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Extract from the online
catalog

ELR 3- 24DC/500AC-16

Order No.: 2297235

The figure shows version: ELR 3-230AC/500AC-16



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2297235>

Three-phase solid-state contactor with 24 V DC input, 16 A output
current, zero voltage switch, optionally with thermal fuse



Commercial data

GTIN (EAN)	
Note	Made-to-order
sales group	G412
Pack	1 pcs.
Customs tariff	85364900
Catalog page information	Page 171 (IF-2009)

Product notes

WEEE/RoHS-compliant since:
02/21/2008



[http://
www.download.phoenixcontact.com](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

Input data

Rated actuating voltage U_c	24 V DC
Rated actuating voltage range with reference to U_c	0.8 ... 1.25
Rated actuating current I_c	8.3 mA

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Switching threshold "0" signal, voltage	9.6 V
Switching threshold "1" signal voltage	19.2 V
Protective circuit	Protection against polarity reversal Suppressor diode
	Surge protection
Status display	Yellow LED
Indication	Red LED

Output data, load relay

Output name	AC output
Nominal output voltage	500 V AC
Nominal output voltage range	48 V AC ... 575 V AC
Periodic peak reverse voltage	1200 V
Load current	max. 16 A (see derating curve)
Leakage current	6 mA
Residual voltage	< 1.5 V
Surge current	300 A (t = 10 ms)
Max. load value	580 A ² s
Type of protection	RCV circuit
Surge voltage protection	> 575 V AC

General data

Width	147.5 mm
Height	99 mm
Depth	114.5 mm
Test voltage input/output	5 kV _{rms}
Ambient temperature (operation)	-25 °C ... 70 °C
Ambient temperature (storage/transport)	-25 °C ... 70 °C
Mounting position	Vertical (horizontal DIN rail)
Assembly instructions	Can be aligned with spacing = 40 mm
Operating mode	100% operating factor
Degree of protection	IP20
Name	Standards/regulations
Standards/regulations	DIN EN 50178
	EN 60947
Name	Power station requirements
Standards/regulations	DWR 1300 / ZXX01/DD/7080.8d

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Name	Air and creepage distances between the power circuits
Standards/regulations	DIN EN 50178
Rated surge voltage / insulation	6 kV / Basic isolation
Rated insulation voltage	500 V
Pollution degree	2
Surge voltage category	III

Certificates / Approvals



Certification

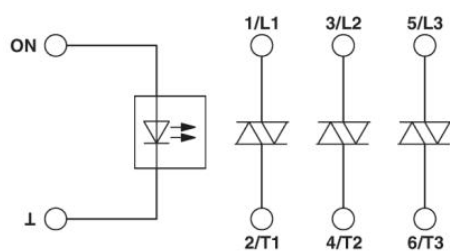
CUL Listed, UL Listed

Certifications applied for:

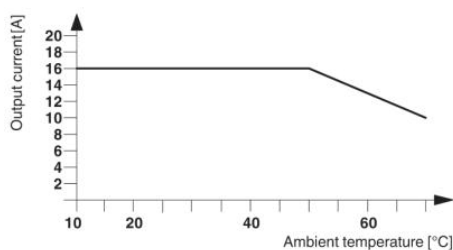
GL

Diagrams/Drawings

Block diagram



Diagram



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