

POWERTRON®

SERIES 4+ MANUAL TRANSFER SWITCHES

Series 4 switches provide economical, reliable, and safe transfer of loads between main power and auxiliary source.

UL 1008 manual transfer switches come standard in a NEMA Type 4/12 powder-coated steel wall-mount enclosure; 4X-316 stainless steel enclosures are also available.

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.



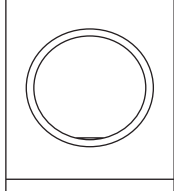
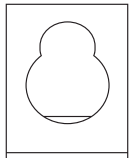
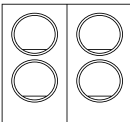
MANUAL, NON-FUSED, WITH CENTER-OFF POSITION

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

Total System Amperage	Poles	240 Volt	480 Volt	600 Volt
100 Amp	2	5102SE*	5103SE* (3P)	5103SE* (3P)
	3	5103SE*	5103SE*	5103SE*
	4	5104	5104	5104
200 Amp	2	5202SE*	5303SE* (3P)	5303SE* (3P)
	3	5203SE*	5303SE*	5303SE*
	4	5204	5304	5304
260 Amp	2	5302SE*	5303SE* (3P)	
	3	5303SE*	5303SE*	
	4	5304	5304	
400 Amp	2	5402SE*	5403SE* (3P)	
	3	5403SE*	5403SE*	
	4	5404	5404	
600 Amp	3	5803SE*	5803SE*	
	4	5804	5804	
700 Amp	3	5803SE*		
	4	5804		

Note: *SE stands for Suitable for Use as Service Equipment.

WIRE RANGES

Part Number	Approx. Weight	Lug Connections (Line, Auxiliary, Load, Neutral)	Wires Allowed per Lug	Lugs per Pole	Lug Image
5102SE	70 lbs.	#6 – 300 MCM Cu/Al	1	1	
5103SE					
5104					
5202SE	80 lbs.	#6 – 300 MCM Cu/Al	1	1	
5203SE					
5204					
5302SE	200 lbs.	#4 – 600 MCM Cu/Al or 1/0 – 250 MCM Cu/Al	1 or 2	1	
5303SE					
5304					
5402SE		#4 – 600 MCM Cu/Al or 1/0 – 250 MCM Cu/Al	1 or 2	1	
5403SE					
5404					
5803SE	400 lbs.	#2 – 600 MCM Cu/Al	2	2	
5804					

DIMENSIONS OF ENCLOSURES BY MODEL

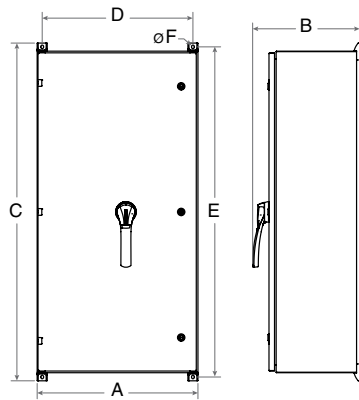


Figure 1.

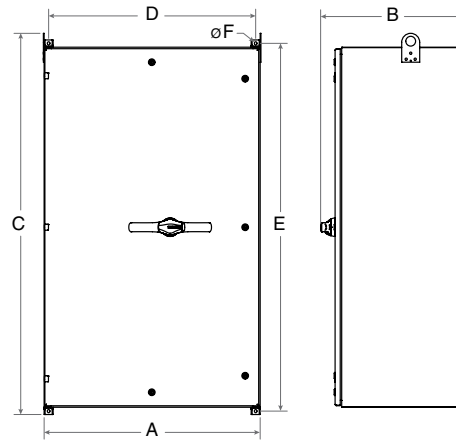


Figure 2.

Part Number	Figure #	A	B	C	D	E	F
5102SE	1	20	13-3/8	26-7/16	18-1/2	25-5/16	7/16
5103SE							
5104							
5202SE	1	20	13-3/8	32-7/16	18-1/2	31-5/16	7/16
5203SE							
5204							
5302SE	1	24	20	50-7/16	22-1/2	49-5/16	7/16
5303SE							
5304							
5402SE	1	24	20	50-7/16	22-1/2	49-5/16	7/16
5403SE							
5404							
5803SE	2	36	24	63-1/2	34-1/2	61-5/16	7/16
5804							

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 5102SE, 5103SE, 5202SE, 5203SE

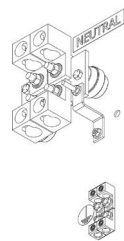
Use the included bonding braid and #10-32 ground screws. Torque: 30in-lbs.

For 5302SE, 5303SE, 5402SE, 5403SE

Use the included copper bus bar and 1/4-20 serrated nuts. Torque: 75in-lbs.

For 5803SE

Use the included copper bus bar and 3/8-16 serrate nuts. Torque: 240in-lbs.



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

RONK

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