

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

**Robust &
Affordable**



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.

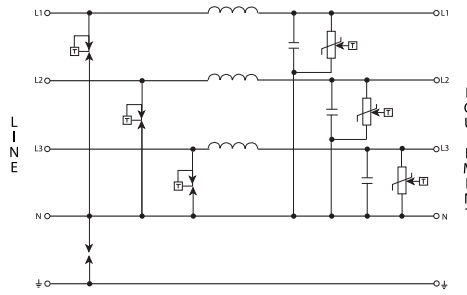


DFM63A filter module





Single Phase Model (cover removed)



Schematic Diagram (3 Phase unit)

Model	SRF163DR	SRF163DRE	SRF363DR	SRF363DRE	DFM63A
Nominal Voltage U_n	220-240 V~		220-240/380-415 V~		220-240 V~
Max. Cont. Operating Voltage U_c	275 V~		275/476 V~		275 V~
Stand-off Voltage	440 V~		440/760 V~		440 V~
Frequency	50/60 Hz				
Distribution System	1Ph 2W+G. TN-C, -S, C-S, TT		3Ph Y 4W+G. TN-C, -S, C-S, TT		
Maximum Line Current I_L	63A - Unit must be provided with external overcurrent protection of 63A or less				
Max. Discharge Current I_{max}	130kA 8/20 μ s (NEMA®-LS1 per mode)				
Impulse Current I_{imp}	50kA 10/350 μ s L-N, 12.5kA 10/350 μ s N-G				
Protection Modes	All modes protected, via L-N and N-E				
Technology Used	Triggered Spark Gap (L-N), Spark Gap (N-G) In-line series true L-C low pass filter 50kA 8/20 μ s tertiary TD Technology, thermally protected, MOV protection				In-line series true L-C low pass filter
Voltage Protection Level U_p @ Cat B3, 3kA 8/20 μ s @ 10kA 8/20 μ s @ 20kA 8/20 μ s	L-N 650V 550V 450V				
Status Indication	Primary Protection - LED Tertiary Protection - Visual mechanical flag, with alarm contacts. Change-over contact rating (Form C dry) 250V~/0.5A, max 1.5 mm ² (#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
Weight (kg)	2	3.2	7	9	0.6
Enclosure	None	Metal, IP 20	None	Metal, IP 20	Plastic, IP 20
Heat Dissipation @ I_L	< 12 W		< 36 W		< 12 W
Connection	≤ 35 mm ² (#2AWG) solid ≤ 25 mm ² (#4AWG) stranded				
Temperature	0°C to +65°C (32°F to +149°F)				
Humidity	0% to 95% non-condensing				
Warranty	5 years				
Approvals	IEC sm 60950, C-Tick, AS/NZS 3100				
Surge Rated to Meet	ANSI®/IEEE® C62.41.2 Cat A, Cat B, Cat C ANSI/IEEE C62.41.2 Scenario II, Exposure 3, 100kA 8/20 μ s, 10kA 10/350 μ s				

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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