

MNT-POWERLINE

Order No.: 2858001



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2858001>

Surge protection for modems in data transmission systems, such as POWERLINE and HomePlug, socket attachment plug (German-style grounding connector in acc. with VDE) for use in: D, A, I, NL, S, E, N, FIN.

Commercial data	
GTIN (EAN)	4017918900656
Note	Made-to-order
sales group	J032
Pack	1 pcs.
Customs tariff	85363010
Weight/Piece	0.1717 KG
Catalog page information	Page 51 (TT-2009)

Product notes

WEEE/RoHS-compliant since:
08/17/2006



<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.

Product description

MNT-POWERLINE is an arrester for the protection of modems for data transmission systems, such as POWERLINE and HomePlug, e.g. MicroLink(TM) dLAN, that are operated via the power supply network. The protective circuit is ideally adapted and offers maximum data security and minimum signal attenuation. The protection device is designed as a socket attachment plug. It is simply plugged into the socket of the power supply unit. Depending on the design, the modem is then either plugged into the power supply unit directly or connected via a mains cable. Data transmission with the modem via the power supply network is now in operation and at the same time protected. The protected arrester connection can be multiplied by using a multiple position socket and other devices, such as computers and printers can be connected. The entire workplace is thus protected against surge voltages from the power supply with just one

arrester. The L - N protective path is thermally monitored and is disconnected from the mains if overloaded. The green operating indicator also signalizes that the protective circuit is functioning correctly. If the operating indicator goes off, either the mains voltage is switched off, or the protective path has been disconnected from the mains due to overload. The protective device has an integrated child-proof device as additional shock protection. The socket attachment plug (Connector standard: German-style grounding connector in acc. with VDE) is suitable for use in D, A, I, NL, S, E, N, FIN.

Technical data

Standards

Inflammability class acc. to UL 94	V0/HB
Color	black
Standards for air and creepage distances	VDE 0110-1
	IEC 60664-1: 1992-10
Degree of protection	IP20 (child-proof)
Design	Attachment plug
Mounting type	Plugging into the mains socket
Ambient temperature (operation)	-25 °C ... 75 °C
For country-specific use in	D, A, NL, E, P
Direction of action	1L-N & N-PE
Width	63.00 mm
Height	103.50 mm
Length	79.00 mm

Protective circuit

IEC category	III
	T3
EN type	T3
Nominal voltage U_N	230 V AC
Arrester rated voltage U_C (L-N)	260 V AC
Arrester rated voltage U_C (L-PE)	260 V AC
Nominal frequency f_N	50 Hz
	60 Hz
Nominal current I_N	16 A ($\leq 30^\circ\text{C}$)
Operating effective current I_C at U_C	≤ 4 mA
Ground conductor current I_{PE}	≤ 1 μA
Nominal discharge surge current I_n (8/20) μs	3 kA
Nominal discharge surge current I_n (8/20) μs (L-N)	3 kA
Nominal discharge surge current I_n (8/20) μs (L-PE)	3 kA

Nominal discharge surge current I_n (8/20) μ s (N-PE)	3 kA
Max. discharge surge current I_{max} (8/20) μ s	5 kA (total current)
Combined surge U_{oc}	6 kV
Energy absorption symmetrical	170 J
Energy absorption, asymmetrical	85 J
Protection level U_p (L-N)	≤ 1.1 kV
Protection level U_p (L-PE)	≤ 1.5 kV
Protection level U_p (N-PE)	≤ 1.5 kV
Residual voltage at I_n , (L-N)	≤ 0.6 kV (L-N)
Residual voltage at I_n , (L-PE)	≤ 1.2 kV (L-PE)
Residual voltage at I_n , (N-PE)	≤ 0.6 kV (N-PE)
Response time t_A (L-N)	≤ 25 ns
Response time t_A (L-PE)	≤ 100 ns
Max. required back-up fuse	16 A (gL/C)
Message surge protection faulty	Optical

Non-heating apparatus connection, power supply

Connection type IN	Grounding plug
Connection type OUT	Grounding socket

Connection, protective circuit

Standards/regulations	IEC 61643-1
	DIN EN 61643-11/A11
	IEC 60884-1
	DIN VDE 0620-1

Certificates / Approvals

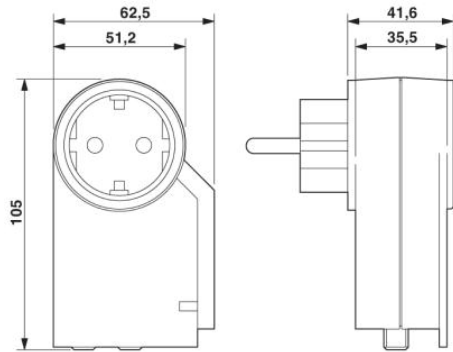


Certification

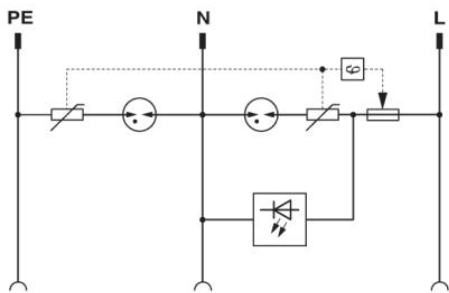
GOST

Diagrams/Drawings

Dimensioned drawing



Circuit diagram



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>



© 2010 Phoenix Contact
Technical modifications reserved;