Surge protection device - PT 2X1-VF-230AC - 2805460

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://phoenixcontact.com/download)



Illustration shows variant PT 2X1-VF-120AC

Rail-mountable surge arrester for higher signal voltages. Protective circuit free of leakage current for two floating signals.
Nominal voltage: 230 V AC

Product Features

- Plugs can be checked with CHECKMASTER
- Maximum ease of maintenance thanks to the two-piece design
- Base element remains an integral part of the installation
- Protective devices for use in telecommunications and signaling networks according to IEC 61643-21
- Consistent plug-in signal circuit protection
- Impedance-neutral disconnection of plug for test and maintenance purposes

Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	72.0 GRM
Custom tariff number	85363010
Country of origin	Germany

Technical data

Dimensions

Height	90 mm
Width	17.7 mm
Depth	65.5 mm
Horizontal pitch	1 Div.
Complete module height	90 mm

Surge protection device - PT 2X1-VF-230AC - 2805460

Technical data

Dimensions

Complete module width	17.7 mm
Complete module depth	65.5 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 80 °C
Degree of protection	IP20

General

Housing material	PA 6.6
Inflammability class according to UL 94	V0
Color	black
Mounting type	DIN rail: 35 mm
Type	DIN rail module, two-section, divisible
Number of positions	2
Direction of action	Line-Line & Line-Earth Ground

Protective circuit

IEC test classification	C1
	C2
	C3
	D1
Nominal voltage U_N	230 V AC
	250 V AC
Maximum continuous voltage U_C (wire-ground)	250 V AC
Nominal current I_N	6 A
Operating effective current I_C at U_C	≤ 2 µA
Residual current I_{PE}	≤ 2 µA (at U_N)
Nominal discharge current I_n (8/20) µs	3 kA
Nominal discharge current I_n (8/20) µs (Core-Earth)	3 kA
Total surge current (8/20) µs	8 kA
Total surge current (10/350) µs	1 kA
Max. discharge current I_{max} (8/20) µs	8 kA
Max. discharge current I_{max} (8/20) µs maximum (Core-Earth)	8 kA
Nominal pulse current Ian (10/1000) µs (Core-Earth)	100 A
Impulse discharge current (10/350)#µs, peak value I_{imp}	500 A
Output voltage limitation at 1 kV/µs (Core-Earth) static	≤ 1.4 kV
Residual voltage at I_n, (conductor-conductor)	≤ 2 kV
Residual voltage at I_n, (conductor-ground)	≤ 1 kV

Surge protection device - PT 2X1-VF-230AC - 2805460

Technical data

Protective circuit

Residual voltage with Ian (10/1000)µs (conductor-conductor)	≤ 1.4 kV
Residual voltage with Ian (10/1000)µs (conductor-ground)	≤ 700 V
Energy absorption	150 J
Voltage protection level U_P (Core-Core)	≤ 2.5 kV (C2 (4 kV/2 kA))
	≤ 1.8 kV (C3 - 100 A)
	≤ 2.6 kV (D1 - 500 A)
Voltage protection level U_P (Core-Earth)	≤ 1.1 kV (C1 - 500 A)
	≤ 1.5 kV (C2 (4 kV/2 kA))
	≤ 1.6 kV (C3 - 100 A)
	≤ 1.8 kV (D1 - 500 A)
Response time t_A	≤ 100 ns
Capacity (Core-Core)	typ. 4.5 pF
Capacity (Core-Earth)	typ. 9 pF
Resistance in series	0 Ω
Surge protection fault message	None
Max. required back-up fuse	6 A (gL / gG)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	C2 (4 kV / 2 kA)
	C3 (100 A)
	D1 (500 A)

Connection data

Connection method	Screw connection
Connection type IN	Screw terminal blocks
Connection type OUT	Screw terminal blocks
Screw thread	M3
Tightening torque	0.8 Nm
Stripping length	8 mm
Conductor cross section stranded min.	0.2 mm²
Conductor cross section stranded max.	2.5 mm²
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	4 mm²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12

Connection, equipotential bonding

Connection method	Screw connection
Tightening torque, min	0.8 Nm

Standards and Regulations

Surge protection device - PT 2X1-VF-230AC - 2805460

Technical data

Standards and Regulations

Standards/regulations	DIN EN 61643-21

Classifications

eCl@ss

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
eCl@ss 8.0	27130807

ETIM

ETIM 2.0	EC000943
ETIM 3.0	EC000943
ETIM 4.0	EC000943
ETIM 5.0	EC000943

UNSPSC

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

Approvals

Approvals

Approvals

GOST

Ex Approvals

Approvals submitted

Surge protection device - PT 2X1-VF-230AC - 2805460

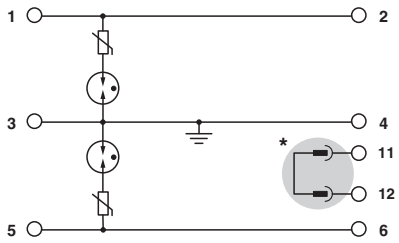
Approvals

Approval details

GOST

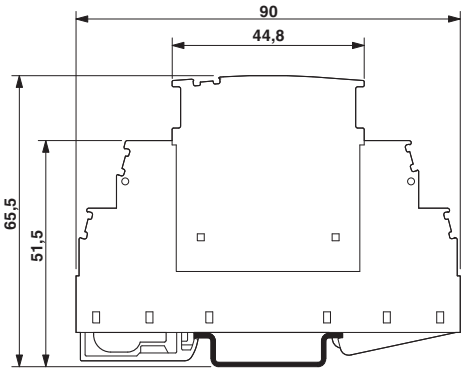
Drawings

Circuit diagram



* Circuit only closed when plug is inserted.

Dimensioned drawing



Phoenix Contact 2014 © - all rights reserved
http://www.phoenixcontact.com

Unikeyic Electronics

Global Electronic Components Distributor

Click to view pricing, inventory, delivery, and lifecycle information:

PHOENIX CONTACT:

0817028 0818111 2800976 0801422 1052345:0021 1778599 3210202 1604561 1899414 3036424
3244449 0800379 0818153 1817440 0801820 0828799 1442188 1712737 1674794 2838254 2905346
3248125 1619453 0808671:0311 1407671 2800865 1539570 1956137 3241240 5435970