

S-PT1-2PE-24DC

Order No.: 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)

Product notes

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



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 pulse current I_{an} (10/1000) μs (Core-Core)	180 A
Nominal 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/ μ s (Core-Earth) spike	≤ 450 V
Output voltage limitation at 1 kV/ μ s (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 I_{an} (10/1000) μ s (conductor-conductor)	≤ 25 V
Residual voltage with I_{an} (10/1000) μ s (conductor-ground)	≤ 20 V
Protection level U_p (Core-Core)	≤ 55 V
Protection level U_p (Core-Earth)	≤ 550 V
Response time t_A (Core-Core)	≤ 1 ns
Response time t_A (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 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

Connection data

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
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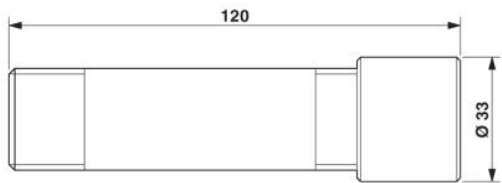
Certificates / Approvals



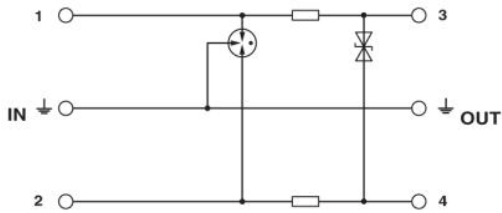
Certification	GOST, UL
Certification Ex:	CUL-EX LIS, UL-EX LIS

Drawings

Dimensioned drawing



Circuit diagram



Approval logo (Ex area)

