

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	1 ns
• between L or N and PE / for symmetrical circuit	100 ns
Insertion loss / for symmetrical circuit	
• with characteristic wave impedance 100 ohm / up to 5 MHz / typical	1 dB
Power pulse current / at (10/1000) µs	40 A
Capacity / between switched connecting terminals	
• for symmetrical circuit	0.012 nF
• for asymmetrical circuit	1 pF
Protection level	
• with pulse curve shape C2 / at (10 kV/5 kA) / to signal ground / acc. to IEC 61643-21	700 V

Overvoltage category	II
Voltage	
Continuous operating voltage <ul style="list-style-type: none"> at DC / maximum 	3.3 V
Residual voltage / between L and L <ul style="list-style-type: none"> for rated discharge current / for symmetrical circuit 	15 V
Voltage limitation / of the output voltage <ul style="list-style-type: none"> 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 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 	9 V 700 V
Protection class	
Protection class IP	IP20
Electricity	
Discharge current <ul style="list-style-type: none"> between L and L / for symmetrical circuit / at (8/20) μs / Rated value between sum of all L and PE / for asymmetrical circuit / at (8/20) μs / Rated value 	100 A 2 kA
Consumed current / Rated value	1.5 A
Protection level / between L and N / for symmetrical circuit <ul style="list-style-type: none"> with spike / with pulse curve shape C2 / at (10 kV/5 kA) / acc. to IEC 61643-21 	700 V
Main circuit	
Operating voltage <ul style="list-style-type: none"> rated value / maximum 	3.3 V
Product details	
Product component / remote-signaling contact	No
Product function	
Product function / Surge arrester monitoring	No
Connections	
Type of electrical connection	RJ45
Mechanical Design	
Height	25 mm
Width	102 mm
Depth	65 mm
Net weight	289 g

Material / of the enclosure	ZnAl4Cu1
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Environmental conditions

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

Certificates

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

Declaration of Conformity



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/5SD7581-3>

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://www.siemens.com/specifications>