

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

Order No.: 2800041



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Surge protection for two floating signal circuits in screw-on module with IP67 degree of protection for sensor heads, connection 1/2-inch 14 NPT. Tested in acc. with the protection types in Ex areas Ex d / Ex tD / Ex ia IIC / Ex iaD.



Commercial data	
GTIN (EAN)	4046356411035
sales group	J331
Pack	1 pcs.
Customs tariff	85363010
Weight/Piece	0.23532 KG
Catalog page information	Page 113 (TT-2009)

Product notes

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



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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) μ s	20 kA
Total surge current (10/350) μ s	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
Max. operating voltage U_{max}	36 V DC
Arrester rated voltage U_c	36 V DC
	25 V AC
Arrester rated voltage U_c (Core-Core)	36 V DC
	25 V AC
Discharge current to PE at U_c	$\leq 2 \mu$ A
Nominal discharge surge current I_n (8/20) μ s (Core-Core)	260 A
Nominal discharge surge current I_n (8/20) μ s (Core-Earth)	10 kA
Total surge current (8/20) μ s	20 kA
Nominal pulse current I_{an} (10/1000) μ s (Core-Core)	50 A
Lightning test current (10/350) μ s, peak value I_{imp}	1 kA
Output voltage limitation at 1 kV/ μ s (Core-Core) spike	≤ 65 V
Output voltage limitation at 1 kV/ μ s (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 t _A (Core-Core)	≤ 1 ns
Response time t _A (Core-Earth)	≤ 100 ns
Input attenuation a _E , sym.	Typ. 0.1 dB (1 MHz / 50 Ω)
	Typ. 0.1 dB (400 kHz / 150 Ω)
Cut-off frequency f _g (3 dB), sym. in 50 Ohm system	Typ. 5 MHz
Cut-off frequency f _g (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

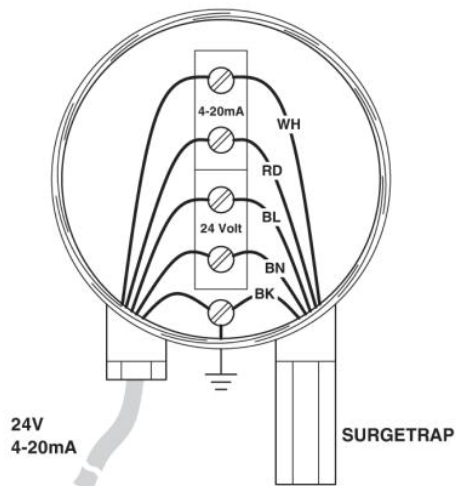
Type of connection	Individual wires
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Connection, protective circuit

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

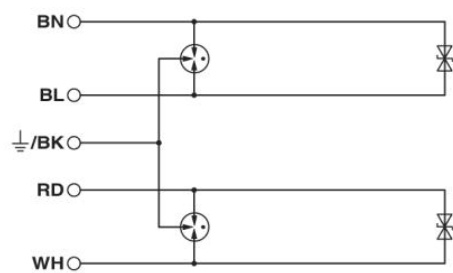
Application drawing



Dimensioned drawing



Circuit diagram



Address

PHOENIX CONTACT Deutschland GmbH
Flachsmarktstr. 8
32825 Blomberg, Germany
Phone +49 5235 3 12000
Fax +49 5235 3 41200
<http://www.phoenixcontact.de>



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