

# 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>  
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Technical data	
<b>Input data</b>	
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

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 <sup>2</sup> 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 <sub>rms</sub>
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

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**

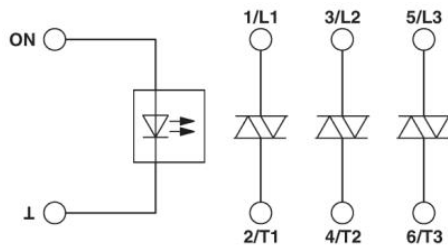


Certification CUL Listed, UL Listed

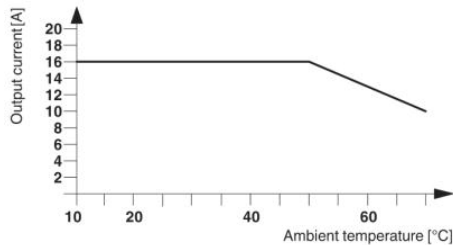
Certifications applied for: GL

**Diagrams/Drawings**

Block diagram



Diagram



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