imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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Extract from the online catalog

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

GTIN (EAN)	4 046356 170598
sales group	G421
Pack	1 pcs.
Customs tariff	85371099
Catalog page information	Page 164 (IF-2009)

Т

Product notes

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

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

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 ${\sf I}_{\sf S}$	3.5 mA
Rated actuating voltage $U_{\mbox{\scriptsize c}}$	230 V AC
Rated actuating voltage range with reference to $\ensuremath{U_c}$	0.4 1.1
Rated actuating current ${\rm I}_{\rm c}$	7 mA
Switching threshold "0" signal, voltage	44 V AC
Switching threshold "1" signal voltage	85 V AC
Protective circuit	Surge protection
Typical response time	< 35 ms
Typical turn-off time	< 80 ms
Operating voltage display	Green LED
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 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)
Type 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	
Width	22.5 mm
Height	99 mm
Depth	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	Vertical (horizontal DIN rail)
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

DIN EN 50178

500 V

2

III 3

4 kV/safe isolation

Certificates / Approvals

Standards/regulations

Rated insulation voltage

Surge voltage category

Pollution degree

Rated surge voltage / insulation

Category in acc. with EN 954-1



Certification

Name

BV, CB, CUL Listed, GL, LR, UL Listed

Air and creepage distances between the power circuits

Certification Ex:

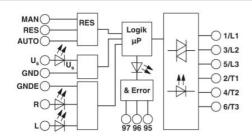
PTB

Certifications applied for:

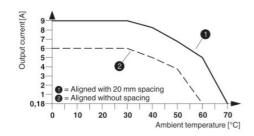
UL-EX LIS / CUL-EX LIS

Diagrams/Drawings

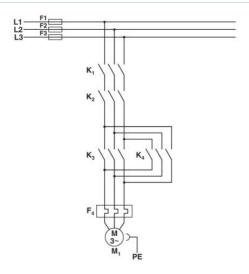
Block diagram



Diagram



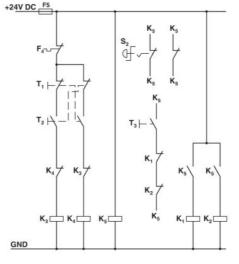
Circuit diagram



Conventional structure

Main current path for reversing contactor according to category 3 K1 + K2 = Emergency stop contactor K3 = Left contactor K4 = Right contactor

F4 = Motor protection relay



Conventional structure

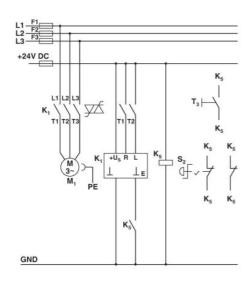
Control current path for reversing contactor according to category 3

K1 + K2 = Emergency stop contactor

- K3 = Left contactor
- K4 = Right contactor
- K5 = PSR SCP-24DC.../safety relay
- T1 = Left, T2 = Right, T3 = Reset
- S2 = Emergency stop
- F4 = Motor protection relay

Structure with CONTACTRON

Main and control current path for "4 in 1" hybrid motor starter with reversing function according to category 3 K1 = "4 in 1" hybrid motor starter with reversing function K5 = PSR SCP-24DC.../safety relay T1 = Left, T2 = Right, T3 = Reset S2 = Emergency stop



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