SIEMENS

Data sheet 5SD7414-3



LIGHTNING ARRESTER TYPE 1, UN 240/400V, UC 335/264V A.C., PLUGGABLE PROTECTION MODULES, 3+1 CIRCUIT (TN-S, TT), WIDTH 72MM REMOTE CONTROL

Model		
product brand name		SENTRON
Product designation		Surge protection device
Design of the product		Lightning arresters
Type of distribution system		TT and TN-C-S
Design of the switching function		1 CO
Design of the thread		M5
Signal design		Defect signaling contact

General technical data		
Response delay	ns	25
Apparent power consumption / in standby mode	mVA	268
Continuous operating voltage / at AC / maximum / Note		(L-N)
Insulation material		PA 6.6 / PBT
Residual voltage / at (8/20) µs	kV	1.2
SPD classification / acc. to EN 61643-11 / Test Class II, Type 2		No
SPD classification / acc. to EN 61643-11 / Test Class I, Type 1		Yes

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Protection level		
• between PE and L / for wanted signal	kV	2
• between PE and N and/or L	kV	1.7
Voltage		
Fuse protection type / at input for supply voltage		160A80AGL/gG (*with feed-through wiring)
Size of surge arrester		4MW
Continuous operating voltage		
• at AC / maximum	V	335
Short-circuit rating		25 kA rms
Residual voltage		
• between L and PE / at (8/20) µs	kV	2
• between N and PE / at (8/20) µs	kV	0.6
• between L and PE / at 10 kA / at (8/20) µs	kV	1.5
• between N and PE / at 10 kA / at (8/20) µs	kV	0.5
• between L and PE / at 5 kA / at (8/20) µs	kV	1.2
• between N and PE / at 5 kA / at (8/20) µs	kV	0.5
• between L and PE / at 3 kA / at (8/20) µs	kV	1.1
• between N and PE / at 3 kA / at (8/20) µs	kV	0.4
• at 10 kA / at (8/20) µs	kV	1.1
• at 3 kA / at (8/20) µs	kV	0.9
• at 5 kA / at (8/20) µs	kV	1
Overvoltage category / acc. to IEC 61010-1		III
Supply voltage		
Supply voltage frequency		
• minimum	Hz	50
• maximum	Hz	60
Protection class		
Protection class IP		IP20
Combustibility class acc. to UL 94		V0
Electricity		
Discharge current		
• between L and N / 1 phase / at (8/20) µs / maximum	kA	50
• 1 phase / at (8/20) µs / maximum	kA	12.5
• between N and PE / 1 phase / at (8/20) µs / maximum	kA	50
Protection level / between N and L	kV	1.2
Surge voltage resistance / at 6 kV / at (8/20) µs	kV	1.7
Main circuit		
Operating voltage		

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• at AC / Rated value	V	240

Product details

Product component / remote-signaling contact		Yes

Connections

Connectable conductor cross-section		
• for rigid conductor		
— minimum	mm²	1.5
— maximum	mm²	35
• finely stranded		
— minimum	mm²	1.5
— maximum	mm²	25
Connectable AWG conductor cross-section / as coded AWG spec. / for grounding / finely stranded		
• minimum	mm²	15
• maximum	mm²	2
Type of electrical connection		M2 screw thread

Mechanical Design

Mounting type		Rail-mountable NS 35
Net weight	g	677

Environmental conditions

Degree of pollution		2
Ambient temperature		
• minimum	°C	-40
• maximum	°C	80

General Product Approval

KEMA

Further information

Information- and Downloadcenter (Catalogs, Brochures,…)
http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)
https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/5SD74143

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
http://support.automation.siemens.com/WW/view/en/5SD74143/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SD74143

CAx-Online-Generator
http://www.siemens.com/cax

Tender specifications
http://ausschreibungstexte.siemens.com/tiplv

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