



Lightning conductor T1/T2, UN 240/400 V, UC 335 V A.C., pluggable protective modules, 3+0 circuit (TN-C), Width 54 mm

General data	
standard	IEC 61643-11: 2011, EN 61643-11: 2012
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	Combination surge arresters
design of pole	3
designation of the protective paths	L-PEN
Accessories	3 x 5SD7418-3
fastening method	DIN rail NS 35
material / of the enclosure	PA 6.6 / PBT
size of surge arrester	3 MW
Degree of pollution	2
overvoltage category / acc. to IEC 61010-1	III
protection class IP / at connection all terminals	IP20
shock acceleration	30 gn
vibrational acceleration / at 5 Hz ... 500 Hz / limited to 2,5 h / per axis	7.5 gn
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	89.9 mm
depth	77.5 mm
net weight	518 g
Electrical data	
type of distribution system	TN-C
operating voltage	240 / 415 V AC
operating voltage	230 V
operating frequency	50/60 Hz
continuous operating voltage	
• maximum	335 V

load current	80 A
protective conductor current	2400 µA (255 V AC)
apparent power consumption / maximum	810 mVA
discharge current	
• at (8/20) µs	12.5 kA
• 1 phase / at (8/20) µs	50 kA
• between L and (PE)N / at (8/20) µs	12.5 kA
• between L and N / at (8/20) µs	50 kA
total discharge current / at (8/20) µs	150 kA
total lightning impulse current / at (10/350) µs	37.5 kA
lightning current peak value / at (10/350) µs	12.5 kA
charge of the flash / at (10/350) µs	6.25 A·s
specific energy of the flash / at (10/350) µs	39
short-circuit rating (SCCR) / at 264 V	25 kA
protection level	1.2 kV
• maximum	1.2 kV
• between N and L	1.6 kV
residual voltage	
• at rated value of discharge current / maximum	1.2 kV
• at 10 kA / maximum	1.1 kV
• at 5 kA / maximum	1 kV
• at 3 kA / maximum	0.9 kV
• Response time	25 ns
adjustable response factor / of tripping current	1.6
fuse protection type / at V-shaped connection	80 A AC (gG)
fuse protection type / for T-connector	160 A AC (gG)

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	TN-C
TOV behavior	
• at TOV test voltage	415 V AC (5 s / withstand mode)
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?mifb=5SD7413-2>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SD7413-2>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mifb=5SD7413-2

