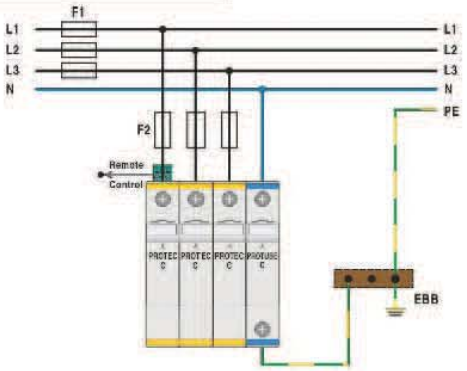
DVSC400 45 4 TT

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

TT Network (Three-phase)

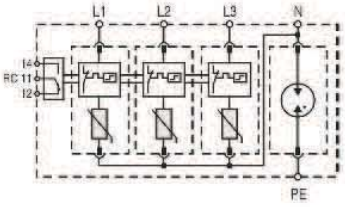


Technical data

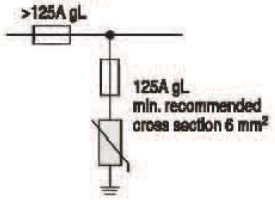
Type			
In accordance with			IEC-61643-1
Max. continuous operating voltage (AC/DC)	U_C		320/420V
Nominal discharge current (8/20)	I_n	(MOV/GDT)	20/20kA
Max. discharge current (8/20)	I_{max}	(MOV/GDT)	45kA
Protection level	U_p	(MOV)	< 1.5kV
	U_p	(GDT)	< 2.0kV
Follow current	I_f	(GDT)	> 100A_{RMS}
Response time	t_A	(MOV/GDT)	< 25ns / 100ns
Residual current at U_C	I_{PE}	(MOV/GDT)	< 1.5mA / -
Thermal protection	(MOV/GDT)		YES
Terminal screw torque			max 4.5Nm
Back-up fuse (if mains > 125 A)	(MOV/GDT)		125A gL / -
Short-circuit withstand current			25kA/50Hz / -
Temperature range			- 40°C ....+80°C
Terminal cross section			35mm² (solid) / 25mm² (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			4TE
Weight per unit			441g
DVSCR400454TT	(with remote contacts)		
Remote contacts			YES
Contact ratings			AC: 250V/0.5A; 125V/3A
Terminal cross section			max. 1.5mm²
Remote terminal torque			0.25Nm
Weight per unit			446g
Packaging dimensions (single unit)			109 x 76.5 x 78mm

Connection diagram

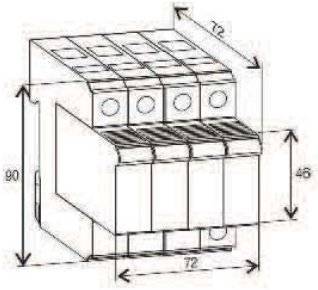
DVSC400454TT



Selection of back-up fuse



Dimensions



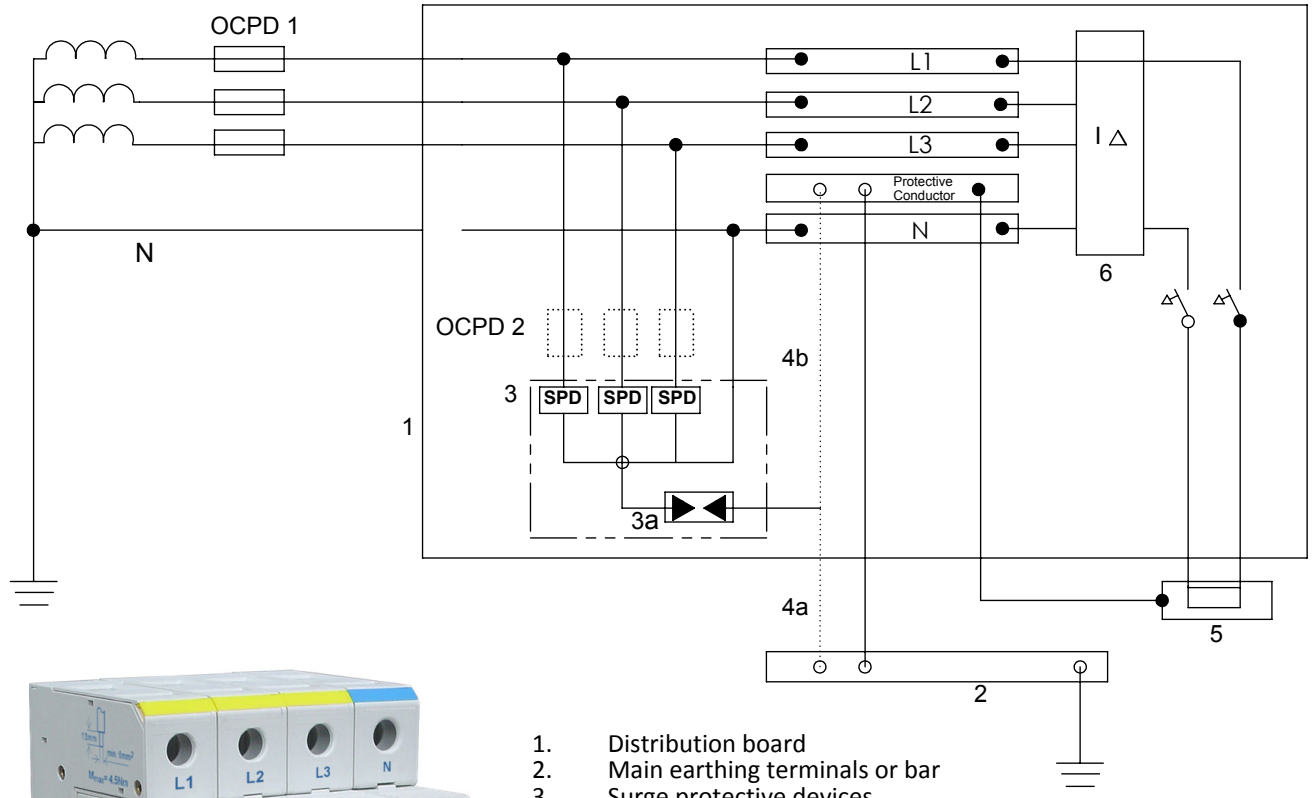
ROXBURGH EMC

ROXBURGH EMC

Tel No. +44(0)1724 273216
email: sales@dem-uk.com
Website www.dem-uk.com
DEM Manufacturing, Deltron Emcon House
Hargreaves Way, Sawcliffe Ind. Park,
Scunthorpe, North Lincolnshire, DN15 8RF, UK

Part No:	DVSC400454TT
ISSUE NUMBER	01

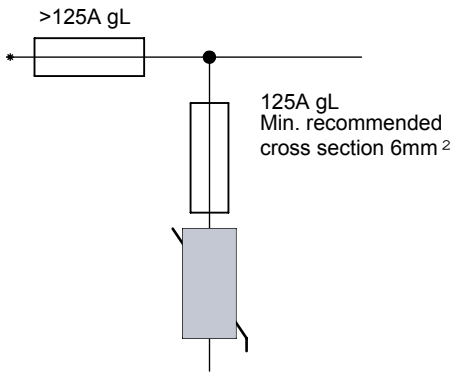
Surge Protection Device recommended for use with TT systems connection type 2 (CT2) SPD connected to the load side of an RCD according to regulation 534.2.5(ii)



3:

1. Distribution board
2. Main earthing terminals or bar
3. Surge protective devices
3a. Surge protective devices (SPDs 3 and 3a in series ensuring a protection level in accordance with overvoltage Category II.
4. Earthing connection of surge protective devices, either 4a or 4b, whichever is the shorter route
5. Current-using equipment
6. Residual current protective device (RCD) installed downstream of the surge protective devices

OCPD 1: Overcurrent protective device at the origin of the installation
OCPD 2: Overcurrent protective device



Type DVSC400454TT			
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	(MOV/GDT)	20/20kA
Max. discharge current(8/20)	I_{max}	(MOV/GDT)	45kA per pole
Protection level	U_p	(MOV)	< 1.5kV
	U_p	(GDT)	< 2.0kV
Follow current	I_f	(GDT)	> 100A_{RMS}
Response time	t_A	(MOV/GDT)	< 25ns/<100ns
Residual current at U_c	I_{PE}	(MOV/GDT)	< 1.5mA/-
Thermal protection		(MOV/GDT)	Yes
Terminal Screw torque			max. 4.5Nm
Back up fuse (If mains > 125A)		(MOV/GDT)	125A gL/-
Short circuit withstand current			25kA/50Hz/-
Temperature range			-40°C ....+80°C
Terminal cross section			35mm^2 (solid)/25mm^2 (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			441g
Packaging dimension (single unit)			109x76.5x78mm

Last Update
10/04/2012
24/04/2012