

ELR W3-230AC/500AC-9I

Order No.: 2297060



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2297060>

"4 in 1" three-phase solid-state reversing contactor with 230 V AC input, 9 A output current and adjustable overload switching

Commercial data	
EAN	4046356170598
Pack	1 Pcs.
Customs tariff	85371099
Weight/Piece	0.2841 KG
Catalog page information	Page 172 (NTK-2008)

Product notes

WEEE/RoHS-compliant since: 10/29/2007



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Technical data

Input data	
Mains frequency	40 Hz
	100 Hz
Rated control supply voltage U_s	230 V AC
Rated control supply voltage range with reference to U_s	0.4 ... 1.1

Rated control supply current I_s	3.5 mA
Rated actuating voltage U_c	230 V AC
Rated actuating voltage range with reference to U_c	0.4 ... 1.1
Rated actuating current I_c	7 mA
Switching threshold "0" signal, voltage	44 V AC
Switching threshold "1" signal voltage	85 V AC
Switch-over frequency	Max. 2 Hz
Protective circuitry	Surge protection
Typical response time	< 35 ms
Typical turn-off time	< 80 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 ²
Conductor cross section solid max.	2.5 mm ²

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

General data

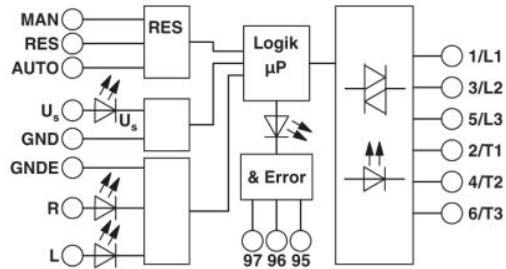
Length	99 mm
Width	22.5 mm
Height	114.5 mm
Test voltage input/output	4 kV _{rms}
Ambient temperature (operation)	-25 °C ... 70 °C
Ambient temperature (storage/transport)	-25 °C ... 70 °C
Mounting position	optional (Observe derating)
Assembly instructions	Can be aligned with spacing = 20 mm
Operating 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	4 kV
Rated insulation voltage	500 V
Pollution degree	2
Surge voltage category	III

Certificates / Approvals

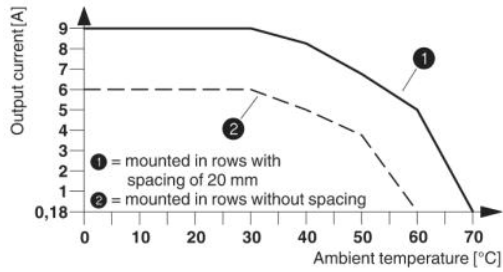
Certification	CB, CUL Listed, LR, UL Listed
Certification Ex:	PTB
Certifications applied for:	UL-EX LIS / CUL-EX LIS / GL / NV / BV

Drawings

Block diagram



Diagram



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