

**ELR W3- 24DC/500AC-9I**

Order No.: 2297057

<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2297057>

"4 in 1" three-phase solid-state reversing contactor with 24 V DC input,  
9 A output current and adjustable overload switching

**Commercial data**

EAN	4046356170581
Pack	1 Pcs.
Customs tariff	85371099
Weight/Piece	0.2752 KG
Catalog page information	Page 172 (NTK-2008)

**Product notes**

WEEE/RoHS-compliant since:  
06/21/2007



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www.download.phoenixcontact.com](http://www.download.phoenixcontact.com)  
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to the user documentation. The  
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**Technical data****Input data**

Rated control supply voltage $U_s$	24 V DC
Rated control supply voltage range with reference to $U_s$	0.8 ... 1.25
Rated control supply current $I_s$	35 mA

Rated actuating voltage $U_c$	24 V DC
Rated actuating voltage range with reference to $U_c$	0.8 ... 1.25
Rated actuating current $I_c$	3 mA
Switching threshold "0" signal, voltage	9.6 V
Switching threshold "1" signal voltage	19.2 V
Switch-over frequency	Max. 2 Hz
Protective circuitry	Polarity protection Parallel polarity protection diode Surge protection
Typical response time	< 35 ms
Typical turn-off time	< 40 ms
Operating voltage display	LED green
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 ... 550 V AC
Load current	Max. 9 A (see derating curve)
Leakage current	0 mA
Residual voltage	< 0.5 V
Surge current	100 A (t = 10 ms)
Name of protection	Surge protection
Output name	Acknowledge output
Note	Confirmation 01: Floating PDT contact
Nominal output voltage	Max. 253 V AC 0% ... 100% (300 V DC)
Residual voltage	< 0.5 V

**Output data, signaling contact**

Measuring via	Current transformer for line current on L1 and L3
Current range	1 A ... 45 A

**Connection data**

Type of connection	Screw connection
Conductor cross section solid min.	0.14 mm <sup>2</sup>
Conductor cross section solid max.	2.5 mm <sup>2</sup>

Conductor cross section stranded min.	0.14 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	26
Conductor cross section AWG/kcmil max	12

#### General data

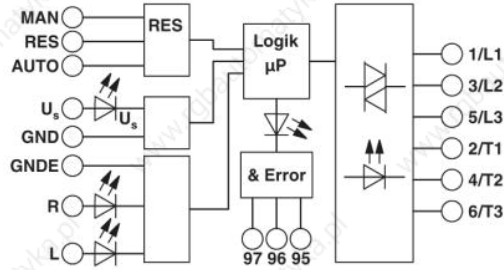
Length	99 mm
Width	22.5 mm
Height	114.5 mm
Test voltage input/output	4 kV <sub>rms</sub>
Ambient temperature (operation)	-25 °C ... 70 °C
Ambient temperature (storage/transport)	-25 °C ... 70 °C
Mounting position	optional (Observe derating)
Assembly instructions	Can be aligned with spacing = 20 mm
Operating 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

#### Certificates / Approvals

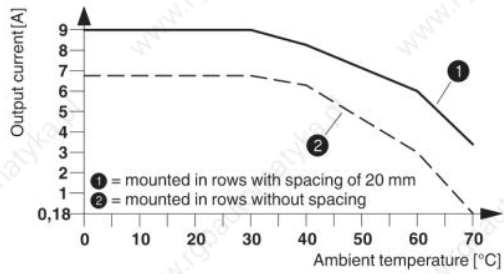
Certification	CB, CUL Listed, LR, UL Listed
Certification Ex:	PTB
Certifications applied for:	UL-EX LIS / CUL-EX LIS / GL / NV / BV

## Drawings

### Block diagram



### Diagram



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