

# POWERTRON®

## MANUAL TRANSFER SWITCHES (MTS)

### MANUAL, NON-FUSED, WITH CENTER-OFF POSITION

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

POWERTRON MTS provide economical, reliable, and safe transfer of loads between main power and auxiliary source.

UL1008 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. Add 'SS' to the end of the part number for stainless steel options. [Example: 5102SESS]

The compact operating mechanism is fully enclosed and incorporates a double-break-per-pole design utilizing a sliding bar contact system. This mechanism provides rapid opening and closing action, ensuring the simultaneous disconnection and connection of all power contacts. A door-mounted rotary handle allows operation and can be padlocked in any of three positions: On Line, Off, and On Auxiliary.

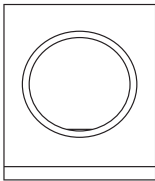
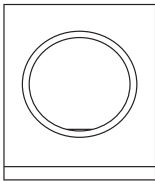
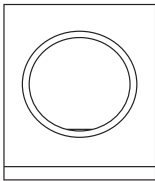
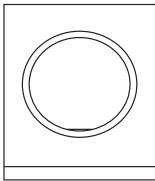

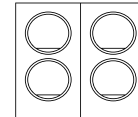
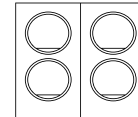
Available for single phase and three phase power. All 2-pole and 3-pole models have a solid neutral bar, and 4-pole models have a switched neutral on the fourth pole.

Lugs are factory installed for connection to switch poles.

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

\*\*Total System Transfer Amperage - Suitable for control of motors, electric discharge lamps, tungsten filament lamps and electric heating equipment where the sum of motor full-load ampere ratings and the ampere ratings of other loads do not exceed the ampere rating of the switch and the tungsten load does not exceed 30 percent of switch rating.

### WIRE RANGES

Part Number	Poles	Lug Connections (Line, Auxiliary, Load, Neutral)	Wires Allowed per Lug	Lugs per Pole	Lug Image
5102SE	2	#6 - 300 MCM Cu/Al	1	1	
5103SE	3				
5104	4				
5202SE	2	#6 - 300 MCM Cu/Al	1	1	
5203SE	3				
5204	4				
5302SE	2	#4 - 600 MCM Cu/Al or 1/0 - 250 MCM Cu/Al	1 or 2	1	
5303SE	3				
5304	4				
5402SE	2	#4 - 600 MCM Cu/Al or 1/0 - 250 MCM Cu/Al	1 or 2	1	
5403SE	3				
5404	4				
5603SE	3	#2 - 600 MCM Cu/Al	2	1	
5604	4				
5803SE	3	#2 - 600 MCM Cu/Al	2	2	
5804	4				
5903	3				
5904	4	#2 - 600 MCM Cu/Al	2	2	

Part Number	General Rating	Total System Transfer**	
		Voltage	Amperage
5102SE	100A 600V	240 Vac	100
5103SE 5104	100A 600V	240 Vac	100
		480 Vac	100
		600 Vac	100
5202SE	200A 600V	240 Vac	200
5203SE 5204	200A 600V	240 Vac	200
		480 Vac	100
		600 Vac	100
5302SE	260A 600V	240 Vac	260
5303SE 5304	260A 600V	240 Vac	260
		480 Vac	260
		600 Vac	200
5402SE	400A 600V	240 Vac	400
5403SE 5404	400A 600V	240 Vac	400
		480 Vac	400
		600 Vac	200
5603SE 5604	600A 600V	240 Vac	400
		480 Vac	350
		600 Vac	
5803SE 5804	800A 600V	240 Vac	700
		480 Vac	600
		600 Vac	
5903 5904	1200A 600V	240 Vac	700
		480 Vac	600
		600 Vac	

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

### AUXILIARY CONTACTS

81 - COM	
82 - NC POS I - LINE	
84 - NO	
_____	
91 - COM	
92 - NC POS II - LINE	
94 - NO	
<b>AUXILIARY DRY CONTACTS</b>	
14 - 16 AWG 600V	
General Use 10A 250 Vac Max I min. 100mA	



## DIMENSIONS OF ENCLOSURES BY MODEL

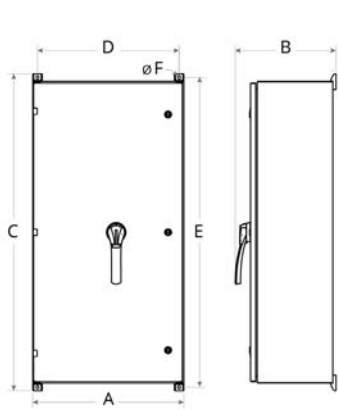


Figure 1.

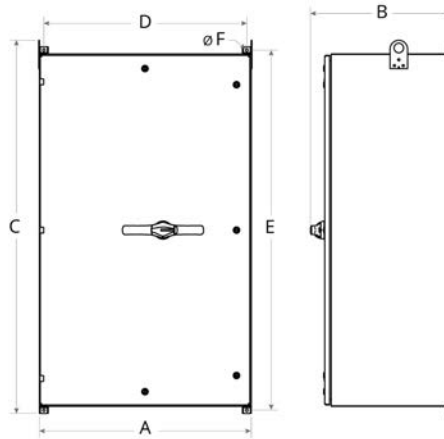


Figure 2.

Part Number	Figure #	Approx. Weight	A	B	C	D	E	F	
5102SE	1	70 lbs.	20	13-3/8	26-7/16	18-1/2	25-5/16	7/16	
5103SE									
5104									
5202SE	1	80 lbs.	20	13-3/8	32-7/16	18-1/2	31-5/16	7/16	
5203SE									
5204									
5302SE	1	200 lbs.	24	20	50-7/16	22-1/2	49-5/16	7/16	
5303SE									
5304									
5402SE	1		320 lbs.	36	24-1/16	50-7/16	34-1/2	49-5/16	7/16
5403SE									
5404									
5603SE	1	400 lbs.	36	24	63-1/2	34-1/2	61-5/16	7/16	
5604									
5803SE	2	415 lbs.	36	24	63-1/2	34-1/2	61-5/16	7/16	
5804									
5903	2	415 lbs.	36	24	63-1/2	34-1/2	61-5/16	7/16	
5904									

## SIRCOVER UL 98/1008

The SIRCOVER UL 98/1008 can also be used as switching means to a temporary power supply in emergency systems (systems needed for human safety) as described in article 700.3(F) of the NEC (see example: "switching means and interlock").

Example of connection for temporary or portable power (1). (1) National Fire Protection Agency, NFPA 70: National Electrical Code®. 2017 Edition. Quincy, MA: National Fire Protection Agency, 2016, p. 70-581.

