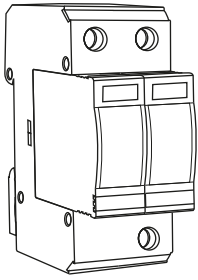
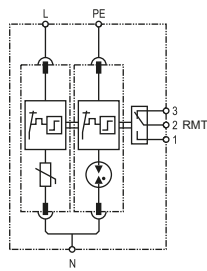


Type 2 - Single Phase Modular SPD



Basic circuit diagram:



• Technical data

Type		Single Phase 275V	Single Phase 320V
Rated voltage (max. continuous voltage)	$\frac{L-N}{N-PE}$ U_c	275V~ 255V~	320V~ 255V~
Nominal discharge current (8/20)	$\frac{L-N}{N-PE}$ I_n	20kA 40kA	20kA 40kA
Max. discharge current (8/20)	$\frac{L-N}{N-PE}$ I_{max}	40kA 65kA	40kA 65kA
Voltage protection level at I_n	$\frac{L-N}{N-PE}$ U_p	$\leq 1.3kV$ $\leq 1.8kV$	$\leq 1.5kV$ $\leq 1.8kV$
Voltage protection level at 5kA	$\frac{L-N}{N-PE}$ U_r	$\leq 1.0kV$	$\leq 1.2kV$
Response time	$\frac{L-N}{N-PE}$ t_d		$\leq 25ns$ $\leq 100ns$
Follow current extinguishing capability at U_c	$\frac{L-N}{N-PE}$ I_c		100A _{max}
Max. circuit protection value	L-N	125A gG/gL Fuse / 125A MCCB	
Operating temperature range	T_U	-40°C...+80°C	
Cross-sectional area		1,5mm ² - 25mm ² solid / 35mm ² flexible	
Mounting on		35mm DIN rail	
Enclosure material		Purple (module) & light gray (base) thermoplastic, UL94-V0	
Dimension		2 mods	
Test standards		IEC 61643-11; GB 18802.1; YD/T 1235.1	
Certification		CE	
Type of remote signalling contact		Switching contact	
Switching capacity	U_p/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	

Dorman Smith Switchgear Ltd, 8 Swinbourne Drive, Braintree, Essex. CM7 2YG UK

• Product introduction

1. Summary

For installation at LPZ 0_s-1 or higher, protecting low voltage equipment from surge. Applied in modular SPD Class II (Class C) for TT and TN power supply system. Designed according to IEC 61643-11; GB 18802.1; YD/T 1235.1.

3. Application

The SPD is applied in three-phase TT and TN systems (1+1 circuit)

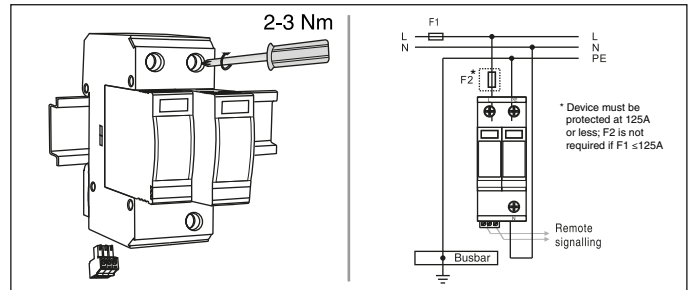
• Installation instruction

According to lightning protection zones concept, for installation at LPZ 0_s-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:

- The value of FUSE should not be larger than the max. withstand capacity of the SPD's backup fuse value.
- 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.
- Take 1 & 2 into consideration, the fuse should be as large as possible to allow the maximum surge discharge of SPD.

Installation Diagram

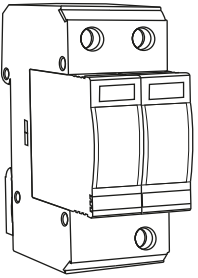


WARNING:

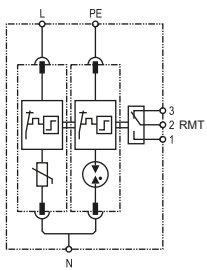
- The device must be installed by electrically skilled person, conforming to national standards and safety regulations.
- It is recommended that installation should be done under power off condition.

419-1-0057 v3 - T2INM12040-1CPN - 090719

Type 2 - Single Phase Modular SPD



Basic circuit diagram:



• Technical data

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Response time	$\frac{L-N}{N-PE}$ t_d		$\leq 25ns$ $\leq 100ns$
Follow current extinguishing capability at U_c	$\frac{L-N}{N-PE}$ I_c		100A _{max}
Max. circuit protection value	L-N	125A gG/gL Fuse / 125A MCCB	
Operating temperature range	T_U	-40°C...+80°C	
Cross-sectional area		1,5mm ² - 25mm ² solid / 35mm ² flexible	
Mounting on		35mm DIN rail	
Enclosure material		Purple (module) & light gray (base) thermoplastic, UL94-V0	
Dimension		2 mods	
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Type of remote signalling contact		Switching contact	
Switching capacity	U_p/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	

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• Product introduction

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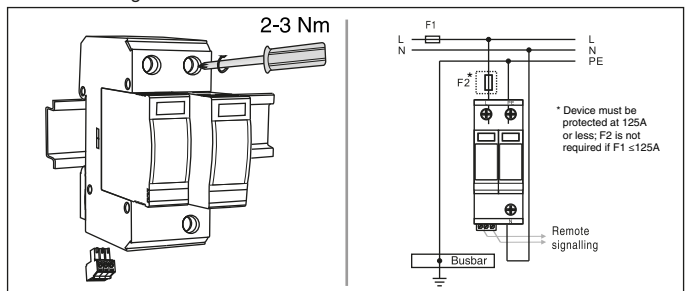
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- Take 1 & 2 into consideration, the fuse should be as large as possible to allow the maximum surge discharge of SPD.

Installation Diagram



WARNING:

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

419-1-0057 v3 - T2INM12040-1CPN - 090719