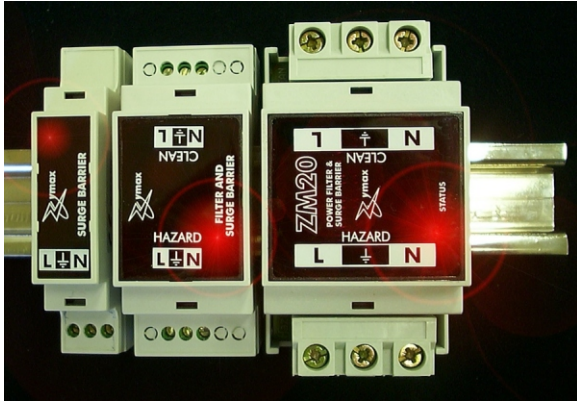


ZM

ZM range Lightning Protector & Surge Suppressor for AC Mains Power Applications



Ideal for protecting AC mains power supplies in Process Control, Fire/Security and IT applications



Although it is well known that Lightning and Industrial noise can seriously affect modern electronic systems, there has been surprisingly little development in the protection technology itself for many years.

The main suppression and energy absorbing component found in the majority of barriers is the Metal Oxide Varistor also known as an MOV. This primary protector is still the only component that offers fast clamping of hazardous voltages, meets the desired specifications and of course is field proven to actually work.

It is well documented however, that the MOV device actually ages and the clamping voltage reduces over a period of time. When this happens, the device starts to conduct on normal AC mains power voltages and self destruction is imminent. This effect is accelerated in high surge areas.

Zymax engineers have designed and patented a new solution to this problem and produced a new generation of surge barriers. There are two fundamental differences that make this product unique.

Firstly the MOV devices are thermally fused, so that in the ultimate and worst case scenario, the product is inherently safe.

Secondly, the actual ageing of the protective devices is continually monitored by a new patent applied for circuit. This ensures maximum integrity for the full life of the product.

MMOV^{RTM} Protection
High Energy
Self Monitoring
Self checks wiring
EMC Filtered Options
Very low let-through
DIN rail mounting
Conforms to BS6651 and EN 61000-4-5

This is a major breakthrough and we call this new approach Monitored MOV or **MMOV^{RTM}** technology to distinguish it from out-moded products.

If the barrier ever reaches the end of its life then the LED will flash and eventually an audible signal is emitted.

There are plenty of options to choose to suit the application including remote annunciation. Also available is the ZMR MMOV reader. The operator can read any Zymax product in the ZM range by simply pointing the reader near to the front panel of the device.

Another additional advantage of this technology includes self testing. When the ZM device is first powered on it will check the earth connection and for live/neutral phase reversal so it will even tell you if the earth isn't connected or has been incorrectly wired!

The barrier has a very high specification and is suitable for protecting AC mains power entry points for process control, fire and security and IT datacomms.

These barriers mount on a standard 35mm DIN rail.

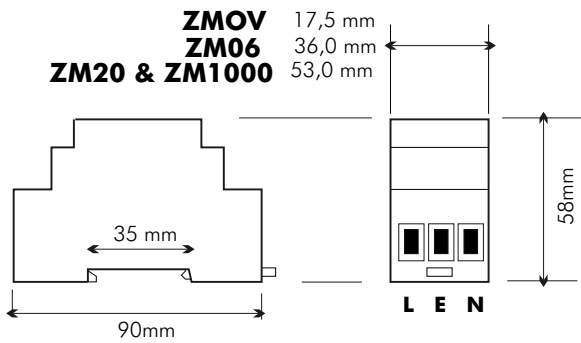
The ZMOV is a high energy shunt barrier for wiring in parallel with the circuit to be protected and the ZM06 incorporates an additional 6A EMC filter for wiring in series with the equipment that needs protecting.

Zymax innovation for industry

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MECHANICAL DETAILS



standard DIN rail mounting 35mm EN50022

top hat rail or use adapter part 541-001 for G Rail

Weight:

ZMOV 30g

ZM06 50g

Operating temperature

-20 deg C to + 60 deg C normal

ORDER CODE

OV Varistor shunt protector
 06 6A max current filter and shunt
 20 20A max current filter and shunt
 1000 High Energy Cat C Shunt

ZM xx y



1 = 110 volts AC

2 = 230 volts AC

e.g. ZMOV-2 is a 230 volt MMOV protector without filtering.

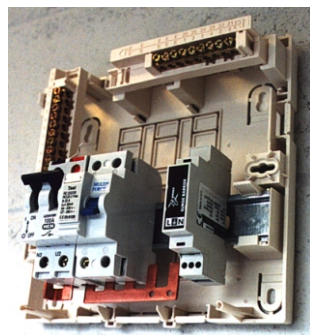
SALES SPECIFICATIONS

Option	ZMOV shunt	ZM06 series	ZM20 series	ZM1000 shunt
Self Test	■	■	■	■
Thermal Fuse	■	■	■	■
Leakage Monitor	■	■	■	■
Load Current	n/a shunt device	6 Amps	20 Amps	n/a shunt device
High Spec Filter		■	■	
Surge Counter				■
Surge Energy	280 Joule	420 Joule	420 Joule	1200 Joule
Surge Current	12 kA	12 kA	12 kA	40 kA
Remote Annctn.				■
Wiring self check	■	■	■	■

MOUNTING



Back of Panel on DIN rail



Consumer Unit



ZMOV and Fuse



ZM06 Clean Supply complete with 6A fuse

WARRANTY 3 years parts and labour on any defective component.

MMOV is a registered trademark of Zymax and the product is Patent Pending

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