (Line, Auxiliary, Load, Neutral)	Wires Allowed per Lug	Lugs per Pole	Lug Image
4102SE	100A	#6 – 300 MCM Cu/Al	1	1	
4103SE					
4104					
4202SE	200A	#6 – 300 MCM Cu/Al	1	1	
4203SE					
4204					
4402SE	400A	#4 – 600 MCM Cu/Al or 1/0 – 250 MCM Cu/Al	1 or 2	1	
4403SE					
4404					
4603SE	600A	#2 – 600 MCM Cu/Al	2	1	
4604					
4803SE	800A	#2 – 600 MCM Cu/Al	2	2	
4804					
4903	1200A	#2 – 600 MCM Cu/Al	2	2	
4904					

**NEC2023
COMPLIANT**



AUXILIARY CONTACTS

81 - COM
82 - NC POS I - LINE
84 - NO

91 - COM
92 - NC POS II - LINE
94 - NO

AUXILIARY DRY CONTACTS

14 - 16 AWG 600V

General Use 10A
250 Vac Max
I min. 100mA

DIMENSIONS OF ENCLOSURES BY MODEL

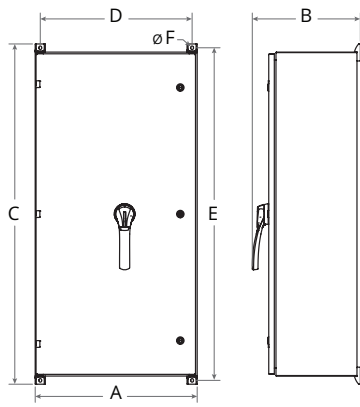


Figure 1.

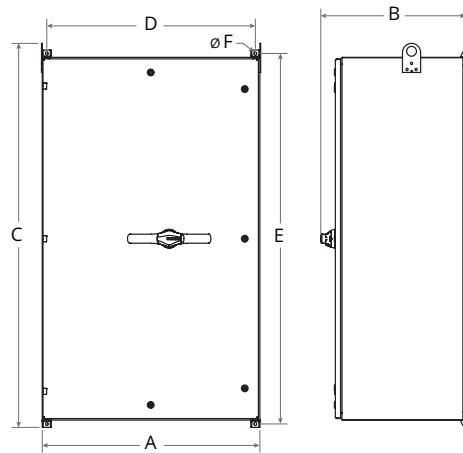


Figure 2.

Part Number	Current	Figure #	A	B	C	D	E	F
4102SE	100A	1	20	13-3/8	26-7/16	18-1/2	25-5/16	7/16
4103SE								
4104								
4202SE	200A	1	20	13-3/8	32-7/16	18-1/2	31-5/16	7/16
4203SE								
4204								
4402SE	400A	1	24	20	50-7/16	22-1/2	49-5/16	7/16
4403SE								
4404								
4603SE	600A	1	36	24-1/16	50-7/16	34-1/2	49-5/16	7/16
4604								
4803SE	800A	2	36	24	63-1/2	34-1/2	61-5/16	7/16
4804								
4903	1200A	2	36	24	63-1/2	34-1/2	61-5/16	7/16
4904								

SERVICE EQUIPMENT BONDING

When the switch is used as Service Equipment, the Bonding Jumper must be installed connecting the Neutral Assembly to the Panel. Reference Article 230 of NFPA 70® / National Electrical Code® for information on Service Installations. Per 230-91, when the Service Overcurrent Device is not an integral part of the Service Disconnecting Means, it "shall be located immediately adjacent thereto". Reference Article 250 for information on grounding and bonding.

For 100-200 Amp units, use the included bonding braid and #10-32 ground screws.

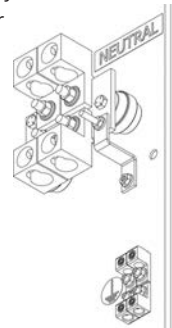
Torque: 30in-lbs.

For 400 Amp units, use the included copper bus bar and 1/4-20 serrated nuts.

Torque: 75in-lbs.

For 600-800 Amp units, use the included copper bus bar and 3/8-16 serrate nuts.

Torque: 240in-lbs.



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