SIEMENS

Data sheet 5SD7414-1KU02



surge arrester UL, type 1 4-pole, 480Y/277V (wye) with remote signaling contact
The device only has cULus certification and no CE marking

General data	
number of SPD ports	1
design of the product	Surge arrester
design of pole	4
fastening method	TH35 DIN rail
material of the enclosure	thermoplast
size of surge arrester	4 TE
protection class IP at connection all terminals	IP20
relative humidity during operation	0 ... 95 %
installation altitude at height above sea level maximum	2 000 m
width	72 mm
height	90 mm
depth	66 mm
net weight	449 g
Electrical data	
operating voltage	
● at AC	277 V
value range of the operating frequency	50 / 60 Hz
discharge current 1 phase at (8/20) µs maximum	50 kA
protection level	
● between L and L maximum	2.5 kV
● between L and N maximum	1.2 kV
● between L and PE maximum	1.8 kV
● between N and PE maximum	0.6 kV
Connections/ Terminals	
type of electrical connection	Screw terminal
stripped length	12 mm
tightening torque	4 ... 5.1 N·m
connectable conductor cross-section	
● for finely stranded conductor	2.5 ... 25 mm²
● for rigid conductor	2.5 ... 25 mm²
● finely stranded	2.5 ... 25 mm²
AWG number as coded connectable conductor cross section	14 ... 4
signal design	Optical, remote signaling contact
Indicator/remote signaling	
type of voltage supply	NEC class 2 circuits
product component remote signaling contact	Yes
switching function of the remote signaling contacts	changeover contact
connectable conductor cross-section for remote signaling	0.34 ... 1.5 mm²

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contacts for rigid conductor	
connectable conductor cross-section for remote signaling contacts for finely stranded conductor	0.34 ... 1.5 mm²
AWG number as coded connectable conductor cross section for remote signaling contacts	22 ... 16
tightening torque for remote signaling contacts	0.2 N·m

NEMA/UL - Data	
short-circuit rating (SCCR) according to UL	200 kA
type of surge protective device (SPD) according to UL	open type 1 SPD
Maximum Continuous Operating Voltage (MCOV)	
● between L and L	770 V
● between L and Ground (GND)	565 V
● between L and N	385 V
● between N and Ground (GND)	180 V
discharge current	
● between N and Ground (GND) according to UL rated value	20 kA
● between L and N according to UL rated value	20 kA
● between L and Ground (GND) according to UL rated value	20 kA
● between L and L according to UL rated value	20 kA
tightening torque [lbf·in]	
● with screw-type terminals	35 ... 45 lbf·in
● for remote signaling contacts	3 lbf·in
stripped length [in]	0.5 in
AWG number as coded connectable conductor cross section	
● according to UL	14 ... 4
● for remote signaling contacts according to UL	22 ... 16
ambient temperature	
● during operation	-40 ... +85 °C
● during storage	-40 ... +85 °C
installation altitude above sea level according to UL	6 562 ft
gross weight [lb] according to UL	1.01 lb(av)
net weight [lb] according to UL	0.95 lb(av)
combustibility class according to UL 94	V0
standards according to UL	UL 1449 Edition 5; CSA - C22.2 No. 269.1

Approvals Certificates

General Product Approval				other	
Confirmation	UL	UR	EAC	Confirmation	产品合格 QC PASS

Environment

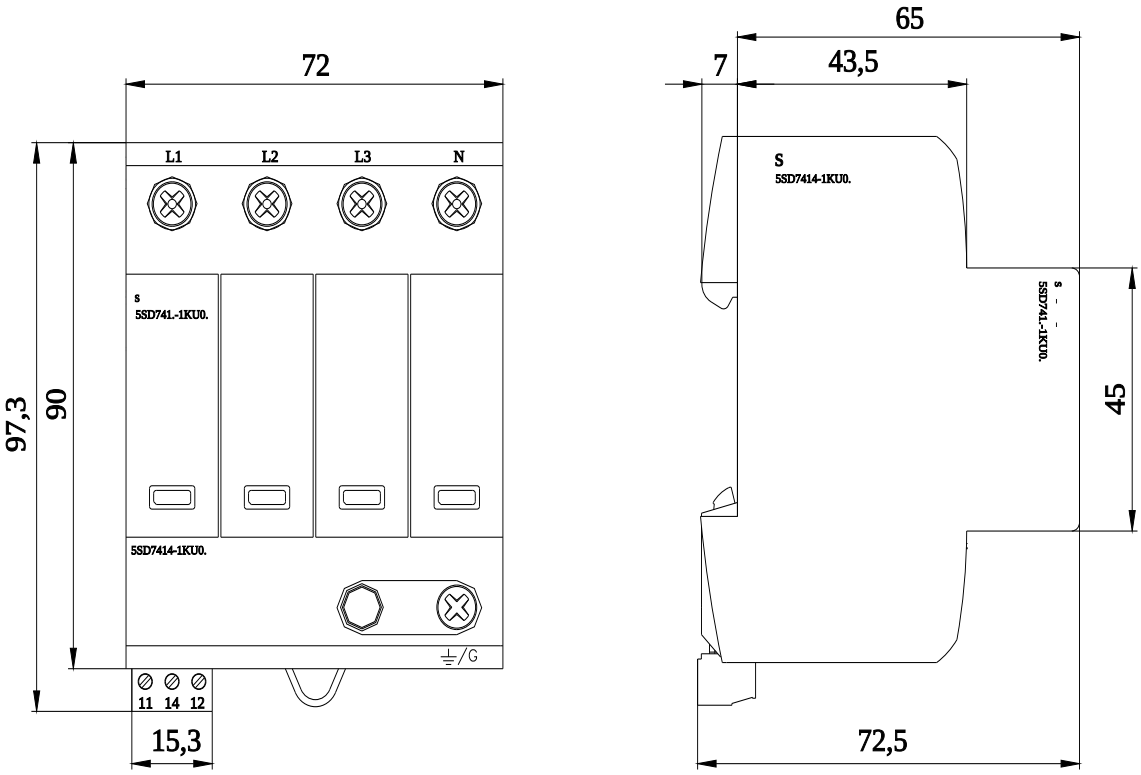
Environmental Confirmations

Further information

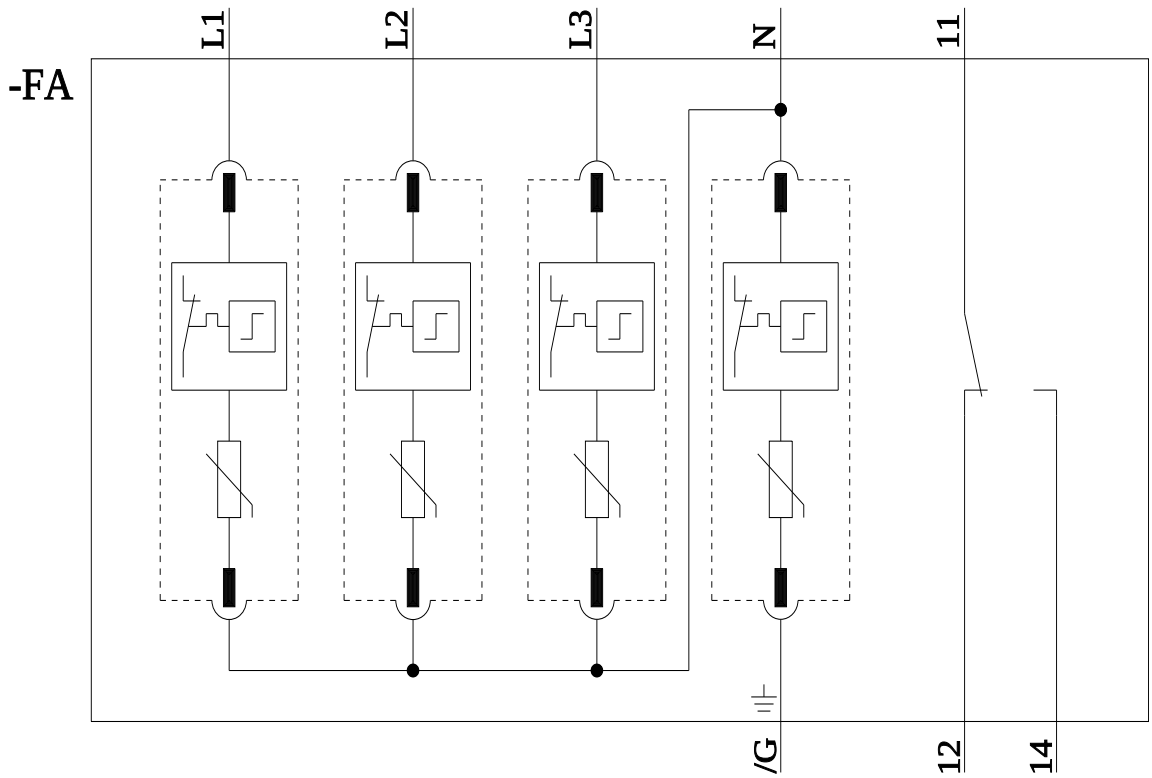
Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
Information for data generation and storage
https://support.industry.siemens.com/cs/ww/en/view/109995012
Information- and Downloadcenter (Catalogs, Brochures,…)
https://www.siemens.com/lowvoltage/catalogs
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SD7414-1KU02
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

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https://support.industry.siemens.com/cs/ww/en/ps/5SD7414-1KU02
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SD7414-1KU02
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