

D-SUB-9 ATTACHEMENT PLUG WITH SURGE PROTECTION FOR RS-485 INTERFACES



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	100
• 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	0.3
• with characteristic wave impedance 600 ohm / up to 70 kHz / typical	dB	0.3
Power pulse current / at (10/1000) µs	A	150
Capacity / between switched connecting terminals		
• for symmetrical circuit	nF	0.02
• for asymmetrical circuit	pF	20

Protection level	• between L or N and PE / for symmetrical circuit / with spike / with pulse curve shape C2 / at (10 kV/5 kA) / acc. to IEC 61643-21	V	750
	• between signal ground and PE / with pulse curve shape C2 / at (10 kV/5 kA) / acc. to IEC 61643-21	V	60
	• with pulse curve shape C2 / at (10 kV/5 kA) / to signal ground / acc. to IEC 61643-21	V	750
Overvoltage category			II

Voltage

Continuous operating voltage	• at DC / maximum	V	12
Residual voltage / between L and L			
	• for rated discharge current / for symmetrical circuit	V	25
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	25
	• 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	5 000
	• between sum of all L and PE / for asymmetrical circuit / at (8/20) μs / Rated value	kA	5
Consumed current / Rated value		A	0.38
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	40

Main circuit

Operating voltage	• rated value / maximum	V	12

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		D-sub 9-pole
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Mechanical Design

Height	mm	25
Width	mm	102
Depth	mm	65
Net weight	g	300
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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EG-Konf.

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/5SD7581-5>

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

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

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

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

CAX-Online-Generator

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

Tender specifications

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

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