



Surge arrester T2, UN 240/400 V, UC 350/264 V AC, pluggable protective module, 3+1 circuit (TN-S, TT), Width 49.2 mm

General data	
standard	IEC 61643-11: 2011, EN 61643-11: 2012
product designation	Surge protection device
SPD classification / according to EN 61643-11	
• Test Class I, Type 1	No
• 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	3+N/PE
designation of the protective paths	L-N, N-PE
accessories	3 x 5SD7428-1 + 1 x 5SD7428-2
fastening method	DIN rail NS 35
material / of the enclosure	PA 6.6 / PBT
size of surge arrester	2,7 MW
degree of pollution	2
overvoltage category / according 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	5 gn
relative humidity / during operation	5 % ... 95 %
installation altitude / at height above sea level / maximum	2 000 m
width	49.2 mm
height	98 mm
depth	71.5 mm
net weight	394 g
Electrical data	
type of distribution system	TT, TN-S
operating voltage	230 V
continuous operating voltage	
• maximum	350 V
• between N and PE	264 V
• between L and PE	350 V
• between L and (PE)N	350 V
discharge current	
• between L and (PE)N / at (8/20) µs	20 kA
• between L and N / at (8/20) µs	40 kA
• between L and PE / at (8/20) µs	40 kA
• between L and PE / at (8/20) µs	20 kA

<ul style="list-style-type: none"> • between N and PE / at (8/20) μs • between N and PE / at (8/20) μs 	80 kA 40 kA
follow current extinguishing capability	
<ul style="list-style-type: none"> • between N and PE 	100 A (264 V a.c.)
short-circuit rating (SCCR) / at 264 V	25 kA
protection level	
<ul style="list-style-type: none"> • between L and N • between L and PE • between N and PE 	1.5 kV 1.9 kV 1.5 kV
residual voltage	
<ul style="list-style-type: none"> • between L and (PE)N <ul style="list-style-type: none"> — at rated value of discharge current / maximum — at 10 kA / maximum — at 5 kA / maximum — at 4 kA / maximum — at 2 kA / maximum • between N and PE <ul style="list-style-type: none"> — at rated value of discharge current / maximum — at 10 kA / maximum — at 5 kA / maximum — at 4 kA / maximum — at 2 kA / maximum 	1.5 kV 1.3 kV 1.2 kV 1.1 kV 1 kV 0.7 kV 0.7 kV 0.7 kV 0.7 kV 0.7 kV
response value of the surge voltage / at 6 kV / at (1.2/50) μ s	
<ul style="list-style-type: none"> • between N and PE 	1.5 kV
<ul style="list-style-type: none"> • response time / between L and (PE)N • response time / between N and PE 	25 ns 100 ns
adjustable response factor / of tripping current	1.6
fuse protection type / at V-shaped connection	40 A AC (gG)
fuse protection type / for T-connector	315 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	
<ul style="list-style-type: none"> • for finely stranded conductor • for rigid conductor 	2.5 ... 16 2.5 ... 25
AWG number / as coded connectable conductor cross section	12 ... 4
design of the thread / of the connection screw	M5
signal design	Optical, remote signaling contact
Indicator/remote signaling	
switching function / of the remote signaling contacts	PDT contact
operating voltage / of the remote signaling contacts / at AC	5 ... 250
operational current / of the remote signaling contacts / at AC	5 mA ... 1 A
connection type of remote signaling contact	M2
connectable conductor cross-section	
<ul style="list-style-type: none"> • for remote signaling contacts / for rigid conductor • for finely stranded conductor / for remote signaling contacts 	0.14 ... 1.5 0.14 ... 1.5
AWG number / as coded connectable conductor cross section / for remote signaling contacts / minimum	28
AWG number / as coded connectable conductor cross section / for remote signaling contacts / maximum	16
tightening torque / for remote signaling contacts	0.25 N·m
NEMA/UL - Data	
type of distribution system	TT, TN-S
TOV behavior	
<ul style="list-style-type: none"> • at TOV test voltage (L-N) • at TOV test voltage (N-PE) 	415 V AC (5 s / withstand mode) / 457 V AC (120 min / safe failure mode) 1200 V (200 ms / withstand mode)
combustibility class according to UL 94	V0

Further information

Siemens has decided to exit the Russian market (see here).

<https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business>

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

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=5SD7424-3>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SD7424-3>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SD7424-3

CAX-Online-Generator

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

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