

S-PT1-2PE-24DC

Item cannot be ordered online at present.

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

EAN	4017918148355
Pack	1 Pcs.
Customs tariff	85363010
Weight/Piece	0.3158 KG
Catalog page information	Page 55 (TT-2002)

<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) μ s	20 kA
Ambient temperature (operation)	-40 °C ... 80 °C
Mounting type	Connection-specific intermediate plugging
Design	Screw-on 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	$\leq 5 \mu A$
Discharge current to PE at U_c	$\leq 2 \mu A$
Nominal discharge surge current I_n (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 I_{max} (8/20) μs maximum (Core-Core)	10 kA
Max. discharge surge current I_{max} (8/20) μs maximum (Core-Earth)	10 kA
Nominal power pulse current I_{an} (10/1000) μs (Core-Core)	180 A
Nominal power pulse current I_{an} (10/1000) μs (Core-Earth)	180 A
Output voltage limitation at 1 kV/ μs (Core-Core) spike	$\leq 60 V$
Output voltage limitation at 1 kV/ μs (Core-Earth) spike	$\leq 450 V$
Output voltage limitation at 1 kV/ μs (Core-Core) static	$\leq 60 V$
Residual voltage at I_n , (conductor-conductor)	$\leq 40 V$

Residual voltage at In, (conductor-ground)	$\leq 60 \text{ V}$
Residual voltage with I_{an} (10/1000) μs (conductor-conductor)	$\leq 25 \text{ V}$
Residual voltage with I_{an} (10/1000) μs (conductor-ground)	$\leq 20 \text{ V}$
Protection level U_p (Core-Core)	$\leq 55 \text{ V}$
Protection level U_p (Core-Earth)	$\leq 550 \text{ V}$
Response time t_A (Core-Core)	$\leq 1 \text{ ns}$
Response time t_A (Core-Earth)	$\leq 100 \text{ ns}$
Input attenuation aE, sym.	$\leq 1.6 \text{ dB}$ (up to 500 kHz, 50 Ω system)
	$\leq 0.6 \text{ dB}$ (up to 200 kHz, 150 Ω system)
	$\leq 0.2 \text{ dB}$ (up to 50 kHz, 600 Ω system)
Cut-off frequency f_g (3 dB), sym. in 50 Ohm system	Typ. 3.5 MHz
Cut-off frequency f_g (3 dB), sym. in 150 Ohm system	Typ. 1.5 MHz
Cut-off frequency f_g (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

General

Connection type IN	Screw terminal blocks
Connection type OUT	Screw terminal blocks
Conductor cross section stranded min.	0.14 mm ²
Conductor cross section stranded max.	1.5 mm ²
Conductor cross section solid min.	0.14 mm ²
Conductor cross section solid max.	1.5 mm ²
Conductor cross section AWG/kcmil min.	26
Conductor cross section AWG/kcmil max	16

Connection, protective circuit

Standards/regulations	IEC 61643-21
-----------------------	--------------

Certificates / Approvals

Approval logo

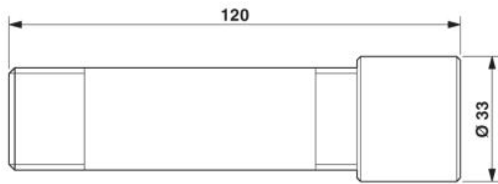


requested approbations

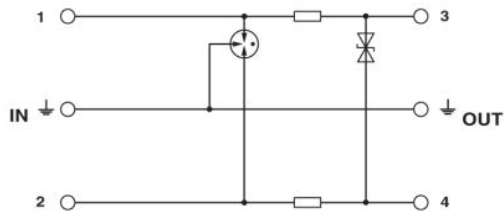
Certification	GOST, UL
Certification Ex:	CUL-EX LIS, UL-EX LIS

Drawings

Dimensioned drawing



Circuit diagram



Address

PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstr. 8
32825 Blomberg, Germany
Phone +49 5235 3 00
Fax +49 5235 3 41200
<http://www.phoenixcontact.de>



© 2008 Phoenix Contact
Technical modifications reserved;