

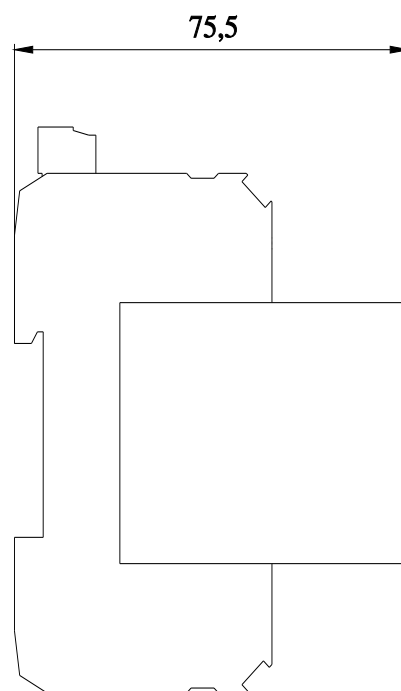
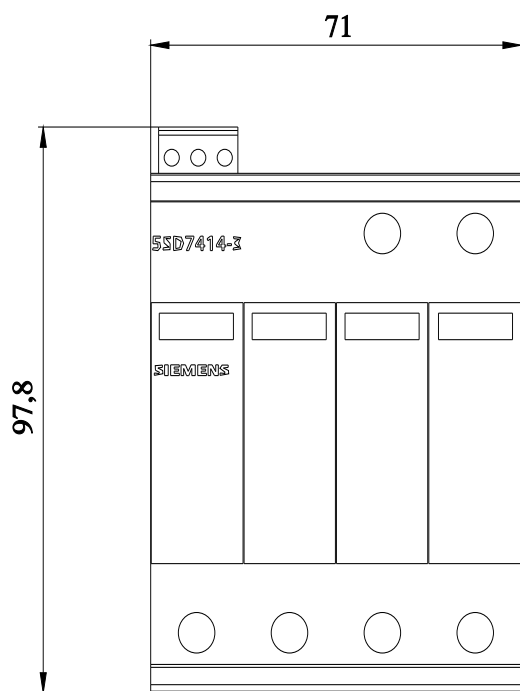


Lightning conductor T1/T2, UN 240/400 V, UC 335/264 V A.C., pluggable protective modules, 3+1 circuit (TN-S, TT), Width 72 mm with remote signaling

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	Yes
• Test Class II, Type 2	Yes
• Test Class III, Type 3	No
number of SPD ports	1
design of the product	Combination surge arresters
design of pole	3+N/PE
designation of the protective paths	L-N, L-PE, N-PE
accessories	3 x 5SD7418-3 + 1 x 5SD7418-2
fastening method	DIN rail NS 35
material / of the enclosure	PA 6.6 / PBT
size of surge arrester	4 TE
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	7.5 gn
relative humidity / during operation	5 ... 95 %
installation altitude / at height above sea level / maximum	2 000 m
width	71.2 mm
height	98.7 mm
depth	77.5 mm
net weight	641 g
Electrical data	
type of distribution system	TT, TN-S
operating voltage	
• at AC	230 V
value range / of the operating frequency	50 / 60 Hz
continuous operating voltage	
• at AC / maximum	335 V
• between N and PE / at AC / maximum	264 V
• between L and (PE)N / at AC / maximum	335 V
apparent power consumption / maximum	810 mVA
total discharge current / at (8/20) µs	50 kA
discharge current	
• between L and (PE)N / at (8/20) µs	12.5 kA

<ul style="list-style-type: none"> • between L and N / at (8/20) μs • between L and PE / at (8/20) μs • between L and PE / at (8/20) μs • between N and PE / at (8/20) μs • between N and PE / at (8/20) μs 	50 kA 50 kA 12.5 kA 50 kA 50 kA
total lightning impulse current / at (10/350) μ s	50 kA
lightning current peak value / at (10/350) μs	
<ul style="list-style-type: none"> • lightning current peak value / between L and PE • lightning current peak value / between N and PE • lightning current peak value / between L and N 	12.5 kA 50 kA 12.5 kA
charge of the flash / at (10/350) μs	
<ul style="list-style-type: none"> • charge of the flash / between L and N • charge of the flash / between L and PE • charge of the flash / between N and PE 	6.25 A·s 6.25 A·s 25 A·s
specific energy of the flash / at (10/350) μs	
<ul style="list-style-type: none"> • between L and N • between L and PE • between N and PE 	39 39 625
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 / maximum • between L and PE / maximum • between N and L • between N and PE / maximum • between PE and N and/or L 	1.2 kV 2 kV 1.2 kV 1.7 kV 1.7 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 3 kA / maximum • between L and PE <ul style="list-style-type: none"> — at rated value of discharge current / maximum — at 10 kA / maximum — at 5 kA / maximum — at 3 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 3 kA / maximum 	1.2 kV 1.1 kV 1 kV 0.9 kV 2 kV 1.5 kV 1.2 kV 1.1 kV 0.6 kV 0.5 kV 0.5 kV 0.4 kV
response value of the surge voltage / at 6 kV / at (1.2/50) μs	
<ul style="list-style-type: none"> • between N and PE 	1.7 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	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 N·m
connectable conductor cross-section	
<ul style="list-style-type: none"> • for finely stranded conductor • for rigid conductor • finely stranded 	1.5 ... 25 mm ² 1.5 ... 35 mm ² 1.5 ... 25 mm ²
AWG number / as coded connectable conductor cross section	15 ... 2
design of the thread / of the connection screw	M5

signal design	Optical, remote signaling contact
Indicator/remote signaling	
product component / remote signaling contact	Yes
switching function / of the remote signaling contacts	PDT contact
operating voltage / of the remote signaling contacts / at AC	5 ... 250 V
operational current / of the remote signaling contacts / at AC	5 mA ... 1.5 A
connection type of remote signaling contact	M2
connectable conductor cross-section / for remote signaling contacts / for rigid conductor	0.14 ... 1.5 mm ²
connectable conductor cross-section / for finely stranded conductor / for remote signaling contacts ...	0.14 ... 1.5 mm ²
AWG number / as coded connectable conductor cross section / for remote signaling contacts	28 ... 16
tightening torque / for remote signaling contacts	0.25 N·m
stripped length / of the cable / for remote signaling contacts	7 mm
NEMA/UL - Data	
type of distribution system	TT, TN-S
TOV behavior	
• at TOV test voltage (L-N)	415 V AC (5 s / withstand mode)
• at TOV test voltage (N-PE)	1200 V (200 ms / withstand mode)
ambient temperature	
• during operation	-40 ... +80 °C
• during storage	-40 ... +80 °C
combustibility class according to UL 94	V0
Further information	
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=5SD7414-3	
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/5SD7414-3	
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SD7414-3	
CAX-Online-Generator http://www.siemens.com/cax	



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