

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 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



<http://www.download.phoenixcontact.com>
Please note that the data given here has been taken from the online catalog. For comprehensive information and data, please refer to the user documentation. The General Terms and Conditions of Use apply to Internet downloads.

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/ μ s (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 aE, 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

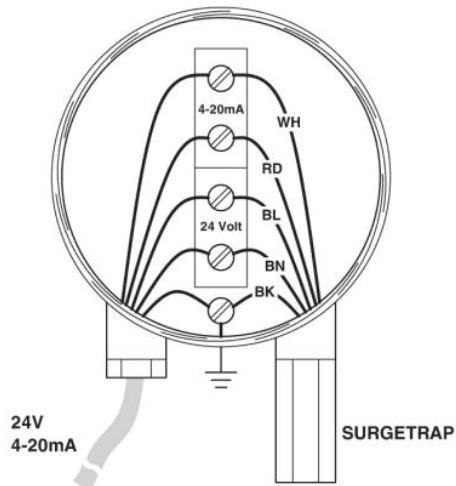
Type of connection	Individual wires
--------------------	------------------

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

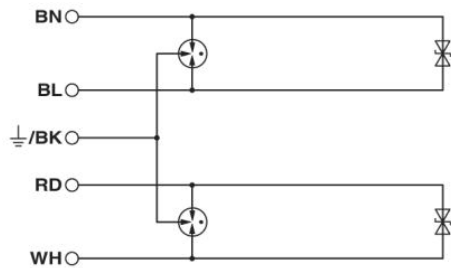
Application drawing



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>



© 2010 Phoenix Contact
Technical modifications reserved;