



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Surge protection device - S-PT1-2PE-24DC - 2818122


Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://download.phoenixcontact.com>)



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



Key commercial data

Packing unit	1
Minimum order quantity	30
Catalog page	Page 55 (TT-2002)
GTIN	 4 017918 148355
Custom tariff number	85363010
Country of origin	GERMANY

Technical data

General

Color	silver
Standards for air and creepage distances	VDE 0110-1
Standards for air and creepage distances	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-in module
Number of positions	3
Degree of protection	IP40
Direction of action	Line-Line & Line-Earth Ground
Width	33 mm
Height	33 mm
Depth	120 mm

Protective circuit

IEC category	C1
IEC category	C2
IEC category	C3

Surge protection device - S-PT1-2PE-24DC - 2818122

Technical data

Protective circuit

IEC category	D1
Nominal voltage UN	24 V DC
Maximum continuous operating voltage UC	28 V DC
Maximum continuous operating voltage UC	20 V AC
Maximum continuous voltage UC (wire-wire)	28 V DC
Maximum continuous voltage UC (wire-wire)	20 V AC
Nominal current IN	250 mA (25°C)
Operating effective current IC at UC	≤ 5 µA
Ground conductor current IPE	≤ 2 µA
Nominal discharge surge current In (8/20) µs (Core-Core)	10 kA
Nominal discharge surge current In (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	≤ 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 In, (conductor-conductor)	≤ 40 V
Residual voltage at In, (conductor-ground)	≤ 60 V
Residual voltage with I _{an} (10/1000)µs (conductor-conductor)	≤ 25 V
Residual voltage with I _{an} (10/1000)µs (conductor-ground)	≤ 20 V
Protection level UP (Core-Core)	≤ 55 V
Protection level UP (Core-Earth)	≤ 550 V
Response time t _A (Core-Core)	≤ 1 ns
Response time t _A (Core-Earth)	≤ 100 ns
Input attenuation a _E , sym.	≤ 1.6 dB (up to 500 kHz, 50 Ω system)
Input attenuation a _E , sym.	≤ 0.6 dB (up to 200 kHz, 150 Ω system)
Input attenuation a _E , sym.	≤ 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)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	D1 (2.5 kA)
Alternating current carrying capacity in acc. with IEC 61643-21 (Core-Earth)	5 A - 1 s

Connection data

Surge protection device - S-PT1-2PE-24DC - 2818122

Technical data

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
-----------------------	--------------

Classifications

eclass

eCl@ss 4.0	27140201
eCl@ss 4.1	27130801
eCl@ss 5.0	27130801
eCl@ss 5.1	27130801
eCl@ss 6.0	27130807
eCl@ss 7.0	27130807

etim

ETIM 2.0	EC000943
ETIM 3.0	EC000943
ETIM 4.0	EC000943

unspsc

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620

Approvals

Approvals

Approvals

UL Recognized / GOST / UL Listed

Ex Approvals

UL Listed / cUL Listed / cULus Recognized

Surge protection device - S-PT1-2PE-24DC - 2818122

Approvals

Approvals submitted

Approval details

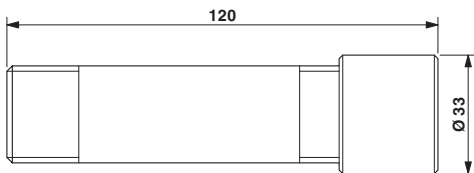
UL Recognized

GOST

UL Listed

Drawings

Dimensioned drawing



Circuit diagram

