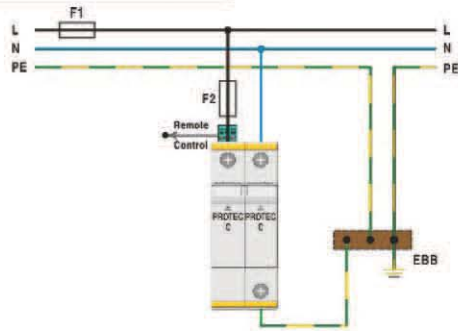


# DVSC275 45 2 TNS

Multi-pole  
Surge Arrester  
 $I_{max} = 45 \text{ kA}$  (8/20)

## TN-S Network (Single-phase)



## Technical data

Type	275
In accordance with	IEC-61643-1
Max. continuous operating voltage (AC/DC)	$U_C$ 275/350V
Nominal discharge current (8/20)	$I_n$ 20kA per pole
Max. discharge current (8/20)	$I_{max}$ 45kA per pole
Protection level	$U_p$ < 1.5kV
Follow current	$I_f$ NO
Response time	$t_A$ < 25ns
Residual current at $U_C$	$I_{pE}$ < 1.5mA
Thermal protection	YES
Terminal screw torque	max. 4.5Nm
Back-up fuse (if mains > 125A)	125A gL
Short-circuit withstand current	25kA / 50Hz
Temperature range	- 40°C .... + 80°C
Terminal cross section	35mm <sup>2</sup> (solid) / 25mm <sup>2</sup> (stranded)
Mounting EN 60715	35mm top-hat rail
Degree of protection	IP 20
Housing material	thermoplastic; extinguishing degree UL 94 V-0
Dimensions DIN 43880	2TE
Weight per unit	244g

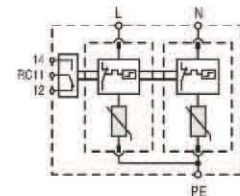
## DVSCR275452TNS (with remote contacts)

Remote contacts	YES
Contact ratings	AC: 250V/0.5A; 125V/3A
Terminal cross section	max. 1.5mm <sup>2</sup>
Remote terminal torque	0.25Nm
Weight per unit	249g

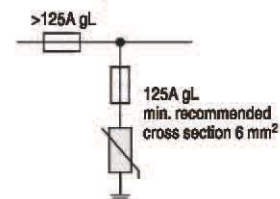
Packaging dimensions (single unit)	109 x 76.5 x 41.5mm
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## Connection diagram

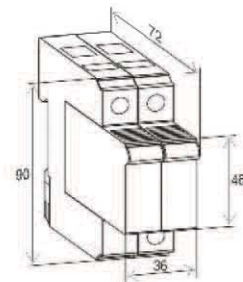
DVSC275 45 2 TNS



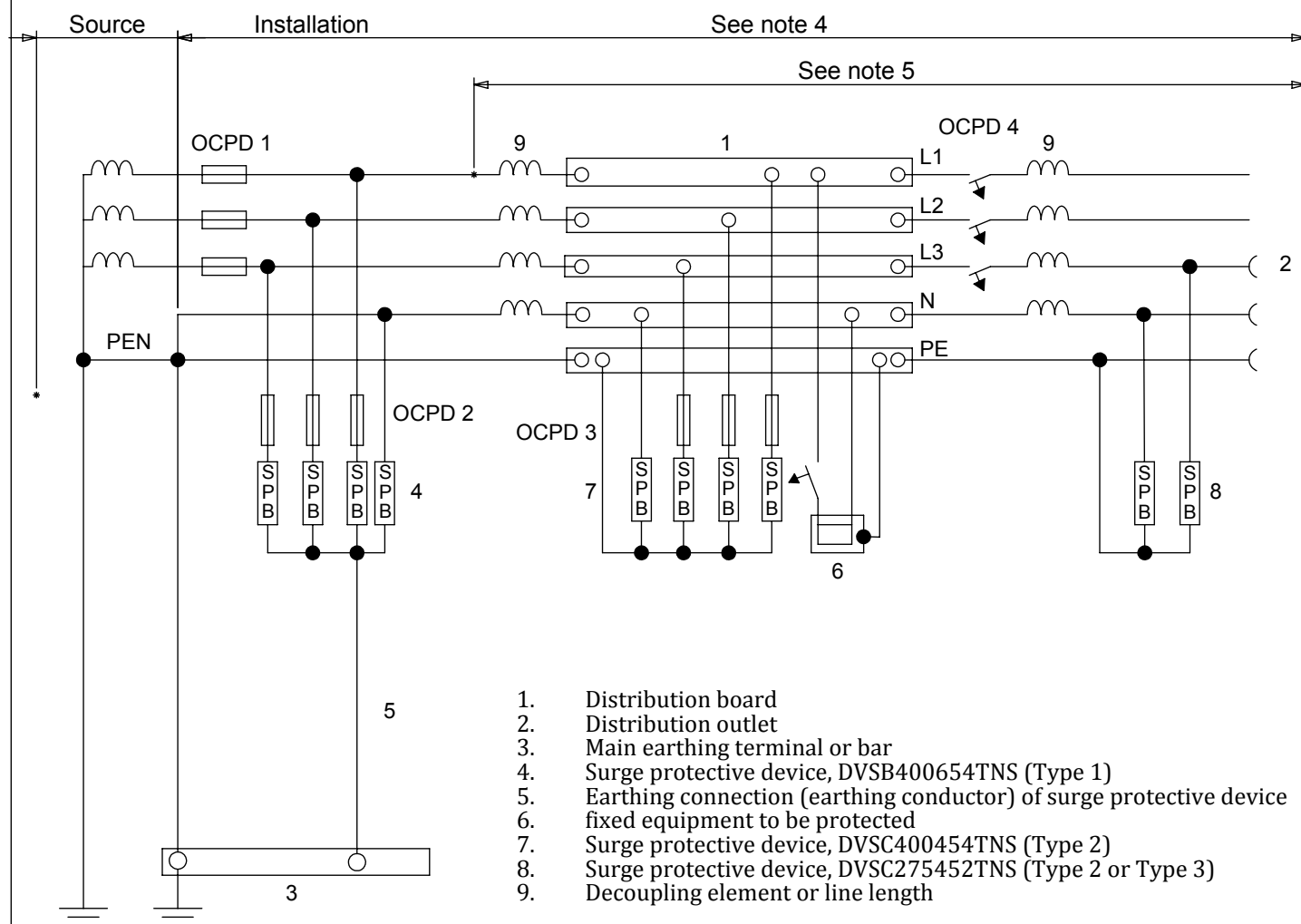
## Selection of back-up fuse



## Dimensions



Installation of types 1, 2 and 3 SPDs for example in TN-C-S systems



NOTE 1: for further information reference should be made to CLC/TS61643-12

NOTE 2: SPDs 4 & 7 (or 7 & 8) can be combined in a single SPD

NOTE 3: SPDs may require additional modes of protection for sensitive equipment

NOTE 4: BS EN 62305-4 covers the protection of electrical and electronic systems within structures against lightning.

NOTE 5: Section 443 of BS 7671 deals with the protection of electrical installations against transient overvoltages of atmospheric origin, transmitted by the supply distribution system and against switching overvoltages generated by the equipment within the installation



Type DVSB400654TNS		
In accordance with		IEC-61643-1
Max. continuous operating Voltage (AC/DC)	$U_c$	320/420V
Nominal discharge current (8/20) $I_n$	$I_n$	20kA per pole
Max. discharge current(8/20)	$I_{max}$	65kA per pole
Impulse current (10/350)	$I_{imp}$	12.5kA per pole
Impulse current (L1+L2+L3+N+PE)	$I_{imp}$	50kA
Specific energy		39kJ/O per pole
Charge		6.25As per pole
Protection level	$U_p$	< 1.5kV
Residual Voltage at $I_{imp}$	$U_{res}$	< 1.2kV
Follow current	$I_f$	NO
Response time	$t_A$	< 25ns
Residual current at $U_c$	$I_{PE}$	< 2.5mA
Thermal protection		Yes
Terminal Screw torque		max. 4.5Nm
Back up fuse (If mains > 125A)		250A gL
Short circuit withstand current		25kA/50Hz
Temperature range		-40°C ....+80°C
Terminal cross section		35mm <sup>2</sup> (solid)/25mm <sup>2</sup> (stranded)
Mounting EN60715		35mm top-hat rail
Degree of protection		IP20
Housing material		thermoplastic; extinguishing degree UL 94 V-0
Dimensions DIN 43880		4TE
Weight per unit		467g
Packaging dimension (single unit)		109x76.5x78mm



Type DVSC400454TNS		
In accordance with		IEC-61643-1
Max. continuous operating Voltage (AC/DC)	$U_c$	320/420V
Nominal discharge current (8/20) $I_n$	$I_n$	20kA per pole
Max. discharge current(8/20)	$I_{max}$	45kA per pole
Protection level	$U_p$	< 1.5kV
Follow current	$I_f$	NO
Response time	$t_A$	< 25ns
Residual current at $U_c$	$I_{PE}$	< 1.5mA
Thermal protection		Yes
Terminal Screw torque		max. 4.5Nm
Back up fuse (If mains > 125A)		125A gL
Short circuit withstand current		25kA/50Hz
Temperature range		-40°C ....+80°C
Terminal cross section		35mm <sup>2</sup> (solid)/25mm <sup>2</sup> (stranded)
Mounting EN60715		35mm top-hat rail
Degree of protection		IP20
Housing material		thermoplastic; extinguishing degree UL 94 V-0
Dimensions DIN 43880		4TE
Weight per unit		456g
Packaging dimension (single unit)		109x76.5x78mm



Type DVSC27545TNS		
In accordance with		IEC-61643-1
Max. continuous operating Voltage (AC/DC)	$U_c$	275/350V
Nominal discharge current (8/20) $I_n$	$I_n$	20kA per pole
Max. discharge current(8/20)	$I_{max}$	45kA per pole
Protection level	$U_p$	< 1.5kV
Follow current	$I_f$	NO
Response time	$t_A$	< 25ns
Residual current at $U_c$	$I_{PE}$	< 1.5mA
Thermal protection		Yes
Terminal Screw torque		max. 4.5Nm
Back up fuse (If mains > 125A)		125A gL
Short circuit withstand current		25kA/50Hz
Temperature range		-40°C ....+80°C
Terminal cross section		35mm <sup>2</sup> (solid)/25mm <sup>2</sup> (stranded)
Mounting EN60715		35mm top-hat rail
Degree of protection		IP20
Housing material		thermoplastic; extinguishing degree UL 94 V-0
Dimensions DIN 43880		2TE
Weight per unit		244g
Packaging dimension (single unit)		109x76.5x41.5mm