Extract from the online catalog

S-PT1-2PE-24DC

Order No.: 2818122

http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2818122

Screw on module for conduit systems, with two conductor protection for a 2-core floating signal circuit. Design: 24 V DC

Commercial data	
GTIN (EAN)	4017918148355
Note	Made-to-order
sales group	J330
Pack	1 pcs.
Customs tariff	85363010
Weight/Piece	0.3308 KG
Catalog page information	Page 55 (TT-2002)

Product notes

WEEE/RoHS-compliant since: 06/29/2006

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

Color	silver
Standards for air and creepage distances	VDE 0110-1
	IEC 60664-1
Total surge current (8/20) µs	20 kA
Ambient temperature (operation)	-40 °C ... 80 °C

Mounting type	Connection-specific intermediate plugging
Design	Screw-in module
Number of positions	3
Degree of protection	IP40
Direction of action	Line-Line & Line-Earth Ground
Width	33.00 mm
Height	120.00 mm
Length	33.00 mm

Protective circuit

IEC category	C1
	C2
	C3
	D1
Nominal voltage U_N	24 V DC
Max. operating voltage U_{max}	28 V DC
Arrester rated voltage U_C	28 V DC
	20 V AC
Arrester rated voltage U_C (Core-Core)	28 V DC
	20 V AC
Nominal current I_N	250 mA (25°C)
Operating effective current I_C at U_C	≤ 5 µA
Discharge current to PE at U_C	≤ 2 µA
Nominal discharge surge current In (8/20) µs (Core-Core)	10 kA
Nominal discharge surge current I_n (8/20) µs (Core-Earth)	10 kA
Total surge current (8/20) µs	20 kA
Max. discharge surge current Imax (8/20) µs maximum (Core-Core)	10 kA
Max. discharge surge current Imax (8/20) µs maximum (Core-Earth)	10 kA
Nominal pulse current Ian (10/1000) µs (Core-Core)	180 A
Nominal pulse current Ian (10/1000) µs (Core-Earth)	180 A
Output voltage limitation at 1 kV/µs (Core-Core) spike	≤ 60 V

Output voltage limitation at 1 kV/µs (Core-Earth) spike	≤ 450 V
Output voltage limitation at 1 kV/µs (Core-Core) static	≤ 60 V
Residual voltage at I_n, (conductor-conductor)	≤ 40 V
Residual voltage at I_n, (conductor-ground)	≤ 60 V
Residual voltage with Ian (10/1000)µs (conductor-conductor)	≤ 25 V
Residual voltage with Ian (10/1000)µs (conductor-ground)	≤ 20 V
Protection level U_P (Core-Core)	≤ 55 V
Protection level U_P (Core-Earth)	≤ 550 V
Response time tA (Core-Core)	≤ 1 ns
Response time tA (Core-Earth)	≤ 100 ns
Input attenuation aE, sym.	≤ 1.6 dB (up to 500 kHz, 50 Ω system)
	≤ 0.6 dB (up to 200 kHz, 150 Ω system)
	≤ 0.2 dB (up to 50 kHz, 600 Ω system)
Cut-off frequency fg (3 dB), sym. in 50 Ohm system	Typ. 3.5 MHz
Cut-off frequency fg (3 dB), sym. in 150 Ohm system	Typ. 1.5 MHz
Cut-off frequency fg (3 dB), sym. in 600 Ohm system	Typ. 400 kHz
Capacity (Core-Core)	Typ. 1.5 nF
Resistance in series	10 Ω 5%
Surge carrying capacity in acc. with IEC 61643-21 (Core-Core)	C2 (10 kV/5 kA)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	C2 (10 kV/5 kA)
	D1 (2.5 kA)
Alternating current carrying capacity in acc. with IEC 61643-21 (Core-Earth)	5 A - 1 s

Connection data

Connection type IN	Screw terminal blocks
Connection type OUT	Screw terminal blocks
Conductor cross section stranded min.	0.14 mm²
Conductor cross section stranded max.	1.5 mm²
Conductor cross section solid min.	0.14 mm²
Conductor cross section solid max.	1.5 mm²

Conductor cross section AWG/kcmil min.	26
Conductor cross section AWG/kcmil max	16

Connection, protective circuit

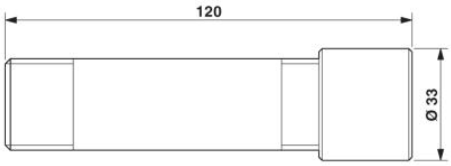
Standards/regulations	IEC 61643-21

Certificates / Approvals

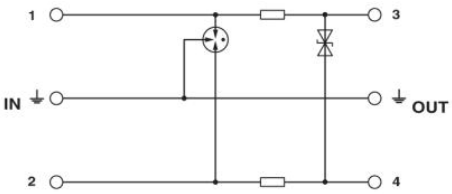
Certification	GOST, UL
Certification Ex:	CUL-EX LIS, UL-EX LIS

Diagrams/Drawings

Dimensioned drawing



Circuit diagram



Address

PHOENIX CONTACT Inc., USA
586 Fulling Mill Road
Middletown, PA 17057,USA
Phone (800) 888-7388
Fax (717) 944-1625
http://www.phoenixcon.com