



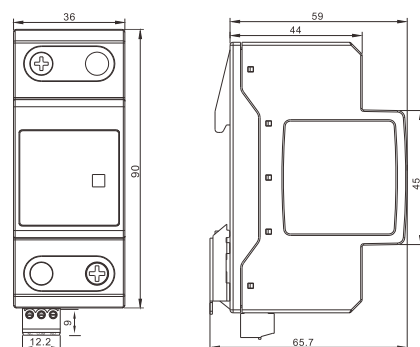
Class II surge protector YSPD-40C-1000-R/1P



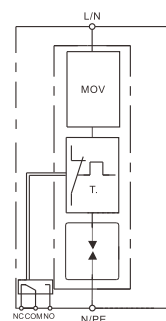
Description

Composite type II/2 level surge protector with high voltage and large current discharge capacity is suitable for a variety of power distribution systems. It is usually installed in lightning protection zones LPZ 0B-3 and subsequent zones, and is mostly used for the protection of wind power converters and generators.

Dimension drawing



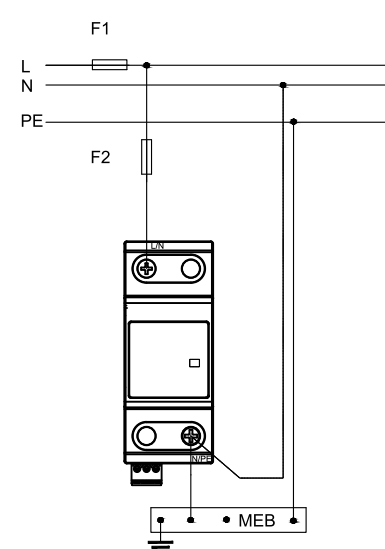
Circuit diagram



Features

- High voltage and high current capability
- No follow-through and no leakage current
- Reliable thermal disconnect
- Fault indication remote signal alarm

Wiring diagram



Electrical

Product model	YSPD-40C-1000-R/1P
SPD according to IEC 61643-11	Class II
SPD according to EN 61643-11	Type 2
SPD according to GB/T 18802.11	Class II
Number of ports	1
Technology	GAP&MOV
Nominal Voltage (U_N)	1000 Vac
Max. continuous operating voltage (U_C)	1000 Vac
Nominal discharge current (8/20 μ s) (I_n)	20 kA
Max. discharge current (8/20 μ s) (I_{max})	40 kA
Follow current extinguishing capability (I_{fi})	Infinite
Voltage protection level (U_P)	4.5 kV
Voltage protection level for 5kA (U_P)	3.5 kV
Response time (t_A)	≤ 100 ns
Max. overcurrent protection	≤ 125 AgL/gG
Short-circuit withstand capability (I_{SCCR})	25 kArms
Temporary overvoltage (TOV) (U_T)	1600 V/5 s, 1400 V/120 min
TOV characteristic	Withstand

Mechanical

Method of mounting	35 mm DIN rail
Enclosure dimensions (HxWxD)	90 mm x 36 mm x 66 mm
Cross-sectional area (max.)	25 mm ² stranded/flexible
Cross-sectional area (min.)	1.5 mm ² stranded/flexible
Stripping length terminals	10 mm
Torque contacts	3 N*m

Indication

Operating status/fault indication	Green / red
Type of Changeover contact	Changeover contact
Switching capacity	Max (125 Vac / 1 A), Min (5 V/1 mA)
Cross-sectional area (max.)	1.5 mm ²
Stripping length for indication terminals	7 mm
Torque contacts for indication terminals	0.2 N*m

Environmental

Location category	Indoor only
Operation temperature range (T_u)	-40 °C...+85 °C
Relative humidity	≤ 95 % (max 40 °C)
Operation altitude	≤ 4 km
Degree of protection	IP 20
Enclosure material	Thermoplastic, UL 94V-0
Product code	911134