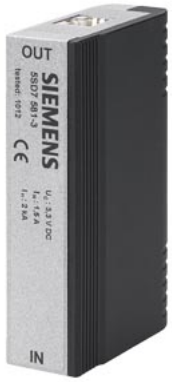
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Data sheet 5SD7581-3



overvoltage protection for Ethernet interfaces up to 10 Gbps, including PoE

Model	
product brand name	SENTRON
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 according to IEC 61643-21	700 V
overvoltage category	II
Voltage	
continuous operating voltage	
● at DC maximum	3.3 V
residual voltage between L and L	
● for rated discharge current for symmetrical circuit	15 V
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 hazard level for symmetrical circuit	9 V
● between L and PE for asymmetrical circuit at rate of voltage rise 1 kV/µs for spike or statistical distribution in relation to hazard level	700 V
Supply voltage	
operating voltage	
● rated value maximum	3.3 V
Protection class	
protection class IP	IP20
Product details	
product component remote signaling contact	No
Product function	
product function surge arrester monitoring	No

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Connections	
type of electrical connection	RJ45
Mechanical Design	
height	25 mm
width	102 mm
depth	65 mm
Net Weight	318 g
material of the enclosure	ZnAl4Cu1
Environmental conditions	
ambient temperature during operation	
• minimum	40 °C
• maximum	85 °C

Approvals Certificates

Environment		General Product Approval			other
Environmental Confirmations	Environmental Confirmations	EAC	Confirmation	CE EG-Konf.	Confirmation

other

产品合格
QC PASS

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=5SD7581-3
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/5SD7581-3
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SD7581-3
CAx-Online-Generator
https://www.siemens.com/cax
Tender specifications
https://www.siemens.com/specifications
Kennlinien
https://curves.simaris.siemens.com/curves/5SD7581-3

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