CRITEC® SURGE REDUCTION FILTERS
DIN Rail

Features

• Incorporate TSG and TD Technologies – high performance protection, ideal for exposed critical service entrance applications

• Dramatically reduce let-through voltages and rate-of-voltage rise (dv/dt) and help provide optimum protection for electronic equipment

• Mount components directly to DIN rail. The filter can be supplied without the enclosure for direct incorporation into a panel board

• Provide status indication of all surge diversion elements facilitating easy determination of filter health, and are field replaceable if required

• Five year limited warranty

No need to purchase a short-lived device to get maximum protection for your critical equipment. The robust TSG handles high surge energies, and the True L-C filter and Transient Discriminating Technology stages reduce let-through voltages, providing both features at an affordable price.

Surges and voltage transients are a major cause of expensive electronic equipment failure and business disruption. Damage may result in the loss of capital outlays, such as computers and communications equipment, as well as consequential loss of revenue and profits due to unscheduled system downtime.

The DIN Rail series of Surge Reduction Filters offers an economic alternative to the premium TSG-SRF Surge Reduction Filter series. They utilize the same Triggered Spark Gaps to provide high energy primary surge diversion, but include a more compact filter section. The secondary surge diversion elements are based on the well received modular technology of the TDS150 that allows individual modules to be easily replaced in the field, if required.

The DIN Rail series of Surge Reduction Filters find their application where the benefits of the TSG-SRF filters are required, but economic considerations dictate a different solution.

The simple construction provides for easy field service.
### CRITEC® SURGE REDUCTION FILTERS

#### DIN Rail

**Single Phase Model (cover removed)**

![Schematic Diagram (3 Phase unit)](image)

**Model** | SRF163DR | SRF163DRE | SRF363DR | SRF363DRE | DFM63A
---|---|---|---|---|---
Max. Cont. Operating Voltage $U_{c}$ | 275 V~ | 275/476 V~ | 275 V~ | 275/476 V~ | 275 V~
Stand-off Voltage | 440 V~ | 440/760 V~ | 440 V~ | 440/760 V~ | 440 V~
Frequency | 50/60 Hz | 50/60 Hz | 50/60 Hz | 50/60 Hz | 50/60 Hz
Maximum Line Current $I_l$ | 63A - Unit must be provided with external overcurrent protection of 63A or less | 63A - Unit must be provided with external overcurrent protection of 63A or less | 63A - Unit must be provided with external overcurrent protection of 63A or less | 63A - Unit must be provided with external overcurrent protection of 63A or less | 63A - Unit must be provided with external overcurrent protection of 63A or less
Max. Discharge Current $I_{\text{max}}$ | 130kA 8/20μs (NEMA®-LS1 per mode) | 130kA 8/20μs (NEMA®-LS1 per mode) | 130kA 8/20μs (NEMA®-LS1 per mode) | 130kA 8/20μs (NEMA®-LS1 per mode) | 130kA 8/20μs (NEMA®-LS1 per mode)
Protection Modes | All modes protected, via L-N and N-E | All modes protected, via L-N and N-E | All modes protected, via L-N and N-E | All modes protected, via L-N and N-E | All modes protected, via L-N and N-E
Technology Used | Triggered Spark Gap (L-N), Spark Gap (N-G) | Triggered Spark Gap (L-N), Spark Gap (N-G) | Triggered Spark Gap (L-N), Spark Gap (N-G) | Triggered Spark Gap (L-N), Spark Gap (N-G) | Triggered Spark Gap (L-N), Spark Gap (N-G)
Voltage Protection Level $U_p$@ Cat B3, 3kA 8/20μs | L-N 650V | L-N 650V | L-N 650V | L-N 650V | L-N 650V
@ 10kA 8/20μs | 550V | 550V | 550V | 550V | 550V
@ 20kA 8/20μs | 450V | 450V | 450V | 450V | 450V
Status Indication | Primary Protection - LED | Primary Protection - LED | Primary Protection - LED | Primary Protection - LED | Primary Protection - LED
Change-over contact rating (Form C dry) | 250V~/0.5A, max 1.5 mm² (#14AWG) connecting wire | 250V~/0.5A, max 1.5 mm² (#14AWG) connecting wire | 250V~/0.5A, max 1.5 mm² (#14AWG) connecting wire | 250V~/0.5A, max 1.5 mm² (#14AWG) connecting wire | 250V~/0.5A, max 1.5 mm² (#14AWG) connecting wire
Dimensions (H x W x D) mm | 170 rail length 320 x 205 x 110 | 460 rail length 320 x 495 x 110 | 70 x 90 x 90 | 70 x 90 x 90 | 70 x 90 x 90
Weight (kg) | 2 | 7 | 9 | 0.6 | 0.6
Enclosure | None Metal, IP 20 | None Metal, IP 20 | None Metal, IP 20 | None Metal, IP 20 | Plastic, IP 20
Heat Dissipation @ $I_l$ | < 12 W | < 36 W | < 12 W | < 36 W | < 12 W
Connection | ≤35 mm² (#2AWG) solid | ≤35 mm² (#2AWG) solid | ≤35 mm² (#2AWG) solid | ≤35 mm² (#2AWG) solid | ≤35 mm² (#2AWG) solid
Temperature | ≤25 mm² (#4AWG) stranded | ≤25 mm² (#4AWG) stranded | ≤25 mm² (#4AWG) stranded | ≤25 mm² (#4AWG) stranded | ≤25 mm² (#4AWG) stranded
Humidity | 0°C to +65°C (32°F to +149°F) | 0°C to +65°C (32°F to +149°F) | 0°C to +65°C (32°F to +149°F) | 0°C to +65°C (32°F to +149°F) | 0°C to +65°C (32°F to +149°F)
Warranty | 5 years | 5 years | 5 years | 5 years | 5 years
Approvals | IEC® 60950, C-Tick, AS/NZS 3100 | IEC® 60950, C-Tick, AS/NZS 3100 | IEC® 60950, C-Tick, AS/NZS 3100 | IEC® 60950, C-Tick, AS/NZS 3100 | IEC® 60950, C-Tick, AS/NZS 3100

**WARNING**
ERICO products shall be installed and used only as indicated in ERICO’s product instruction sheets and training materials. Instruction sheets are available at www.erico.com and from your ERICO customer service representative. Improper installation, misuse, misapplication or other failure to completely follow ERICO’s instructions and warnings may cause product malfunction, property damage, serious bodily injury and death.

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