

CRTM150/650

SSI Power Supply Lightning Protection Compact Series



The CRTM150/650 is a compact version of our popular RTM Series surge protection device that provides protection to equipment connected to AC power supplies against the damaging effects of lightning strikes or voltage surges. These devices help reduce the failure rate of Trackside Functional Modules (TFMs) during lightning storms, and therefore can improve Solid State Interlock (SSI) performance and prolong the service life of protected equipment.

They are employed on the incoming power supplies or tail cables, providing protection of the power supplies in the SSI equipment cases and rooms. These highly innovative protection devices provide the ideal protection solution for signals, points, level crossings etc. at each, and in between, every station.

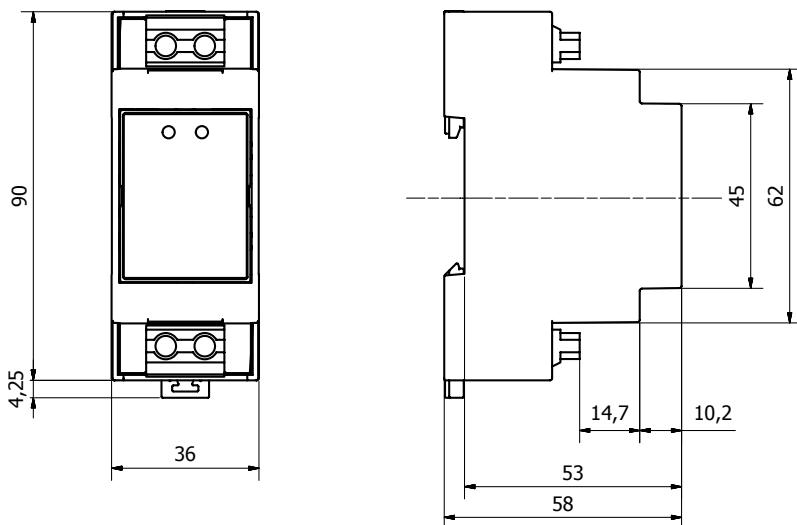
Features:

- Meets the requirements of BS EN 62305 (which replaced BS6651:1999 Annex C in August 2008) and BS EN61643-11/12 – Type II, Class II.
- Protection of equipment connected to AC power supplies against the damaging effects of lightning strikes or voltage surges
- Fitment to 650V SSI AC power supplies in the line side equipment housings
- Two stage (redundant) protection with pre-failure indication.
- DIN Rail mountable.
- Dual thermal and current overload fusing.
- Full protection status indication.
- Compact design.
- Low “let through” voltage.
- Resilient design with long service life.
- Simple installation.

Benefits:

- Service life of protected equipment extended
- Reduces failure rate of TFMs during lightning storms, improves system performance
- Cost of surge protection devices far outweighs safety issues, downtime and equipment replacement.

Dimensions in mm



Revision: vPD4, 21/05/19
Information subject to change without notice.

All of the above information, including drawings, illustrations and graphic designs, reflects our present understanding and is to the best of our knowledge and belief correct and reliable. Users, however, should independently evaluate the suitability of each product for the desired application.

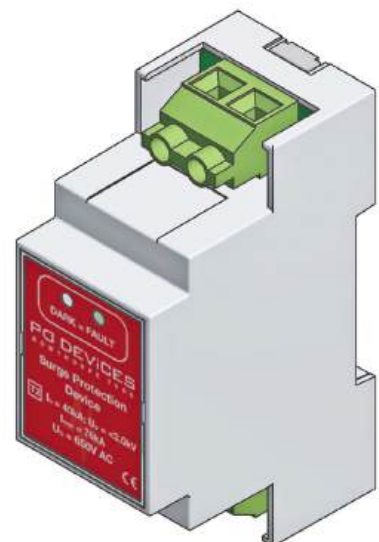


Approvals:

Network Rail Certificate of Acceptance PA05/00602 Issue 7
PADs Cat no: 086/047218

Quality Assurance:

Approved to BS EN ISO9001



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Specification	
Part Code Network Rail Code	CRTM150/650 PADS No: 086/047218
Description	75kA Single Phase 650V MOV Module
Voltage Rating:	650V rms
Operating Voltage Range:	650-800V rms
Maximum Current Rating	Unlimited (Parallel Connection) 25A ('V' Connected)
Maximum Surge Current I_{max} (8/20 μ s):	75kA
Nominal Surge Current, I_n (8/20 μ s):	40kA
Let-through Voltage (Tested at I_n)	<3.0kV
Let-through Voltage (Tested at 6kA 8/20 μ s)	<1.9kV
Terminals:	6mm ² Termination required.
Operating Temperature:	-40°C to +70°C
Light Emitting Diodes:	2 Green - Full Protection 1 Green - Reserve Protection No Green - No Protection, or No Power
Case Material:	Light Grey polycarbonate, UL94 V-0
Type according to BS EN 61643-11	SPD Type II, Class II
Location according to BS EN 62305	LPZ 1 - 2
Dimensions:	95mm L x 36mm W x 58 mm H
Mass	200g
Response Time:	< 10 ns
Torque - Main terminals	0.5 N·m

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