

# Service Entrance Supperssor(DF), 480kA, 240/480 V, 3Ph $\Delta$ 4W+G Dist System

## Data Solutions

### CATALOG NUMBER

**SES480DF240480D**



The nVent ERICO SES480 DF Series of Surge Protective Devices (SPD) is an enhanced version of our nVent ERICO SES480 DB Series. The robust SES480 DF Surge-Filter features a 480 kA per phase surge rating, increasing both survivability and overall life cycle. With the addition of a filter, bothersome high frequency transients on the power distribution system are attenuated, ultimately protecting sensitive equipment. The DF Series is a cUL 1449 Listed SPD for Type 2 locations. Typical applications for the nVent ERICO SES480 DF Series service entrances, distribution, branch panels, MCC, lighting panels, HVAC, A/V systems, IT equipment and more.

### CERTIFICATIONS



### FEATURES

Front-facing design eases installation and performance monitoring

480 kA 8/20  $\mu$ s maximum surge rating per phase

Up to 64 dB attenuation (10 kHz to 100 MHz)

Advanced monitoring includes Surge and TOV Counters with time and date stamping

Rotatable, full color graphics-based LCD utilizing a PIC Micro Controller

Repetitive impulse tested to 10,000 strikes per mode

Rotary Disconnect included, standard for safe servicing

10-year limited warranty

## PRODUCT ATTRIBUTES

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Nominal System Voltage (Un): 240/480 V

Max Continuous Operating Voltage (Uc): 350/550 V

Distribution System: 3Ph $\Delta$  4W+G

Filtering: -64 dB from 10 kHz to 100 MHz

Frequency: 0 – 600Hz

Short Circuit Current Rating (SCCR): 200kA

Voltage Protection Rating (VPR), L-G: 1800V; 1800V

Voltage Protection Rating (VPR), L-L: 2000V; 2500V

Voltage Protection Rating (VPR), L-N: 1200V; 1800V

Voltage Protection Rating (VPR), N-G: 1200V

Nominal Discharge Current (In), Per Mode: 20kA 8/20  $\mu$ s

Max Discharge Current (Imax), Per Phase: 480kA 8/20  $\mu$ s

Status Indication: 2 Tri Color LEDs per phase; Audible alarm with silence switch; Graphics-based LCD with Resettable Surge and TOV Counter with Time / Date Stamp

Remote Contact Switching Capacity: 5.0 A @ 240 V

Remote Contacts: Yes

Temperature: -35 to 75°C

Enclosure Material: Metal

Enclosure Rating: NEMA®-4; UL® 50E Type 4

Mounting: Flange Mount

Certification Details: CSA C22.2 No. 269.1; UL® 1449 Edition 5 Type 2, 20 kA Mode; UL® 1283 Edition 7

Complies With: ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C; ANSI®/IEEE® C62.41.1-2002 Cat A, Cat B, Cat C; ANSI®/IEEE® C62.45-2002 Cat A, Cat B, Cat C; UL® 96A and NEC® Article 285

Depth: 335.026mm

Height: 426.466mm

Width: 183.642mm

Unit Weight: 8.255kg

Impulse Life: 10,000 Impulses at 10 kA 8/20  $\mu$ s

## WARNING

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nVent products shall be installed and used only as indicated in nVent's product instruction sheets and training materials. Instruction sheets are available at [www.nvent.com](http://www.nvent.com) and from your nVent customer service representative. Improper installation, misuse, misapplication or other failure to completely follow nVent's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death and/or void your warranty.



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