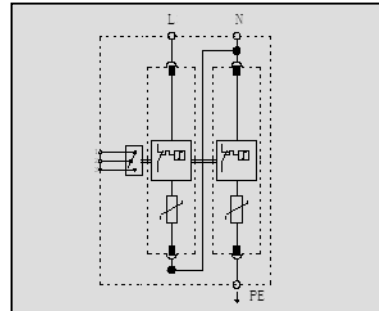
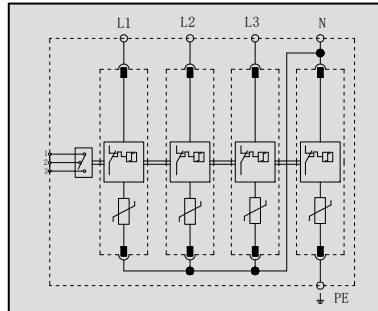


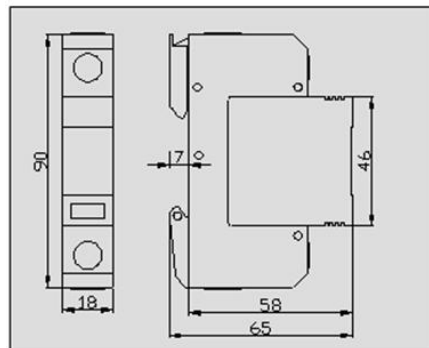
We are professional in manufacturing power surge protector, signal surge protector, antenna-fed surge protector, lightning rod.

Product schematics

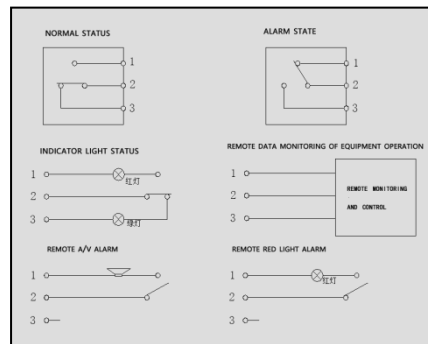


Product dimensions

mm[inch]

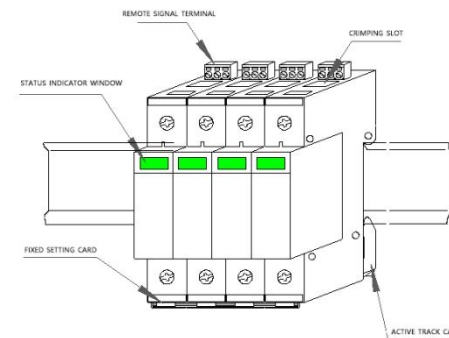


Remote Signal Terminal

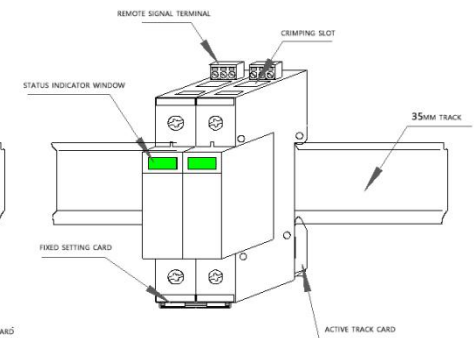


The power supply system ZZM3-20 SPD Product Manual

Before installing or using this product, please read the instruction manual carefully and keep it in a safe place.



Three-phase combination



Single-phase combination

Note: The above is a diagrammatic representation of an SPD, subject to the actual product.

For more technical support

Thank you for your trust and choose our products!
Shanghai Fugo Electric Co., Ltd. is here to provide you with comprehensive technical support and after-sales service. For more technical support and related information, please contact through the followings:



Tel: 021-64757966 021-64838377
Web: [Http://www.spdzz.vip](http://www.spdzz.vip)
Address: 289 Wujin Road, Shanghai

Power System ZZM3-20 Surge Protector Instruction Manual



Do check the surge protector before installation to prevent from unnecessary injury. If the surge protector is with any defects, it shall not be installed.

Do use the surge protectors in accordance with the conditions specified in the technical tables. Exceeding their limits may cause damage to the protector itself or even to equipment.

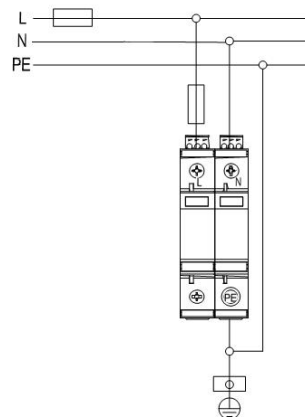
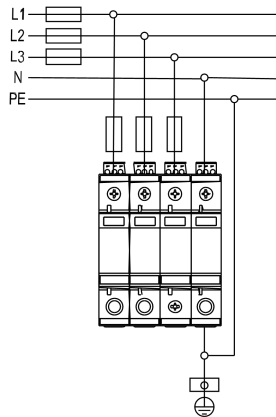


Do follow the relevant standards and rules when installing. This surge protector must be installed by qualified personnel who have obtained the relevant certificate before the electronic equipment to be protected.

Scope of application

ZZM3-20 power surge protector for AC 50Hz (or 60Hz), the distribution system rated voltage 110V / 190V, the power protection can be widely used in power supply systems and factory buildings, mainly installed in the electrical system of the power line of direct lightning, lightning overvoltage and the like which can resist transient over-voltage amplitude, discharge surge energy, thereby protecting the system circuits and devices.

Installation diagram



Technical Parameters

Model	ZZM3-20
Rated operating frequency	50HZ/60HZ
Nominal operating voltage Un	110V
Maximum continuous operating voltage Uc	190V
Nominal discharge current (8/20μS) In	10kA
Maximum discharge current (8/20μS) Imax	20kA
Voltage protection level Up	≤900V
Response time tA	≤25ns
Overheat and overcurrent protection device	Built-in thermal release
Recommended backup circuit breaker	16A
Temperature range	-40℃...+70℃
Installation method	Parallel connection
Wiring specifications (copper wire)	Phase line 6mm ² Ground line 10mm ²
Shell flammability rating	UL94-V0
Dimensions (single module) mm	90×36×65
Installation width	2-4 standard modules
Mounting brackets	35mm electric rail
Degree of protection	IP20

Installation and maintenance

1. ZZM3-20 power surge protectors can be installed in LPZ0B-1 area or directly in the distribution cabinet (switch box).
2. This product has remote communication terminals (dry contact). Normal foot NC 2-3, 1-2 feet normally open; normally closed when the failure of 1-2 feet, 2-3 feet normally open. DC: Un≤125V, In≤3A; AC: Un≤250V, In≤0.5A.
3. Surge protector in parallel with the power line, "L / +" connected to a positive power source line or a power line, "N / -" connected to the power supply neutral or negative line. The front end should be equipped with an over-current protection device such as an air switch or fuse.
4. Surge protector grounding is connected with the shortest possible line. The protective grounding terminal of the grounding employed, i.e., "PE" lightning grounding wire must be connected to ground.
5. Surge protector to protect the line should be kept a safe distance from the line and into the ground, to avoid induction of secondary lines.
6. The surge protector does not require long-term maintenance when it is installed under conditions that do not exceed the requirements, and only requires routine maintenance of the system. As during use, the surge protector green to red indicator window indicates that a window (with remote signal can be indicated) described the surge protector is damaged, repair or replacement.

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