

SURGE PROTECTION FOR ETHERNET INTERFACES
UP TO 10GBITS, INCLUDED POE



Model		
product brandname		SETRON
Product designation		Surge protection device
Design of the product		Surge arrester 5SD7 for measuring and control technology
Design of the product / explosion-proof design		No
General technical data		
Break time		
• between L and N / for symmetrical circuit	ns	1
• between L or N and PE / for symmetrical circuit	ns	100
Insertion loss / for symmetrical circuit		
• with characteristic wave impedance 100 ohm / up to 5 MHz / typical	dB	1
Power pulse current / at (10/1000) µs	A	40
Capacity / between switched connecting terminals		
• for symmetrical circuit	nF	0.012
• for asymmetrical circuit	pF	1
Protection level		

• with pulse curve shape C2 / at (10 kV/5 kA) / to signal ground / acc. to IEC 61643-21	V	700
Overvoltage category		II

Voltage

Continuous operating voltage		
• at DC / maximum	V	3.3
Residual voltage / between L and L		
• for rated discharge current / for symmetrical circuit	V	15
Voltage limitation / of the output voltage		
• between L and L / at rate of voltage rise 1 kV/μs / for spike or statistical distribution in relation to danger level / for symmetrical circuit	V	9
• between L and PE / for asymmetrical circuit / at rate of voltage rise 1 kV/μs / for spike or statistical distribution in relation to danger level	V	700

Protection class

Protection class IP		IP20
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Electricity

Discharge current		
• between L and L / for symmetrical circuit / at (8/20) μs / Rated value	A	100
• between sum of all L and PE / for asymmetrical circuit / at (8/20) μs / Rated value	kA	2
Consumed current / Rated value	A	1.5
Protection level / between L and N / for symmetrical circuit		
• with spike / with pulse curve shape C2 / at (10 kV/5 kA) / acc. to IEC 61643-21	V	700

Main circuit

Operating voltage		
• rated value / maximum	V	3.3

Product details

Product component / remote-signaling contact		No
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Product function

Product function / Surge arrester monitoring		No
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Connections

Type of electrical connection		RJ45
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Mechanical Design

Height	mm	25
Width	mm	102

Depth	mm	65
Net weight	g	289
Material / of the enclosure		ZnAl4Cu1

Environmental conditions

Degree of pollution		2
Ambient temperature		
• during operation / minimum	°C	40
• during operation / maximum	°C	85

Certificates

Equipment marking		
• acc. to DIN EN 61346-2		F
• acc. to DIN EN 81346-2		F

General Product Approval	Declaration of Conformity
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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/5SD7581-3>

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

<http://support.automation.siemens.com/WW/view/en/5SD7581-3/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SD7581-3

CAX-Online-Generator

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

Tender specifications

<http://ausschreibungstexte.siemens.com/tiplv>

last modified:

10/14/2016