

LPS® PM320 Series

SURGE PROTECTIVE DEVICE



**Protect electronic and electrical equipment
against lightning induced surges**



The LPS® PM320-220 and PM320-480 devices are reliable surge protectors designed to protect electronic and electrical equipment. They are ideal for main switchboards and sub-switchboards of commercial, residential and industrial buildings.

Following extensive R&D, these devices have been created to deploy state-of-the-art engineering technology to protect your equipment effectively even in the most lightning prone regions in the world.

LPS® PM320-220 and PM320-480 devices provide 320,000 amps per phase of surge protection with instantaneous response. Thus your equipment is protected from lightning surges caused by direct lightning strikes, electro-magnetic couplings, the switch of power networks as well as from inductive loads.

Metal Oxide Varistors (MOVs) are used to maximise performance and reliability. LPS® PM320-220 and PM320-480 devices are specially designed with thermal cut-out fuse that assist in avoiding fire hazards when dangerous thermal run-away occurs.

These devices are equipped with a LED indicator as well as an audible alarm which provides users with visual and audio monitoring on protection status. Furthermore, they are also armed with a NO/NC dry contact for remote monitoring on protection and power supply status with user-friendly RJ II connector.

How they work

LPS® PM320-220 and PM320-480 devices provide unsurpassed performances in lightning surge protection. When a transient surge occurs, the surge protective devices will switch to a fully conductive state to divert high current. They will then reset automatically to a non-conducting state when voltage falls to normal operational value.

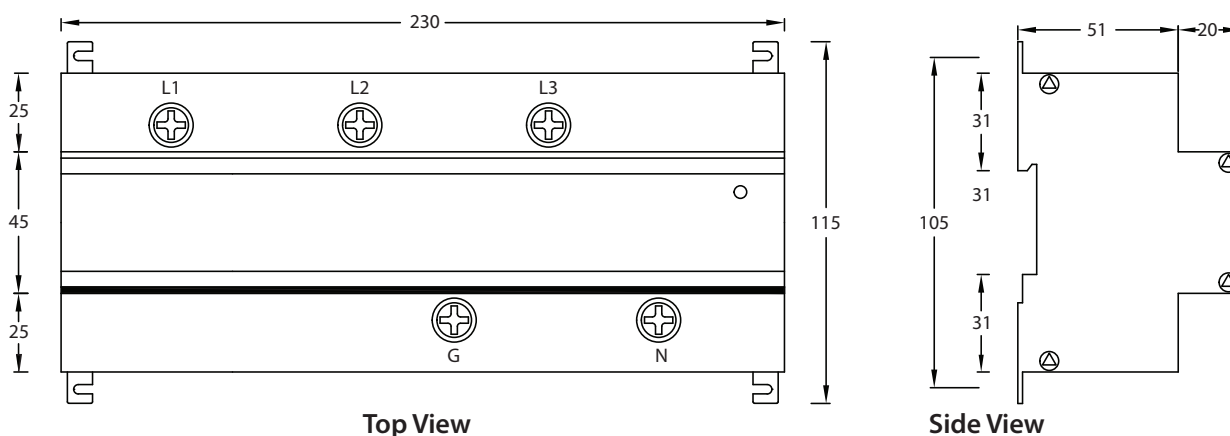
HIGHLIGHTS

- ▶ **They protect main switchboards and sub-switchboards of commercial, residential and industrial buildings**
- ▶ **They are designed with thermal cut-out fuse that assist in avoiding fire hazards when dangerous thermal run-away occurs**
- ▶ **They are housed in a fail-safe IP 20 metal enclosures for maximum safety**

Technical Specifications

Technical Data	PM 320 – 220	PM 320 – 480
Compiled Standard	IEC 61643-11, Class II	
Type of LV System	TN	
Location	Main Switchboard (MSB)	
Number of Ports	1 (Parallel Connection)	
Nominal Voltage U_o	208 VAC (Line – Line)	480 VAC (Line – Line)
Maximum Continuous Operating Voltage U_c	239 VAC (Line – Line)	552 VAC (Line – Line)
Temporary Overvoltage U_T (L – G) – 5s	228 V	528 V
Mode of Protection	L–G	
Voltage Protection Level U_p $\overline{T2}$ @ I_n	750 V (Line – Earth)	1.8 kV (Line – Earth)
Nominal Discharge Current I_n	20 kA	
Maximum Discharge Current I_{max} – Designed	320 kA / phase	
	160 kA / mode	
Total Discharge Current I_{TOTAL}	960 kA	
Residual Current I_{PE}	< 1 mA	
Short-circuit Current Rating I_{SCCR}	25 kA	
Frequency	50 / 60 Hz	
Status Indicator	Visual – LED	
	Remote Monitoring – Dry Contact	
	Audible Alarm	
Degree of Protection	IP 20	
Max. Conductor Size	10 mm ²	
Operating and Storage Temperatures	– 40 °C to 70 °C	
Method of Mounting	Panel Mount	
Rating for External Disconnecter	65A HRC Fuse or Nuisance Tripping Protected RCCB	
Weight	950 g	1.2 kg
Dimensions	230 x 115 x 71 mm	
Warranty	5 years	

Dimensions



All dimensions in millimetres

All the above specifications are subjected to changes without prior notice.
Customised products are available upon request.

Awarded the National Mark of
Malaysian Brand 2015



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