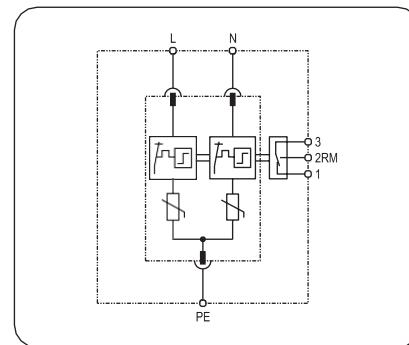


UP-PCM-275-2P-1

Basic circuit diagram:



• Technical data

Type	UP-PCM-275-2P-1
Art.-No.	870 224
Nominal a.c. voltage	U_N 230V~
Rated voltage (max. continuous voltage)	U_c 275V~
Nominal discharge current (8/20)	I_n 20kA
Max. discharge current (8/20)	I_{max} 40kA
Voltage protection level at I_n	U_p $\leq 1.25kV$
Voltage protection level at 5kA	U_p $\leq 1.0kV$
Response time	t_A $\leq 25ns$
Max. back up fuse	125A gL/gG
Operating temperature range	T_u -40°C...+80°C
Cross- section area (L/N)	1.5mm ² ~ 10mm ² solid / flexible
Cross-section area (PE)	6.0mm ² ~ 25mm ² solid / flexible
Mounting on	35mm DIN rail
Enclosure material	Light grey thermoplastic, UL94-V0
Dimension	1 mod
Test standards	IEC 61643-11; EN 64643-11
Certification	CE(LVD, EMC)
Type of remote signalling contact	Switching contact
Switching capacity	U_N/I_N AC:250V/0.5A DC:250V/0.1A,125V/0.2A,75V/0.5A
Cross-sectional area for remote signalling contact	Max. 1.5mm ² solid / flexible

• Product introduction

1. Summary

UP-PCM-275-2P-1 is for installation at LPZ 0_g-1 or higher, protecting low voltage equipment from surge. Applied in modular SPD Class II (Class C) for TN power supply system.

Designed according to IEC 61643-11; EN 61643-11.

3. Application

UP-PCM-275-2P-1 is used in TN system, protecting devices or equipment downstream.

• Installation instruction

According to lightning protection zones concept, for installation at LPZ 0_g-1 or higher. This surge protective device is usually installed in distribution-box or feeder bus of UPS, protecting devices or equipment downstream.

Fuse must be installed at the upstream of the SPD or the lightning arrester to make sure that the protected system has double protection. The value of the fuse used in a SPD system should be conformed to:

1. The value of FUSE should not be larger than the max. withstand capacity of the SPD's backup fuse value.
2. Under the status of the max. current in the power supply & close loop circuit available current, the fuse should be able to disconnect when overloaded or short-circuited.
3. Take 1 & 2 into consideration, the fuse should be as large as possible to allow the maximum surge discharge of SPD.

2. Main character

- Modular SPD for single-phase TN system
- Pluggable module, easy for installation and maintenance
- High discharge capacity, quick response
- Double thermal disconnector device, providing more reliable protection
- Multifunctional terminal for connecting conductors and busbars
- Windows will change red when fault and also provide remote alarm control at the same time

4. Application environment

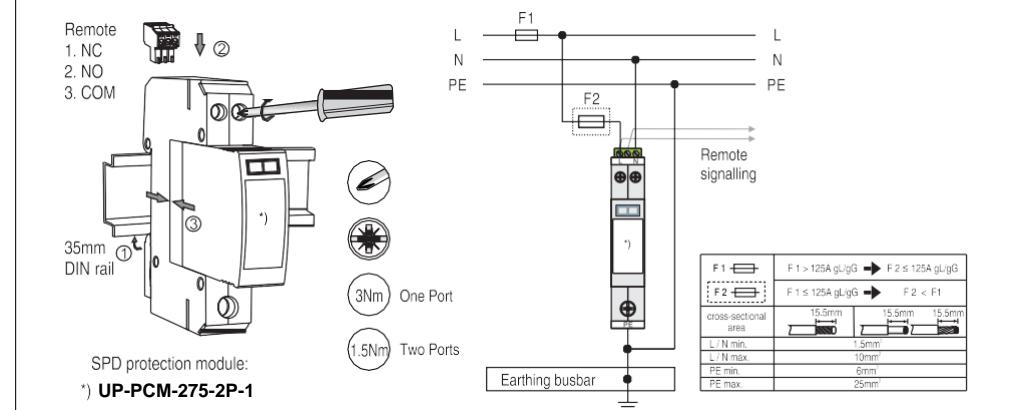
- Temperature: -40°C ~ +80°C
- Relative humidity: $\leq 95\%$ (25°C)

• Installation steps

1. Check the product for integrity of the package; make sure the product window indicates green.
2. Mount the SPD on the 35mm DIN rail.
3. Connect conductors, the cross-section area of cable must be larger than 6mm². The withstand voltage value of cable is not smaller than AC500V; ensure wiring reliable.
4. If need remote alarm, it should be connected signal lines to remote signal terminal 2 and 3 (When normal, 1 and 3 close, 2 and 3 open; when fault, the state is reversed).
5. After above, switch on the power supply and turn on the circuit breaker, if the SPD's window indicates green, this indicates the unit is operating normally.

Regularly inspect the operating status, especially after lightning. Once the fuse upstream breaks, or the SPD's window indicates red, electrician should check/replace the SPD.

Installation diagram:



WARNING:

1. The device must be installed by electrically skilled person, conforming to national standards and safety regulations.
2. It is recommended that installation should be done under power off condition.