

DHO 80-275(1+0)-FM

Grade II, Type 2
 Location of use: Distribution box
 Power supply system: TN-S,TT,IT
 Nominal Discharge Current (In): 40 kA(8/20μs) T2
 Max. Discharge Current (Imax): 80 kA(8/20μs) T2
 Protective Element: High Energy MOV
 Housing Design: Plug-in module and separate base design
 Housing Material: PA 66 UL 94 V-0
 Certification Marks:



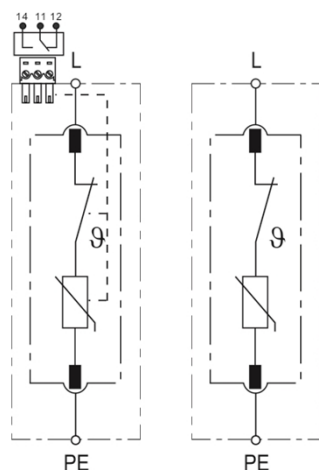
Rated voltage Un	230 V AC
Max. continues operating voltage Uc	275 VAC (L-PE)
Rated operational voltage Uo	220 V AC
Rated operational voltage Ue	230 V AC
Rated frequency f	50/60 Hz
Residual current(PE) I _{PE}	≤ 15 μA
Short-circuit current tolerance	300 A
Current type	AC
Nominal discharge current In (8/20μs)	40 kA T2
Max. discharge current Imax (8/20μs)	80 kA T2
Protection level Up	
L-PE At In impuls current	≤ 1.7 kV
Mounting connection	35mm DIN rail
fine*/-/solid strand	For M5 biconnect terminal blocks
	0.5-25 mm ² / 0.5-35 mm ²
Terminal Screw Torque	2.0 N.m
Test force	≥ 100N
* fine strand wires must furnish with ferrules	
Strip length	14.5mm
PE connection M5 2.0N.m	
Remote warning contact (only -FM case)	single-pole change-over contact plugable MC 1,5/3 ST



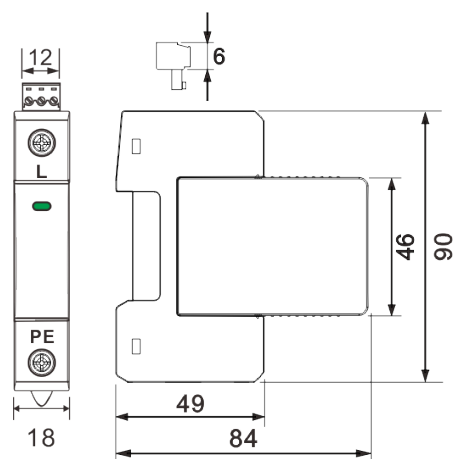
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Fine-/solid strand	1,5/1,5 mm ² / AWG 26-16
Spec/torque/dimension	M2 / 0,25 N.m / 7 mm
Max. operating voltage	250 VAC
Max. operating current	0.75 A AC
Response time tA (L-PE)	≤ 25 ns
Max. required fuse : series wiring/parallel wiring	160 A gL/gG,
Temperature range	-40°C...+85°C (100°C pass)
Type of protection according to IEC 60529	IP20
Clearances and creepage distances according To EN 60664-1:2003	≥ 6mm
Contamination level	2
Overvoltage category	III
Altitude	4000 m
And IEC / EN 61643-11	
Test class EN/IEC	T1/I&T2/ II
Insulating material	
Housing	PA 66
Inflammability class in acc. To UL 94	V0
In accordance to test standards	IEC 61643-11 GB18802.11

Diagram



Dimensions



Direction for Use

- The DC/AC SPD must be installed by an electrically skilled electrician. The installation position can not be directly touched by hands. Installation and connection to service must be done only when the system is de-energized. Check whether the SPD is in good condition, Red light indicates fault and the SPD needs replacement; Green light on in the notice window indicates normal.



Shanghai DHOCEAN Technology Co., Ltd.

202, Building 22, 1288 Luoning Road, Baoshan, Shanghai 200949, P.R. China

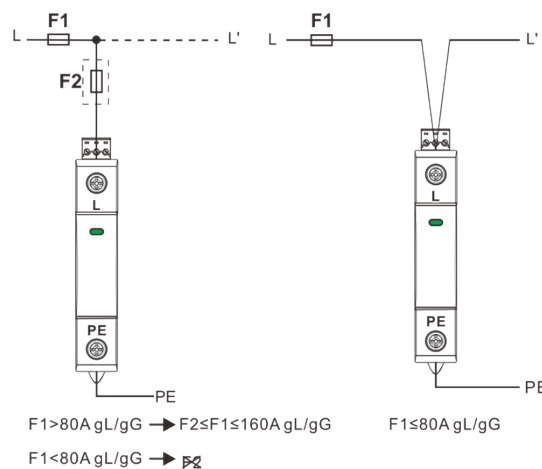
www.dhocean.cn

info@dhocean.cn

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- Install according to the wiring diagram and the installation requirements of SPD in GB 16895.22/IEC 60364-5-53, Grounding Conductor Cross-Sectional Area should not be less than 16mm². Consideration shall be given to limit the total wiring length of conductors between connection points of the SPD assembly to a value not greater than 0.5 m.
- Connection of remote warning contact: The SPD of the power module is equipped with a remote warning contact interface (11-12 is normally closed; 11-14 is normally open), can be used for remote centralized monitoring or alarming.
- After the wiring completed, check whether the module is assembled in place (if yes, 11-12 is closed, and 11-14 is disconnected). If No, re-press the module.

Connection Diagram



Operation and maintenance

- DHO 80-275(1+0)-FM After the power module SPD fails to work, it is automatically separated from the power supply line through the thermal fuse protection system inside the module, the display window changes from "green" to "red", and 11-12 of the remote contact interface is disconnected; 11- 14 is closed. When the deterioration indication window of the SPD power module is "red" or occurs a remote alarm signal, the SPD should be replaced by professionals immediately.
- **After a thunderstorm, check the SPD's display window on the power module.**

Packaging transportation and storage

- **Packaging:** Each SPD power module is packaged independently attached Series User Manual.
- **Transportation:** The product should have a covering during transportation, and should be no violent vibration and impact.
- **Storage:** Product storage temperature during $-40\text{ }^{\circ}\text{C} \sim 85\text{ }^{\circ}\text{C}$, relative humidity 5% ~ 95%. The warehouse is well ventilated, the floor is dry, and there is no corrosive gas. Products with a storage period of more than a year should be re-inspected before they are qualified for use.

