

surge arrester T1/T2, UC 1050V DC, I_{max} 40 kA Short-circuit strength 80 A, 2+V circuit, for isolated and grounded PV systems



Article number

General data	
Standard	EN 50539-11
Product designation	Surge protection device
SPD classification / acc. to EN 61643-11	
• Test Class I, Type 1	Yes
• Test Class II, Type 2	Yes
• Test Class III, Type 3	No
Number of SPD ports	1
Design of the product	Surge arrester
Design of pole	Other
Designation of the protective paths	(L+)-(L-)
accessories	3 x 5SD7498-3
Mounting type	DIN rail 35 mm
Material / of the enclosure	PA 6.6 / PBT
Size of surge arrester	3WM
Degree of pollution	2
Overvoltage category / acc. to IEC 61010-1	III
Protection class IP / at connection all terminals	IP20

Ambient temperature / during operation	-40 °C ... 80 °C
Ambient temperature / during storage and transport	-40 °C ... 80 °C
Relative humidity / during operation	5 % ... 95 %
Installation altitude / at height above sea level / maximum	2 000 m
Width	53.4 mm
Height	90 mm
Depth	71.5 mm
Net weight	381 g

Electrical data

Type of distribution system	PV
Load current	80 A
Protective conductor current	20 kA DC
Apparent power consumption / maximum	25 mVA
Discharge current	
• at (8/20) μ s	15 kA
• 1 phase / at (8/20) μ s	40 kA
Total discharge current / at (8/20) μ s	40 kA
Lightning current peak value / at (10/350) μ s	5 kA
Short-circuit rating (SCCR) / at 264 V	0.3 kA
Protection level	3.5 kV
• maximum	3.5 kV
• between L and PE	3.5 kV
Residual voltage	
• at rated value of discharge current / maximum	3.5 kV
• at 10 kA maximum	3.2 kV
• at 5 kA maximum	2.9 kV
• at 2 kA / maximum	2.6 kV
Response time	25 ns
Fuse protection type / at V-shaped connection	Not required
Fuse protection type / for T-connector	Not required
MPP voltage	1 050 V

Connections/Terminals

Type of electrical connection	Screw terminal
Wire stripping length	16 mm
Tightening torque	4.3 ... 4.7
Wire stripping length	16 mm
Connectable conductor cross-section	
• for finely stranded conductor	1.5 ... 25
• for rigid conductor	1.5 ... 35
• finely stranded	1.5 ... 25

AWG number / as coded connectable conductor cross section	15 ... 2
Design of the thread / of the connection screw	M5
Signal design	optical

NEMA/UL - Data

Type of distribution system	PV
Combustibility class acc. to UL 94	V0

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/lowvoltage/catalogs>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SD7483-6>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/5SD7483-6>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SD7483-6

CAX-Online-Generator

<http://www.siemens.com/cax>

