Extract from the online catalog

S-PT-2XEX-24DC-1/2"

Order No.: 2800041

http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2800041

Surge protection for two floating signal circuits in screw-on module with IP67 degree of protection for sensor heads, connection ½-inch 14 NPT. Tested in acc. with the protection types in Ex areas Ex d / Ex tD / Ex ia IIC / Ex iaD.

SIL evaluated IEC 61508

Product notes

WEEE/RoHS-compliant since: 05/13/2008

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Commercial data

GTIN (EAN)	4 046356 411035
sales group	J331
Pack	1 pcs.
Customs tariff	85363010
Catalog page information	Page 115 (TT-2011)

Technical data

General

Housing material	High-grade steel
Color	silver

Standards for air and creepage distances	IEC 60664-1
	IEC 60079-11
Total surge current (8/20) µs	20 kA
Total surge current (10/350) µs	2 kA
Ambient temperature (operation)	-25 °C ... 80 °C (non-EX)
Mounting type	1/2 inch NPT
Design	Screw-in module
Number of positions	4
Degree of protection	IP67
Direction of action	Line-Line & Line-Earth Ground
Width	28.00 mm
Height	79.00 mm
Length	28.00 mm

Protective circuit

IEC category	C1
	C2
	C3
	D1
Nominal voltage U_N	24 V DC
Maximum continuous operating voltage U_C	36 V DC
	25 V AC
Maximum continuous voltage UC (wire-wire)	36 V DC
	25 V AC
Ground conductor current I_{PE}	≤ 2 µA
Nominal discharge surge current I_n (8/20) µs (Core-Core)	260 A
Nominal discharge surge current I_n (8/20) µs (Core-Earth)	10 kA
Total surge current (8/20) µs	20 kA
Nominal pulse current Ian (10/1000) µs (Core-Core)	50 A
Lightning test current (10/350) µs, peak value I_{imp}	1 kA
Output voltage limitation at 1 kV/µs (Core-Core) spike	≤ 65 V
Output voltage limitation at 1 kV/µs (Core-Earth) spike	≤ 1.1 kV

Output voltage limitation at 1 kV/µs (Core-Core) static	≤ 50 V
Protection level U_P (Core-Core)	≤ 50 V (C3 (10 A))
Protection level U_P (Core-Earth)	≤ 1.1 kV (C3 (100A))
	≤ 1.1 kV (C1 - 500 A)
	≤ 1.2 kV (C2 (10 kV/5 kA))
Response time tA (Core-Core)	≤ 1 ns
Response time tA (Core-Earth)	≤ 100 ns
Input attenuation aE, sym.	Typ. 0.1 dB (1 MHz / 50 Ω)
	Typ. 0.1 dB (400 kHz / 150 Ω)
Cut-off frequency fg (3 dB), sym. in 50 Ohm system	Typ. 5 MHz
Cut-off frequency fg (3 dB), sym. in 150 Ohm system	Typ. 2 MHz
Capacity (Core-Core)	Typ. 1.5 nF
Capacity (Core-Earth)	Typ. 5 pF
Resistance in series	0 Ω
Surge carrying capacity in acc. with IEC 61643-21 (Core-Core)	C3 (25 A)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	C1 (1 kV / 500 A)
	C2 (10 kV/5 kA)
	C3 (100 A)
	D1 (1 kA)
Alternating current carrying capacity in acc. with IEC 61643-21 (Core-Earth)	10 A - 1 s

Connection data

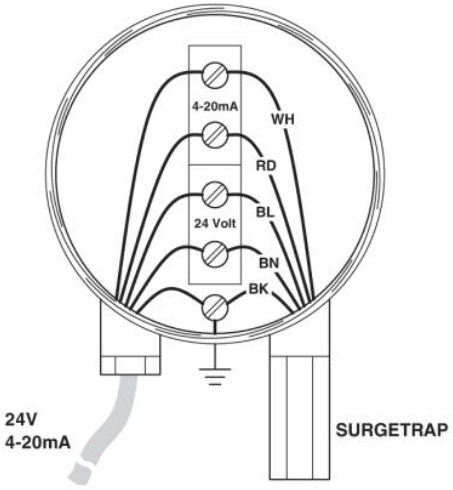
Connection method	Individual wires

Connection, protective circuit

Standards/regulations	EN 61643-21
	EN 60079-0
	EN 60079-1
	EN 60079-11
	EN 60079-26
	EN 61241-0
	EN 61241-1
	EN 61241-11

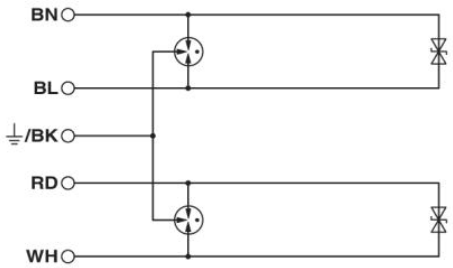
Diagrams/Drawings

Application drawing



Dimensioned drawing

Circuit diagram



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