

Service and non-Service rated SE Switches

100 - 400 Amps, Single Phase

Data Sheet

Automatic Transfer Switches with Digital Power Management Technology

Description

SE Switches are designed for use with single phase generators that utilize an Evolution™ Controller. The 100, 200, and 400 amp open transition switches are available in single phase in both service equipment rated and non-service equipment rated configurations. The 150 and 300 amp open transition switches are only available in a service rated equipment configuration.

Standard features

100-200 amp SE Switches are housed in an aluminum NEMA/UL Type 3R enclosure*, with electrostatically applied and baked powder paint. The controller at the generator handles all the timing, sensing, exercising functions, and transfer commands. Smart switches are covered by a 5 year limited warranty.

* 300 & 400 amp switches are housed in a steel enclosure.

DPM Technology

Through the use of Digital Power Management technology (DPM), each of these switches has the capability to truly manage two air conditioning loads with no additional hardware. When used in tandem with the Power Management Module (PMM) starter kit, individual PMMs can be used to intelligently manage up to four more additional loads.



*CUL only applies to non-service rated switches

Functions

All timing and sensing functions originate in the generator controller

Utility voltage drop-out	<60%
Timer to generator start	10 second factory set, adjustable between 2-1500 seconds by a qualified dealer*
Engine warm up delay	5 seconds
Standby voltage sensor	60% for 5 seconds
Utility voltage pickup	>80%
Re-transfer time delay	15 seconds
Engine cool-down timer	60 seconds
Exerciser	12 minutes every 7 days

The transfer switch can be operated manually without power applied.

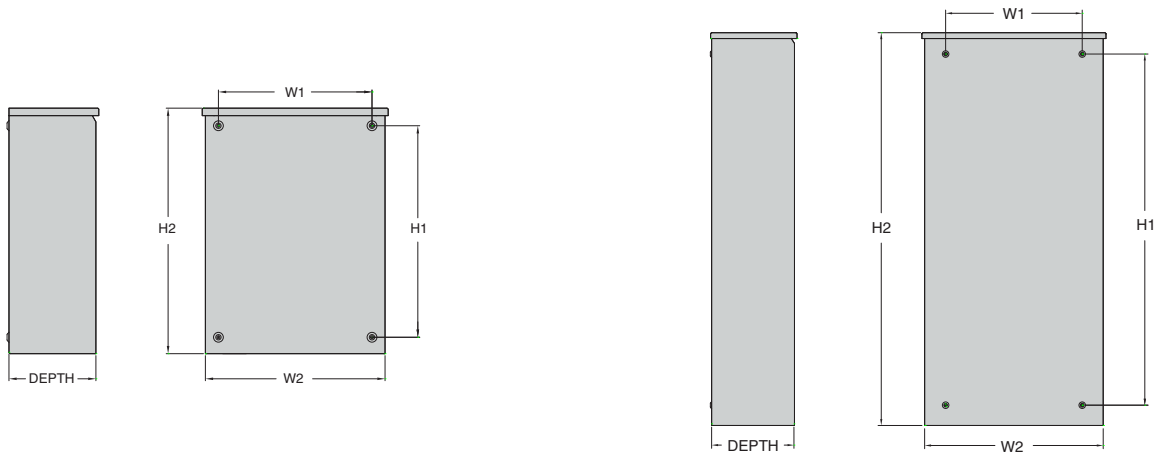
*When used in conjunction with units utilizing Evolution™ controls

Specifications

Model	SE100R	SE100RD	SE150RD	SE200R	SE200RD	SE300RD	SE400R	SE400RD
400 Amps	100	100	150	200	200	300	400	400
Voltage	120/240, 1ø	120/240, 1ø	120/240, 1ø	120/240, 1ø	120/240, 1ø	120/240, 1ø	120/240, 1ø	120/240, 1ø
Load transition type (Automatic)	Open Transition	Open Transition Service Rated	Open Transition Service Rated	Open Transition	Open Transition Service Rated	Open Transition Service Rated	Open Transition	Open Transition Service Rated
Enclosure type	NEMA/UL 3R	NEMA/UL 3R	NEMA/UL 3R	NEMA/UL 3R	NEMA/UL 3R	NEMA/UL 3R	NEMA/UL 3R	NEMA/UL 3R
UL Rating	UL/CUL	UL	UL	UL/CUL	UL	UL	UL/CUL	UL
Withstand rating (Amps)	10,000	10,000	10,000	10,000	10,000	22,000	22,000	22,000
Lug range	1/0 - #14		250 MCM - #6			600 MCM - #4 or 1/0 - 250 MCM		

Dimensions

Model		SE100R	SE100RD	SE150RD	SE200R	SE200RD	SE300RD	SE400R	SE400RD
Height (in./mm)	H1	17.24/437.9	17.24/437.9	26.75/679.4	17.24/437.9	26.75/679.4	42.91/1089.9	31.25/793.8	42.91/1089.9
	H2	20/508	20/508	30/762	20/508	30/762	48/1219.2	36/914.4	48/1219.2
Width (in./mm)	W1	12.5/317.5	12.5/317.5	10.5/266.7	12.5/317.5	10.5/266.7	16.69/423.9	19.18/487.2	16.69/423.9
	W2	14.6/370.8	14.6/370.8	13.5/342.9	14.6/370.8	13.5/342.9	21.82/554.2	24/609.6	21.82/554.2
Depth (in./mm)		7.09/180.1	7.09/180.1	6.3/160.1	7.09/180.1	6.3/160.1	10.06/255.5	10.06/255.5	10.06/255.5
Weight (lbs./kilos)		20/9.07	22.5/10.21	39/17.69	20/9.07	39/17.69	140/63.5	133/60.33	140/63.5



Siemens Industry, Inc.
5400 Triangle Parkway
Norcross, GA 30092

1-800-241-4453
info.us@siemens.com

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