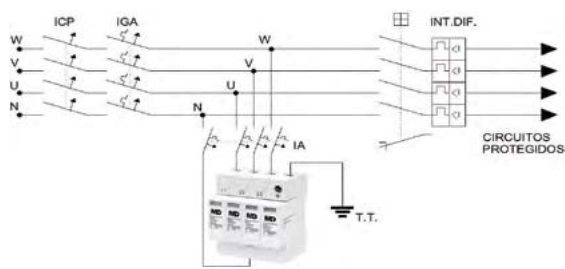


**SURGE PROTECTIVE MODULES IN LOW-VOLTAGE POWER SUPPLY NETWORKS.**

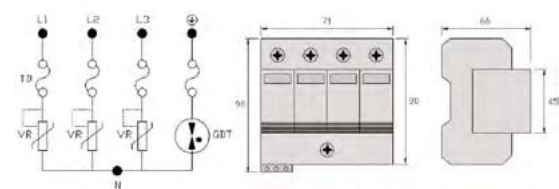
Type 1+2 three-phase surge protective devices are installed in the head-end system of the installation.

They are recommended to protect electric and electronic devices against surges of atmospheric and manoeuvres origin by coordinating Type 1 and Type 2 features.

- Protection Class I+II in accordance with EN 61643-11.
- Protection Type 2 in accordance with IEC 61643-1.
- Easy supervision due to the disconnection device.
- Modular design.
- Fault indication by red flag window.
- Rapid response.
- Optional remote alarm terminal.



Circuit diagram



BD4M-50/240 electrical diagram and dimensions

DEVICE MODEL	BD4M-50/240
Connection mode	Parallel / Three-Phase 3L+N+ET
Rated voltage / Frequency	240 V <sub>L</sub> - 400 V <sub>LL</sub> / 50-60 Hz
Earthing System	TT, IT y TN-S
Thermal disconnection	Internal; green-normal, red-failed
Remote alarm contact	Optional; Cod BD4M-50/240-S
Surge response	
Protection type (EN 61643-11 / IEC 61643-1)	Class I+II / Type 1+2
Maximum continuous operating voltage (U <sub>c</sub> ) AC [L-N/N-TE]	255 V <sub>AC</sub> / 255 V <sub>AC</sub>
Rated discharge current (8/20) I <sub>n</sub> [L-N/N-TE]	20 kA / 20 kA
Maximum discharge current (8/20) I <sub>max</sub> [L-N/N-TE]	50 kA / 50 kA
Lightning impulse current (10/350) I <sub>imp</sub> [L-N/N-TE]	12.5 kA / 50 kA
DC sparkover voltage DC [N-PE]	600 V
Protection level U <sub>p</sub> [L-N]	1,5 kV
Protection level U <sub>p</sub> [N-PE]	1,5 kV
Response time R <sub>t</sub> [L-N/N-PE]	25 ns / 100 ns
Installation data	
Recommended minimum section of connecting cables	Cu 25 mm <sup>2</sup>
Recommended protection	D Curve MCB or fuse (I <sub>n</sub> ≤ 80A)
Enclosure material	Thermoplastic
Installation method	35 mm DIN-rail
Operating temperature	-40 °C ... +80 °C
IP protection degree	IP20
Location category	Indoor
Weight (Kg)	0,6
Dimensions (mm) (HeightxWidthxDepth)	4 DIN modules (90x72x80)