



surge arrester T1/T2, UC 1050V DC, I<sub>max</sub> 40 kA Short-circuit strength 80 A, 2+V circuit, for isolated and grounded PV systems

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
Product version	Surge arrester
design of pole	Other
designation of the protective paths	(L+)-(L-)
Accessories	3 x 5SD7498-3
fastening method	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 / minimum permissible ... ambient temperature / during operation / maximum permissible	-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
operating voltage	1 000 V
continuous operating voltage	
• maximum	1 000 V
load current	80 A
protective conductor current	20 kA DC
apparent power consumption / maximum	25 mVA
discharge current	
• at (8/20) μs	15 kA

• 1 phase / at (8/20) $\mu$ s	40 kA
total discharge current / at (8/20) $\mu$ s	40 kA
lightning current peak value / at (10/350) $\mu$ 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
stripped length	16 mm
tightening torque	4.3 ... 4.7
stripped 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](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SD7483-6)



