

MCG Surge

MODEL: SE Series, SF-40

100kA/phase model

The new SE series provides high current, industrial grade protection in a rugged, yet compact powder coated, steel enclosure. This ultra small series comes standard with the latest thermally protected protection components which are able to divert high repetitive surge currents. All components are monitored by a comprehensive LED status display. This line is compliant to stringent international surge testing standards. Comes with our 20-year “No Nonsense” warranty.

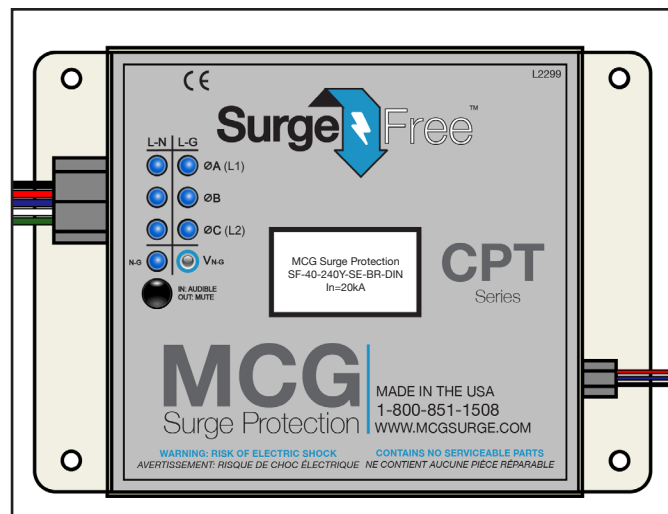
Standout Feature: Compact with thermally-protected MOVs and extensive LED monitoring

Features:

- High repetitive surge current capacity
- Redundant - multiple fused surge paths per phase/line
- IEEE CAT C/B/A all built into one unit
- Thermally-protected, high capacity varistors with individual status monitoring
- 10 gauge, 1m leads are standard
- Space saving, powder coated steel enclosure
- LED status display

Options:

- Relay for remote monitoring
- Comprehensive LED display
- DIN rail mount
- Neutral-Ground voltage LED (models with beeper/relay only)
- Filtering



I_{peak} = 100kA per phase

IEC-61643-11

Cat C/B/A in one unit

20-Year Warranty

Filter Attenuation

MIL STD 220a (50 Ohm)	120VAC	220VAC	240VAC	277VAC	347VAC	480VAC
-30db	25kHz	25kHz	25kHz	50kHz	50kHz	50kHz
-40db	125kHz	180kHz	180kHz	100kHz	100kHz	100kHz
-50db	210kHz	210kHz	210kHz	180kHz	170kHz	170kHz
-60db	250kHz	250kHz	250kHz	200kHz	190kHz	190kHz

Made in the

USA



Ordering information: Choose base model, choose options, specify surge current rating (200kA or 100kA)

Option suffixes (add to base model) :

- For the relay and audible alarm option, add “-BR” suffix. (This option also includes the comprehensive LED display)
- For the beeper option, add “-B” suffix. This option also includes the comprehensive LED display
- For the DIN rail (35mm) mount option, add “-DIN” suffix
- For the filtering option, add “-F” suffix

Ordering example: SF-40-240Y-SE-BR-DIN, 100kA model

This model is a 240/415 Wye, 3 Phase, 4 Wire + Ground protector with the beeper, relay, and DIN rail mount option.

Specifications: SE Series(100kA)

• ANSI / IEEE C62.41-2002 Cats A, B, C

In: 20kA
 I_{max} (per mode): 50kA
 Up (-220Y and -240Y models): <2 kV at 20kA In; <1.3kV at 5kA In; (MCOV 300V including cable connection)
 Install Locations: ANSI/IEEE categories C, B, & A (all in one unit); equivalent to IEC Type I, II, III
 Modes of protection: All modes
 SCCR: 200kA AIC (Note: 150kA AIC for 120VAC models)
 Varistor Headroom: Minimum 25% of nominal AC voltage
 Operating Altitude: 13,000ft. (4000m)
 Temp. (Operating/Storage): -40° to +85°C/-40° to +85°C (-40° to +185°F/-40° to +185°F)
 Cable Connection: 10 AWG (5.27mm sq.) cable, 1 meter (39.37 inches) provided
 Enclosure: NEMA 1, 16 gauge steel (0.050" thick), powder coated
 Dimensions (overall): 7.25"L x 4.25"W x 2.75"D (184 x 108 x 70 mm), Note: L dim includes flanges
 Mounting Dimensions: 6.5" x 3.5"/.220"ID - 4 holes, (165 x 89mm/5.6mm ID) - 4 holes
 Dimensions (overall) for "-xxxD" and relay/beeper models: 7.25"L x 5.25"W x 2.95"D (184 x 134 x 75 mm), Note: L dim includes flanges
 Mounting Dimensions for "-xxxD" and relay/beeper models: 6.5" x 4.5"/.220"ID - 4 holes, (165 x 114mm/5.6mm ID) - 4 holes
 Mounting "-DIN" Models: 35mm DIN rail compatible
 Weight (standard models): 100kA/Phase standard models: 3.1 lbs. (1.4 kg) Max for options: 4.1 lbs. (1.9 kg)
 Conduit Connector Size: 3/4" compression connector. ¼" cord grip for relay/beeper model leads

MODEL SF-40 Series	SERVICE
SF-40-120Y-SE	120/208VAC, 3PH, 4W+G
SF-40-120T-SE	120/240VAC, 1PH, 3W+G
SF-40-120S-SE	120VAC, 2W+G
SF-40-277Y-SE	277/480VAC, 3PH, 4W+G
SF-40-277S-SE	277VAC, 1PH, 2W+G
SF-40-240DCT-SE	240/120/120VAC, 3PH, 4W+G
SF-40-220Y-SE	220/380VAC, 3PH, 4W+G
SF-40-220S-SE	220VAC, 1PH, 2W+G
SF-40-230Y-SE	230/400VAC, 3PH, 4W+G
SF-40-230S-SE	230VAC, 1PH, 2W+G
SF-40-240Y-SE	240/415VAC, 3PH, 4W+G
SF-40-240S-SE	240VAC, 1PH, 2W+G
SF-40-347Y-SE	347/600VAC, 3PH, 4W+G
SF-40-347S-SE	347VAC, 1PH, 2W+G
SF-40-240D-SE	240VAC, 3PH, 3W+G
SF-40-380D-SE	380VAC, 3PH, 3W+G
SF-40-400D-SE	400VAC, 3PH, 3W+G
SF-40-415D-SE	415VAC, 3PH, 3W+G
SF-40-480D-SE	480VAC, 3PH, 3W+G
SF-40-600D-SE	600VAC, 3PH, 3W+G
SF-40-690D-SE-DIN-EC	690VAC, 3Ph, 3W+G, 50/60Hz
SF-40-690D-SE-DIN-HF	690VAC, 3Ph, 3W+G, 5.0-9.5kHz

Note 1) "W"= WIRE, "G"= GROUND

Note 2) When ordering, specify 200kA or 100kA/Ph. model.

Note 3) Specifications are subject to change without notice.

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