SIEMENS

Show actual product details

Data sheet 5SD7540-6

PROTECTION CONNECTOR FOR A 4-CORE FLOATING SIGNAL CIRCUIT, 24V DC, FOR BASE ELEMENTS 5SD7540-0 AND 5SD7540-1

Model		
product brandname		SENTRON
Product designation		Plug-in part
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
Lightning impulse current / at (10/350) µs / per path	kA	2.5
Insertion loss / for symmetrical circuit		
• with characteristic wave impedance 50 ohm / up to 1 MHz / typical	dB	0.1
• with characteristic wave impedance 150 ohm / up to 400 kHz / typical	dB	0.1
• with characteristic wave impedance 600 ohm / up to 70 kHz / typical	dB	0.1
Limit frequency (-3 dB)		

• for symmetrical circuit / with characteristic wave impedance 50 ohm	MHz	6
• for symmetrical circuit / with characteristic wave impedance 100 ohm	MHz	2.5
• for symmetrical circuit / with characteristic wave impedance 600 ohm	kHz	600
Power pulse current / at (10/1000) µs	A	67
Capacity / between switched connecting terminals		
• for symmetrical circuit	nF	1.4
• for asymmetrical circuit	pF	8
Leakage current / with maximum continuous operating voltage / to PE	µA	4
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	450
• with pulse curve shape C2 / at (10 kV/5 kA) / to signal ground / acc. to IEC 61643-21	V	450
• for symmetrical circuit / with spike / acc. to IEC 61643-21	V	50
Overvoltage category		III

Voltage

Continuous operating voltage		
• at DC / maximum	V	24
Residual voltage / between L and L		
• for rated discharge current / for symmetrical circuit	V	60
• for lightning surge current / for symmetrical circuit	V	45
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	40
• 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	450

Protection class

Protection class IP		IP20

Electricity

Discharge current		
• between L and L / for symmetrical circuit / at (8/20) µs / Rated value	A	365
• between L and L / for symmetrical circuit / at (8/20) µs / maximum	A	365

• subtotal of all L and PE for asymmetrical circuit / at (8/20) µs / maximum	kA	20
• between sum of all L and PE / for asymmetrical circuit / at (8/20) µs / Rated value	kA	20
Consumed current / Rated value	A	2
Leakage current / with maximum continuous operating voltage	µA	5

Main circuit

Operating voltage		
• rated value / maximum	V	27
Operating current / of the slow-blow fuse link	A	2

Product details

Product component / remote-signaling contact		No

Product function

Product function / Surge arrester monitoring		No

Connections

Connectable conductor cross-section		
• solid / with core end processing / minimum	mm²	4
• finely stranded / minimum	mm²	2.5
AWG number / as coded connectable conductor cross section		
• minimum		24
• maximum		12
Type of electrical connection		Terminal

Mechanical Design

Net weight	g	20.3
Material / of the enclosure		PA6.6

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
EAC	CE 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/5SD7540-6

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
http://support.automation.siemens.com/WW/view/en/5SD7540-6/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SD7540-6

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

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

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