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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.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# ELR W3-24DC/500AC-9

Order No.: 2297316



http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2297316

Three-phase solid-state reversing contactor with 24 V DC input, 9 A output current, zero voltage switch, optionally with thermal fuse



Commercial data	
GTIN (EAN)	4 046356 175678
sales group	G421
Pack	1 pcs.
Customs tariff	85364900
Catalog page information	Page 167 (IF-2009)



## Product notes WEEE/RoHS-compliant since: 02/15/2008



#### 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

Rated actuating voltage U <sub>c</sub>	24 V DC
Rated actuating voltage range with reference to $\ensuremath{\text{U}_{\text{c}}}$	0.8 1.25
Rated actuating current I <sub>c</sub>	12.7 mA

protective circuit  protection against polarity reversal Suppressor dio Surge protection  atus display  protection  protection		
Protection against polarity reversal Suppressor dio Surge protection  Yellow LED  Red LED  AC output  AC output output voltage  AC output voltage  AC output voltage range  AS VAC 575 V AC  AC output voltage range  AC output voltage range  AC output voltage range  AS VAC 575 V AC  AC output voltage range  AS VAC 575 V AC  AC output voltage range  AS VAC 575 V AC  AC output voltage range  AS VAC 575 V AC  AC output voltage range  AS VAC 575 V AC  AC output voltage range  AS VAC 575 V AC  AC output  BA VAC 575 V AC  BA VAC	Switching threshold "0" signal, voltage	9.6 V
Surge protection atus display Yellow LED Red LED  Itput data, load relay Itput data, load relay Itput name AC output Imminal output voltage Imminal output voltage Imminal output voltage range Imminal output voltage range Italian Imminal output voltage range Italian Imminal output voltage range Italian	Switching threshold "1" signal voltage	19.2 V
Activation Red LED  Activation Red Red Led  Activa	Protective circuit	Protection against polarity reversal Suppressor diode
AC output data, load relay stput data, load relay stput name AC output solication AC output solication AC output solication and output voltage AB V AC 575 V AC solication and output voltage range AB V AC 575 V AC solication and output voltage range AB V AC 575 V AC solication and output voltage AB V AC 575 V AC solication and output voltage AB V AC 575 V AC solication and output voltage AB V AC 575 V AC solication and output voltage AB V AC 575 V AC solication AC V circuit AC V AC AC Solication and output voltage protection AC V Circuit AC V AC Solication AC V Circuit AC V AC		Surge protection
atput data, load relay  atput name AC output  brininal output voltage  brininal output voltage  and current  akage current  akage current  bridical voltage  activities  arge current  ax. 9 A (see derating curve)  activities  activitie	Status display	Yellow LED
AC output  sminal output voltage  sminal output voltage range  sminal output voltage range  48 V AC 575 V AC  sminal output voltage range  1200 V  ad current  max. 9 A (see derating curve)  akage current  sidual voltage  < 1.5 V  sige current  300 A (t = 10 ms)  ax. load value  580 A²s  pe of protection  RCV circuit  rge voltage protection  smection data  sminection method  sminection method  sminuction ross section solid min.  onductor cross section solid max.  sminuctor cross section solid max.  onductor cross section stranded min.  0.14 mm²  onductor cross section stranded min.  0.14 mm²	Indication	Red LED
priminal output voltage priminal output voltage range priodic peak reverse voltage ad current priodic peak reverse voltage and current and current and current and current and current be max. 9 A (see derating curve) and current and cu	Output data, load relay	
aminal output voltage range  48 V AC 575 V AC  1200 V  120	Output name	AC output
priodic peak reverse voltage and current a	Nominal output voltage	500 V AC
max. 9 A (see derating curve)  akage current  6 mA  sidual voltage  < 1.5 V  300 A (t = 10 ms)  ax. load value  580 A²s  pe of protection  RCV circuit  rge voltage protection  > 575 V AC  connection data  connection method  sound correction solid min.  onductor cross section solid max.  anductor cross section solid max.  2.5 mm²  conductor cross section stranded min.  0.14 mm²  conductor cross section stranded min.  0.14 mm²	Nominal output voltage range	48 V AC 575 V AC
akage current  sidual voltage  < 1.5 V  ax. load value  pe of protection  RCV circuit  arge voltage protection  somection data  connection method  sonductor cross section solid min.  anductor cross section solid max.  anductor cross section stranded min.  6 mA  < 1.5 V  300 A (t = 10 ms)  580 A²s  RCV circuit  > 575 V AC   anductor cross section  0.14 mm²  0.14 mm²  0.14 mm²  0.14 mm²	Periodic peak reverse voltage	1200 V
rige current  300 A (t = 10 ms)	Load current	max. 9 A (see derating curve)
ax. load value 580 A²s  pe of protection RCV circuit  rge voltage protection > 575 V AC   Innection data  Innection method Screw connection  Inductor cross section solid min. 0.14 mm²  Inductor cross section solid max. 2.5 mm²  Inductor cross section stranded min. 0.14 mm²	Leakage current	6 mA
pe of protection RCV circuit rge voltage protection > 575 V AC  pannection data connection method Screw connection conductor cross section solid min. conductor cross section solid max. conductor cross section solid max. conductor cross section stranded min.  0.14 mm² conductor cross section stranded min.  0.14 mm²	Residual voltage	< 1.5 V
pe of protection RCV circuit  rige voltage protection > 575 V AC   Innection data  Innection method Screw connection  Inductor cross section solid min. 0.14 mm²  Inductor cross section solid max. 2.5 mm²  Inductor cross section stranded min. 0.14 mm²	Surge current	300 A (t = 10 ms)
rge voltage protection > 575 V AC  Innection data  Innection method Screw connection Inductor cross section solid min. 0.14 mm² Inductor cross section solid max. 2.5 mm² Inductor cross section stranded min. 0.14 mm²	Max. load value	580 A <sup>2</sup> s
onnection data  onnection method  onductor cross section solid min.  onductor cross section solid max.  onductor cross section solid max.  2.5 mm²  onductor cross section stranded min.  0.14 mm²	Type of protection	RCV circuit
onnection method  Screw connection  onductor cross section solid min.  onductor cross section solid max.  2.5 mm²  onductor cross section stranded min.  0.14 mm²	Surge voltage protection	> 575 V AC
onductor cross section solid min.  0.14 mm²  2.5 mm²  onductor cross section stranded min.  0.14 mm²	Connection data	
onductor cross section solid max.  2.5 mm²  onductor cross section stranded min.  0.14 mm²	Connection method	Screw connection
onductor cross section stranded min.  0.14 mm²	Conductor cross section solid min.	0.14 mm²
	Conductor cross section solid max.	2.5 mm²
	Conductor cross section stranded min.	0.14 mm²
onductor cross section stranded max. 2.5 mm <sup>2</sup>	Conductor cross section stranded max.	2.5 mm²
onductor cross section AWG/kcmil min. 26	Conductor cross section AWG/kcmil min.	26
enductor cross section AWG/kcmil max 12	Conductor cross section AWG/kcmil max	12

#### General data

Width	67.5 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 = 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 / Basic isolation
Rated insulation voltage	500 V
Pollution degree	2
Surge voltage category	III

### **Certificates / Approvals**



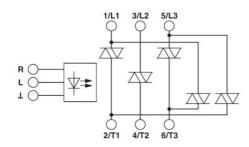


Certification CUL Listed, UL Listed

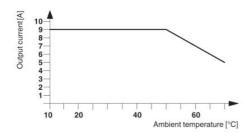
Certifications applied for: GL

### Diagrams/Drawings

#### Block diagram



### Diagram



#### Address

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