

AC Surge protective device for low-voltage distribution system

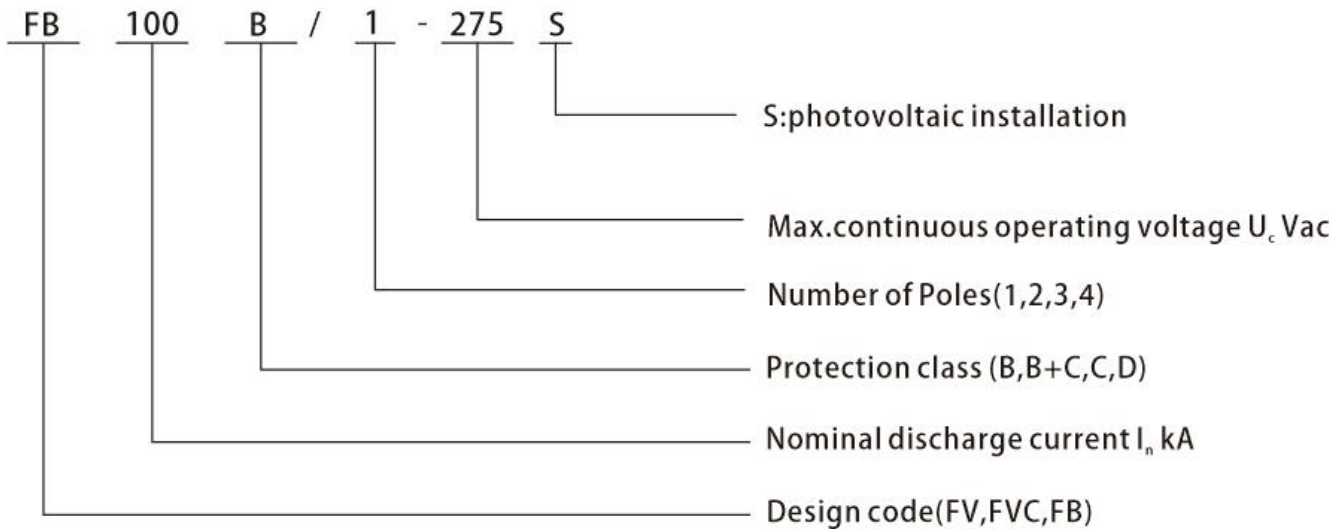
Model No.: FB100B/1-275S

Version:B-3

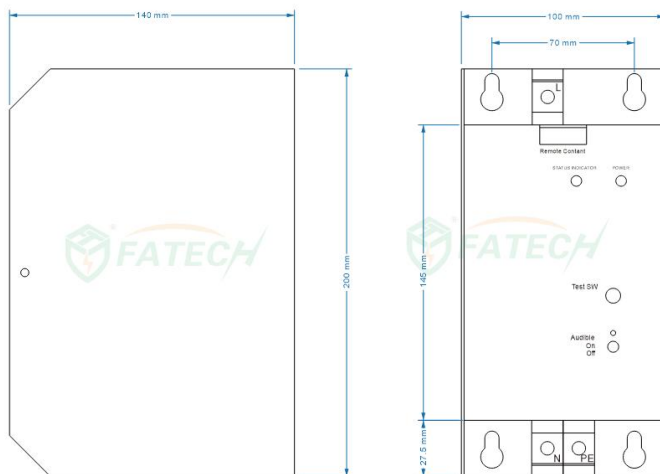


- Type 1 100kA@8/20 μ s single-phase lightning protection box.
- Equipped with over temperature sound and light alarm indication and remote control contacts
- Unique designing, Single Stage High Energy Handling Design Surge suppression module.
- Used in the lightning protection zones concept at boundary LPZ0B-LPZ1.
- The core component is an explosion-proof varistor with high discharge capacitance.
- Low residual voltage.
- Protection mode: L- N, N-PE

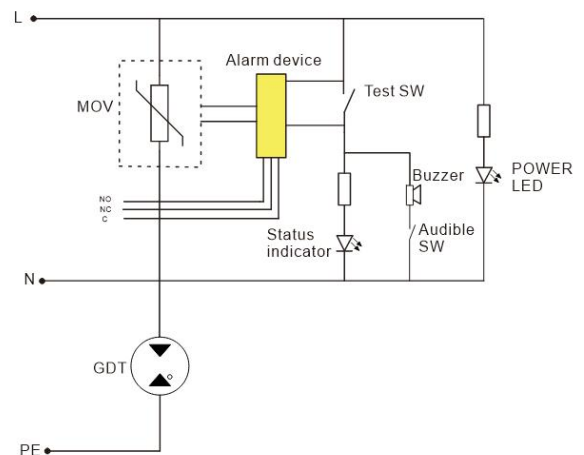
1.Coding



2. Dimension



3. Circuit



FATECH ELECTRONIC (FOSHAN) CO., LTD.

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4. Electrical parameters

Model. No.	FB100B/1-275S	
SPD protection conforms to IEC 61643-11 / EN 61643-11	Type 1	
SPD installation type conforms to IEC 61643-11 / EN 61643-11	Class I	
Protection level conforms to DIN VDE0675-6	B	
Type of Network	TT , TN , IT	
Protection mode	L-N, N-PE	
Nominal Voltage U_N	220 Vac/50(60)Hz	
Maximum continuous operating voltage U_C	275 Vac/50(60)Hz	
Continuous operating current I_C	<50 μ A	
Residual current I_{PE}	$\leq 100 \mu$ A dc $\leq 500 \mu$ A ac	
Standby power consumption P_C	≤ 25 mVA	
Nominal discharge current (8/20 μ s) I_n	50 kA	
Maximum discharge current (8/20 μ s) I_{max}	100 kA	
Impulse discharge current (10/350 μ s) N-PE I_{imp}	50 kA	
Voltage protection level(Cat.C1 6kV 1.2/50 μ S 3KA 8/20 μ S) U_p	<800V	
Voltage protection level(Cat.C3 20kV 1.2/50 μ S 10KA 8/20 μ S) U_p	<1500V	
Voltage protection level (50KA 8/20 μ S) U_p	≤ 3.3 kV	
Isolation resistance R_{isol}	> 100 M Ω	
Response time t_A	L-N	≤ 25 ns
	N-PE	≤ 100 ns
Remote control contact	Volt free,5A 250VAC, NO/NC(option)	
Display	One LED power indicator (green) One LED failure indicator (blue or off)	
Audible Alarm	Provided with shut-off SW	
Test SW	Provided for testing internal operation main display and audible alarm function	
Minimum area of connecting cable	10 mm ²	
Maximum area of connecting cable	25 mm ²	
Installation location	Inside the cabinet	
Module housing	Metal Housing	
Shell spraying	Epoxy powder painter ventilated	
Ambient temperature	0°C ~+60°C	
Altitude	≤ 2000 m (amsl (above mean sea level))	
Permissible humidity	30%~90%	

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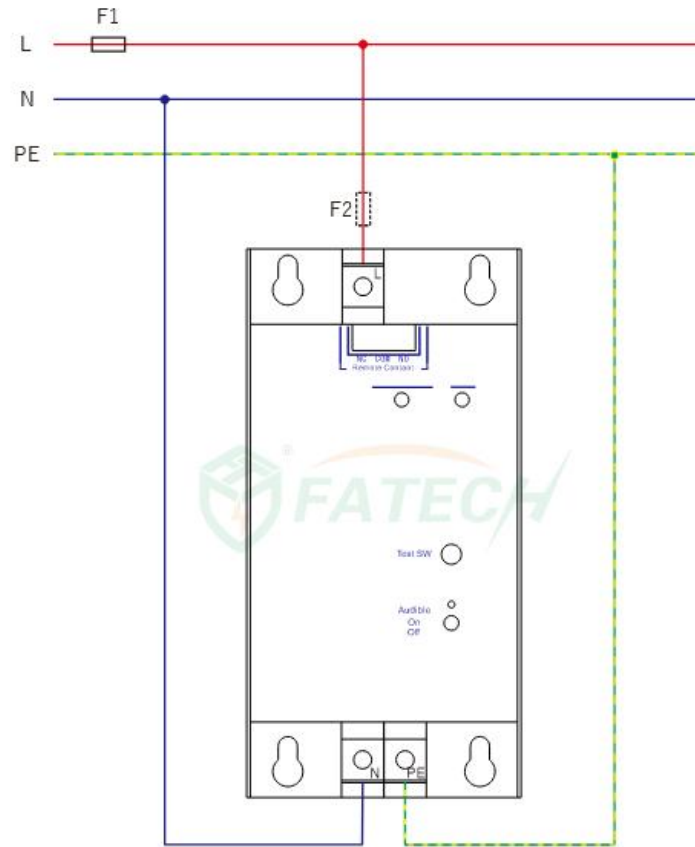
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5. Installation



$F1 > 500\text{AgL/gG} \rightarrow F2 = 500\text{AgL/gG}$
 $F1 \leq 500\text{AgL/gG} \rightarrow \text{Ø}$

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