

ELR 3- 24DC/500AC-16

Order No.: 2297235



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

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



Commercial data	
EAN	4046356175593
Pack	1 pcs.
Customs tariff	85371099
Weight/Piece	1.8017 KG
Catalog page information	Page 171 (IF-2009)

Product notes

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



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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

Switching threshold "0" signal, voltage	9.6 V
Switching threshold "1" signal voltage	19.2 V
Protective circuitry	Polarity protection Suppressor diode
	Surge protection
Status display	Yellow LED
Indication	LED red

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
Name of protection	RCV circuit
Surge voltage protection	> 575 V AC

Connection data

Type of connection	Screw connection
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	2.5 mm ²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12

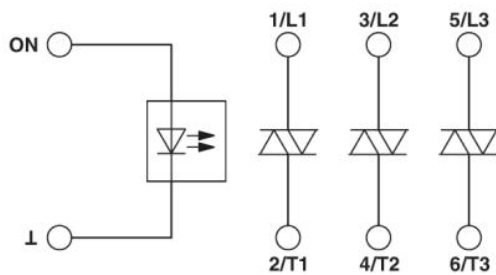
General data

Width	147.5 mm
Height	114.5 mm
Depth	99 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	Horizontal (observe derating)

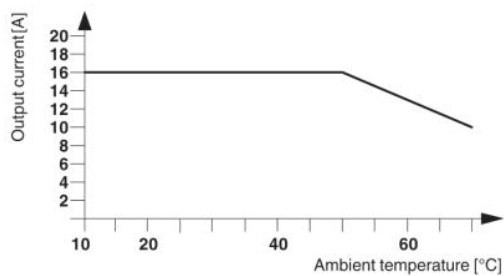
Assembly instructions	Can be aligned with spacing = 40 mm
Operating mode	100% operating factor
Degree of protection	IP20
Name	Standards/regulations
Standards/regulations	DIN EN 50178
	EN 60947
Name	Power station requirements
Standards/regulations	DWR 1300 / ZXX01/DD/7080.8d
Name	Air and creepage distances between the power circuits
Standards/regulations	DIN EN 50178
Rated surge voltage / insulation	6 kV
Rated insulation voltage	500 V
Pollution degree	2
Surge voltage category	III

Drawings

Block diagram



Diagram



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