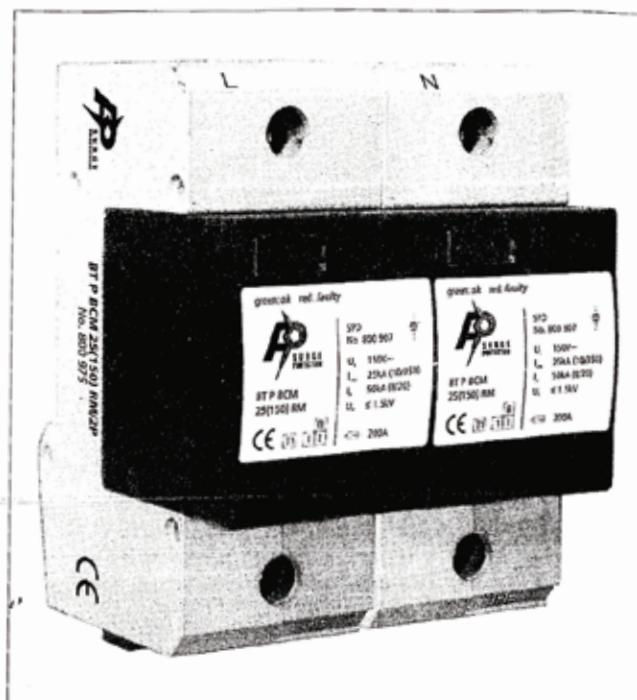




BT P BCM 25(150) RM/2P



• Technical data

Type		BT P BCM 25(150) RM/2P
Art.-No.		800 975
Rated voltage (max. continuous voltage)	U_c	150V~
Lightning impulse current (10/350)	I_{imp}	50kA(L+N-PE)
Lightning impulse current (10/350)	I_{imp}	25kA(L/N-PE)
Nominal discharge current (8/20)	I_n	50kA
Voltage protection level	U_p	$\leq 1.5kV$
Follow current extinguishing capability at U_c	I_f	32A fuse will not be triggered at $2kA_{rms}$
Response time	t_A	$\leq 100ns$
Max. back up fuse (L)		200A gL/gG
Max. back up fuse (L-L')		125A gL/gG
TOV voltage	U_T	355V / 5sec
Operating temperature range (parallel wiring)	T_{up}	-40°C...+80°C
Operating temperature range (through wiring)	T_{us}	-40°C...+60°C
Cross-sectional area		35mm ² solid / 50 mm ² flexible
Mounting on		35mm DIN rail
Enclosure material		Purple (module) / light gray (base) thermoplastic, UL94-V0
Dimension		4mods
Test standards		IEC 61643-11; GB 18802.11; YD/T 1235.1
Certification		CE (LVD, EMC)
Type of remote signalling contact		Switching contact
Switching capacity a.c.		250V/0.5A
Switching capacity d.c.		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

BT P BCM 25(150) RM/2P is for installation at LPZ 0_A-1 or higher, protecting low voltage equipment against lightning and surge damages. Specially designed for TN system ("2-0" circuit), Applied in SPD Class I+II (Class B+C) for various power supply system.
Designed according to GB 18802.11 / IEC 61643-11.

3. Application

BT P BCM 25(150) RM/2P is mainly for installing in indoor or outdoor main power distribution-box to discharge direct lightning current.

• Installation instruction

According to lightning protection zones concept, for installation at LPZ 0_A-1 or higher. It is usually installed in floor distribution-box or Class I main distribution-box..

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

- Single-phase protection for TN system
- Adopted hermetical GDT technology, high follow current extinguishing capability
- Double thermal disconnection devices, provide more reliable protection
- Multifunctional connection for conductors and busbars
- Green window will change to red when fault occurs, also provide remote alarm terminal at the same time

4. Application environment

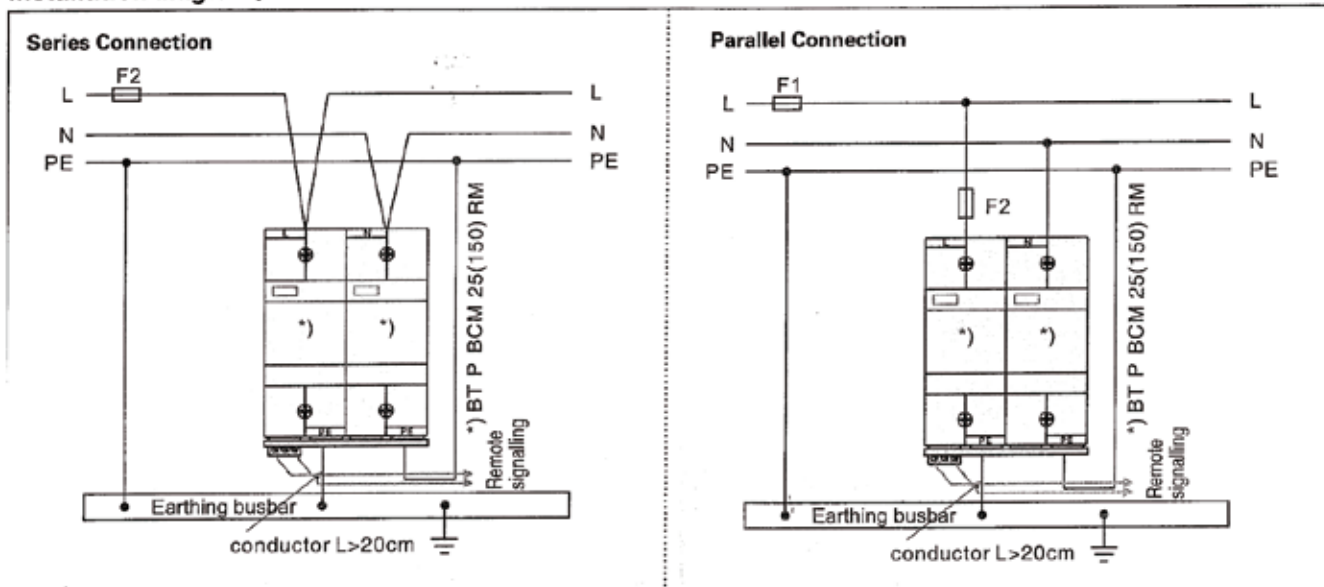
- Temperature: -40°C ~ +80°C
- Relative humidity: ≤ 95% (25°C)

• Installation steps

1. Check the product for integrity of the package; make sure the product window indicates green.
2. Mount the SPD on 35 mm DIN rail.
3. Connect conductors, the cross-sectional area of cable must be larger than 16mm². 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 1 and 2, or 2 and 3 (When normal, 1 and 2 open, 2 and 3 close; 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 does not appear red, 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.