DRF20



Compact DIN-mount surge filters, 20A

The DRF series are compact power surge filters designed to protect power distribution systems from externally-induced surges. Models are available for 240VAC and 120VAC. The units are constructed in a DIN 43880-compatible enclosure, allowing DIN-rail mounting in standard DIN switchboards as well as on DIN-rails within location cases and equipment. The units may also be surface-mounted, using 2 screws, by extending the DIN-rail clips outward.

The primary surge rating is for an In of 10kA, with an Imax rating of 25kA. The aggregate rating (for comparison) is 43kA. Series filtering reduces let-through voltage and secondary surge currents to Category A levels suitable for most equipment.

Indicators show that power is applied to the unit, and that a protection fault exists. The unit contains a fault relay (normally-operated) that signals power failure and/or surge failure via isolated contacts. Wire connection is via touchproof screw terminals accepting up to 6mm² cable for power connections and 1.5mm² for alarm relay connections.



FEATURES

- 3 –stage transient protector
- Isolated monitoring contacts
- Power indicator (Green)
- Fault indicator (Red)
- Inbuilt 12dB/octave filter to reduce surges and remove line noise
- Simple installation
- Easily replaceable DIN-rail or surface mounting

Options

6A current rating (DRF6 series) 120VAC, 240VAC models for AC protection

Applications

Mains supply protection (secondary) Protection of DC distribution systems

ORDERING DETAILS

10138 20A 120VAC # 10139 20A 240VAC

DRF20



Electrical Specifications

MODEL	DRF20-120/240
Number of ports	2
Method of mounting	DIN-rail or surface-mount
Wiring connection	Screw terminals - primary (L1/line, L2/neutral, Earth) - secondary (L1/line, L2/neutral)
Maximum continuous voltage – L1/L2	(10138) 150VAC (10139) 280VAC
Primary clamping voltage L1-L2 (L1+-L2-)	10138 – 200V 10139 – 510V
Current rating -continuous	20A RMS or DC
Maximum attenuation	>45dB @ 1MHz
Lowpass filter cutoff (-3dB)	<10kHz
Protection modes	External L1-L2, L1-E, L2 –E Internal L1-L2, L1-E, L2 –E
Service life (L1-L2, L2-E)	10kA x 15 operations @ 8/20us
Maximum surge current 8/20us L1-L2	25kA
Leakage current @ 240V	<500uA
Thermal monitoring	Primary protection components
Alarms/indicators	2-part display, isolated alarm contacts (normally-closed, 250VAC/50VDC/0.5A)
Fault Condition	Contacts change to open condition, 'REPLACE' indicator (red) illuminates.
Location Category	Protected (indoor or location case). Not suitable for outdoor location.
Termination capacity	Screw terminals – power 6mm², alarm 1.5mm²
Enclosure rating	IP20
Cartridge Material	Polycarbonate UL 94 V-O
Standards.	IEC61643-11, AS/NZS 1768, ANSI/IEEE C62.41
Installation instructions	Supplied with unit.
Dimensions	DIN 43880 compatible 71 x 68 x 90mm (W x D X H)
Weight	350g
Environment	-10 to 70°C, 10 to 90%RH (non-condensing)
Warranty	2 years, workmanship and materials