

# MCG Surge

MODEL: SE Series, SF-40

## 200kA/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.

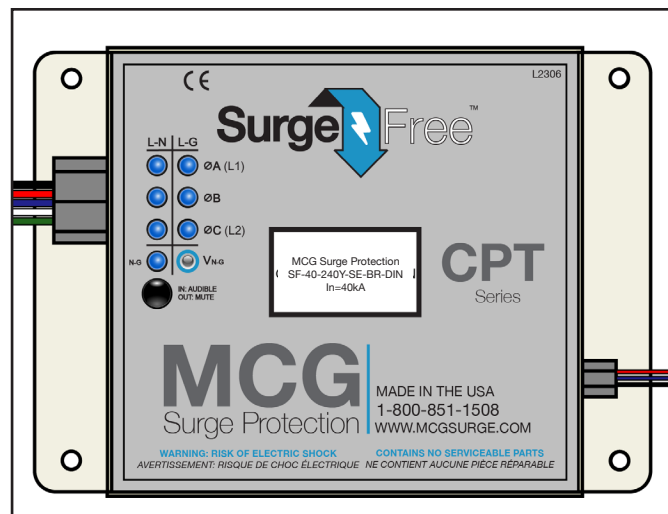
**Standout Feature:** Compact with thermally-protected MOVs and extensive LED monitoring

### 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<sub>peak</sub> = 200kA per phase**

**IEC-61643-11**

Type 2 Tested & 10/350 Tested

**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, 200kA model

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

**MCG Surge Protection** - 12 Burt Drive, Deer Park, NY 11729 - Made in the USA - [www.mcgsurge.com](http://www.mcgsurge.com)  
email: [info1@mcgsurge.com](mailto:info1@mcgsurge.com) phone: 631-586-5125 toll-free: 1-800-851-1508

# Specifications: SE Series(200kA)

- ANSI / IEEE C62.41-2002 Cats A, B, C
- IEC 61643-11 Type Tested

<p>In: 40kA                  I<sub>max</sub> (per mode): 80kA                  Up (-220Y and -240Y models): &lt;2.5kV at 40kA In; &lt;1.3kV at 5kA In; (MCOV 300V including cable connection)                  10/350 μs let-thru: UP&lt;2.0 let-thru voltage for 12.5kA impulse at component terminals                  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): 200kA/Phase standard models: 3.5 lbs. (1.6 kg)                  Weight (relay/beeper and "-xxxD" models): 200kA/Phase (relay/beeper and "-xxxD") models: 4.5 lbs. (2.0 kg)                  Conduit Connector Size: 3/4" compression connector. 1/4" cord grip for relay/beeper model leads</p>
--

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.