

Single Pole SPD

Integrated Fuse

DT25/...-4VF-S

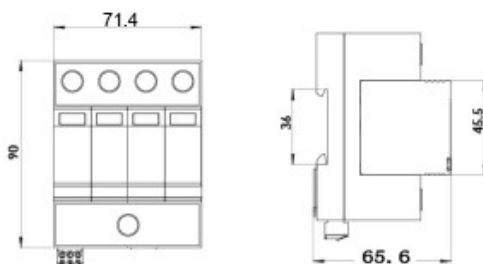


- T2 SPD with built-in fault current protection
- High reliability due to global patented thermally protected with special arc-extinguish device (TPAE technology)
- Surge current discharge capacity up to 25kA 8/20μs
- Pluggable module for easy replacement
- Failure indicators on both MOV and internal fuse & optional for remote signal contact
- 4+0 protection circuit for TN/TT system
- Comply with IEC/EN 61643-11, UL 1449 4th, IEEE C62.41, CSA C22.2

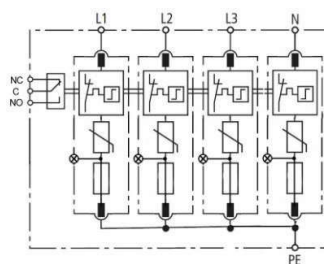


Model		DT25/150-4VF-S	DT25/275-4VF-S	DT25/320-4VF-S	DT25/385-4VF-S
Compliance		EN/IEC 61643-11, UL 1449 4 th			
Category IEC/EN/UL		Class II / T2 / Type 1ca			
Max. Continuous Operating Voltage (AC/DC)	U _c	150V / 200V	275V / 350V	320V / 420V	385V / 505V
Technology		High energy MOV technology TPAE technology (patented) Integrated fuse			
Ports/Protection Mode		1 / L-PE , N-PE			
Nominal Discharge Current (8/20μs)	I _n	15kA			
Max. Discharge Current (8/20μs)	I _{max}	25kA			
Voltage Protection Rating 6kV/3kA UL 1449	VPR	≤0.7kV	≤1.0kV	≤1.2kV	≤1.5kV
Voltage Protection Level @I _n IEC61643	U _p	≤0.8kV	≤1.4kV	≤1.5kV	≤1.8kV
Temporary Overvoltage TOV —Withstand Mode	U _{toV}	174V/5s	335V/5s	335V/5s	403V/5s
Residual Current	I _{PE}	<0.1mA			
Response Time	t _A	≤25ns			
Backup Fuse (only required if not already provided in mains)		If short circuit rating≤3kA, not required; If short circuit rating>3kA, 63A gL/gG			
Environment		Temperature Range: - 40°C ~ +85°C; Humidity: ≤95%; Altitude: ≤2000m			
Cross-Section of Connection Wire		Single-strand 35mm ² ; multi-strand 25mm ²			
Mounting		35mm DIN-rail in accordance with EN 50022/DIN46277-3			
Enclosure Material		thermoplastic; extinguishing degree UL94 V-0			
Degree of Protection		IP20			
Installation Width		4 modules, DIN 43880			
Failure Indication /Status		Internal MOV (green – normal; red – failure); Fuse (LED on-normal, led off-failure)			
Remote Alarm Contact		Yes			
Approvals, certification		CE			
Additional Data for Remote Alarm Contacts					
Remote Alarm Contact Type		Isolated Form C			
Switching Capability U _r /I _n		AC: 250V/0.5A; DC: 250V/0.1A; 125V/0.2A; 75V/0.5A			
Max. Size of Connecting Wire		Max. 1.5mm ² (or # 16AWG)			

■ Dimension Drawing




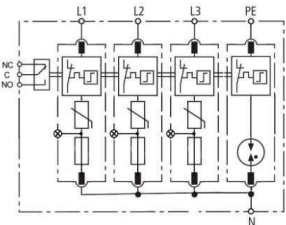
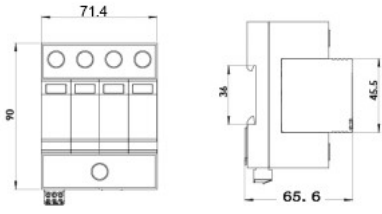

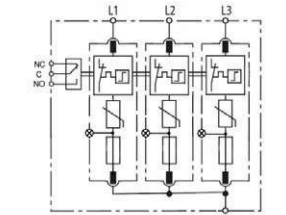
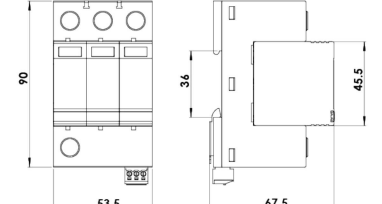

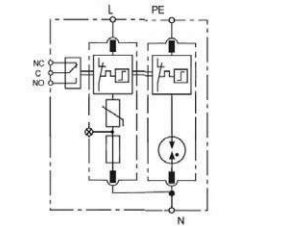
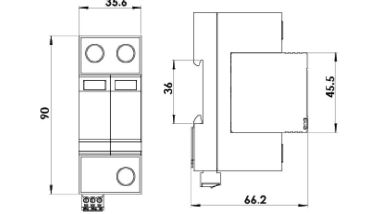
■ Basic Circuit Diagram



T1
T2
T3

Prewired Multi-pole SPD

Part No.	Pole	Power System	Nominal Voltage (phase voltage) U _n	Max. Operating Voltage U _c	Max. Discharge Current (8/20μs) I _{max}	Voltage Protection Level U _p	Diagram
DS25/150-2VF-S	2	Single phase 2W+G	120~127Vac	150Vac	25kA	L/N-G: 0.8kV	4
DS25/275-2VF-S	2	Single phase 2W+G	220~230Vac	275Vac	25kA	L/N-G: 1.4kV	4
DS25/320-2VF-S	2	Single phase 2W+G	240Vac	320Vac	25kA	L/N-G: 1.5kV	4
DS25/385-2VF-S	2	Single phase 2W+G	240~277Vac	385Vac	25kA	L/N-G: 1.8kV	4
DS25/150-(VF+T)-S	2	Single phase 2W+G	120~127Vac	150Vac	25kA	L-N: 0.8kV, N-PE: 1.5kV	3
DS25/275-(VF+T)-S	2	Single phase 2W+G	220~230Vac	275Vac	25kA	L-N: 1.4kV, N-PE: 1.5kV	3
DS25/320-(VF+T)-S	2	Single phase 2W+G	240Vac	320Vac	25kA	L-N: 1.5kV, N-PE: 1.5kV	3
DS25/385-(VF+T)-S	2	Single phase 2W+G	240~277Vac	385Vac	25kA	L-N: 1.8kV, N-PE: 1.5kV	3
DT25/150-3VF-S	3	Three phase 3W+G	120~127Vac	150Vac	25kA	L-G: 0.8kV	2
DT25/275-3VF-S	3	Three phase 3W+G	220~230Vac	275Vac	25kA	L-G: 1.4kV	2
DT25/320-3VF-S	3	Three phase 3W+G	240Vac	320Vac	25kA	L-G: 1.5kV	2
DT25/385-3VF-S	3	Three phase 3W+G	240~277Vac	385Vac	25kA	L-G: 1.8kV	2
DT25/150-(3VF+T)-S	4	Three phase 4W+G	120~127Vac	150Vac	25kA	L-N: 0.8kV, N-PE: 1.5kV	1
DT25/275-(3VF+T)-S	4	Three phase 4W+G	220~230Vac	275Vac	25kA	L-N: 1.4kV, N-PE: 1.5kV	1
DT25/320-(3VF+T)-S	4	Three phase 4W+G	240Vac	320Vac	25kA	L-N: 1.5kV, N-PE: 1.5kV	1
DT25/385-(3VF+T)-S	4	Three phase 4W+G	240~277Vac	385Vac	25kA	L-N: 1.8kV, N-PE: 1.5kV	1

Diagram	Basic Circuit Diagram	Dimension Drawing
<p>1) 3+1</p> 		
<p>2) 3+0</p> 		
<p>3) 1+1</p> 		
<p>4) 2+0</p> 