


BXT-M/PLI-24

Order No.: 2830113



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2830113>

Surface-mounted housing with surge protection, for RS-485 interface with 24 V signal voltage, mains connection with slot for protective plug PRT-S... (without protective plug)

Commercial data	
GTIN (EAN)	 4 017918 139360
sales group	J450
Pack	1 pcs.
Customs tariff	85363010
Catalog page information	Page 145 (TT-2009)

Product notes

WEEE/RoHS-compliant since:
08/14/2006



<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	gray
Standards for air and creepage distances	IEC 60664-1: 1992-10
	IEC 61643-1

Total surge current (8/20) μ s	5 kA
Ambient temperature (operation)	-40 °C ... 75 °C
Mounting type	Surface/Wall mounting
Design	Housing for surface mounting
Degree of protection	IP54
Direction of action	Line-Line & Line-Signal Ground/Shield & Signal Ground/Shield-Earth Ground
Width	100.00 mm
Height	100.00 mm
Length	50.00 mm

Protective circuit

IEC category	B2
	C1
	C2
	C3
	D1
Maximum continuous operating voltage U_c	25 V DC
Maximum continuous voltage U_C (wire-wire)	25 V DC
Nominal current I_N	1.5 A (25°C)
Operating effective current I_c at U_c	$\leq 1 \mu$ A
Ground conductor current I_{PE}	$\leq 5 \mu$ A
Nominal discharge surge current I_n (8/20) μ s (Core-Core)	185 A
Nominal discharge surge current I_n (8/20) μ s (Core-Earth)	5 kA
Total surge current (8/20) μ s	5 kA
Max. discharge surge current I_{max} (8/20) μ s maximum (Core-Core)	185 A
Max. discharge surge current I_{max} (8/20) μ s maximum (Core-Earth)	5 kA
Output voltage limitation at 1 kV/ μ s (Core-Core) spike	≤ 130 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	≤ 40 V
Output voltage limitation at 1 kV/ μ s (Core-Earth) static	≤ 450 V

Protection level U _p (Core-Core)	≤ 50 V (B2 - 2 kV/50 A)
	≤ 60 V (C1 - 180 A)
	≤ 50 V (C3 - 35 A)
Protection level U _p (Core-Earth)	≤ 550 V (B2 - 4 kV/100 A)
	≤ 550 V (C2, 4 kV/2 kA)
	≤ 600 V (C2, 10 kV/5 kA)
	≤ 700 V (C3 - 100 A)
Response time t _A (Core-Core)	≤ 500 ns
Response time t _A (Core-Earth)	≤ 100 ns
Input attenuation a _E , sym.	Typ. 0.1 dB (≤ 10 MHz/50 Ω)
	Typ. 0.1 dB (≤ 4 MHz / 150 Ω)
	Typ. 0.1 dB (≤ 1 MHz/600 Ω)
Cut-off frequency f _g (3 dB), sym. in 50 Ohm system	Typ. 100 MHz
Cut-off frequency f _g (3 dB), sym. in 150 Ohm system	Typ. 100 MHz
Cut-off frequency f _g (3 dB), sym. in 600 Ohm system	Typ. 10 MHz
Capacity (Core-Core)	Typ. 20 pF
Capacity (Core-Earth)	Typ. 10 pF
Surge carrying capacity in acc. with IEC 61643-21 (Core-Core)	B2 (50 A)
	C1 (180 A)
	C3 (35 A)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	B2 (4 kV / 100 A)
	C2 (10 kV/5 kA)
	C3 (100 A)
	D1 (2.5 kA)

Connection data

Connection method	Screw terminal blocks
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 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



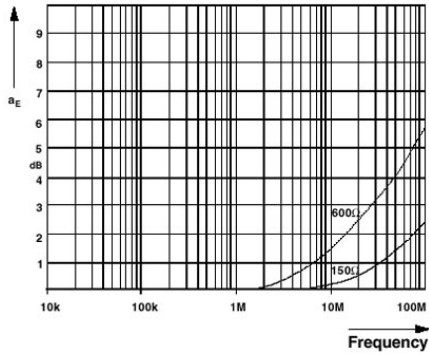
Certification GOST

Additional products

Item	Designation	Description
General		
2830618	PRT-S-120/FM	Equipment protection plug PRT-S with temperature monitoring, visual fault warning and remote indicator contact. Nominal voltage: 120 V
2749686	PRT-S-230/FM	Equipment protection plug PRT-S with temperature monitoring, visual fault warning and remote indicator contact. Nominal voltage: 230 V
2830605	PRT-S/A-120/FM	Equipment protection plug PRT-S with temperature monitoring, visual and acoustic fault warning and remote indicator contact. Nominal voltage: 120 V
2830621	PRT-S/A-230/FM	Equipment protection plug PRT-S with temperature monitoring, visual and acoustic fault warning and remote indicator contact. Nominal voltage: 230 V

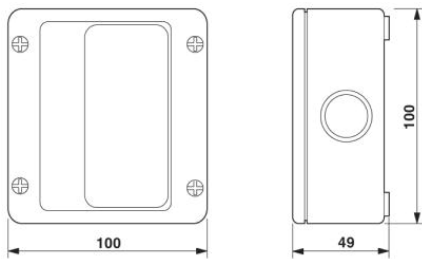
Diagrams/Drawings

Diagram

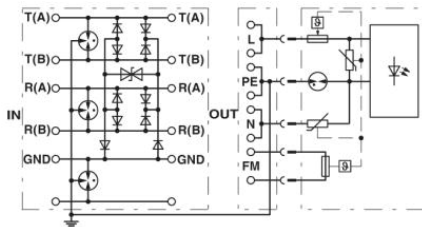


Characteristic attenuation curve

Dimensioned drawing



Circuit diagram



1 = signaling
 2 = optional

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>



© 2011 Phoenix Contact
Technical modifications reserved;