

ELR W3- 24DC/500AC- 0,4I - Hybrid motor starter

2297824

<https://www.phoenixcontact.com/us/products/2297824>



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"4 in 1" three-phase solid-state reversing contactor with 24 V DC input, 0.4 A output current and adjustable overload shutdown

Commercial data

Item number	2297824
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	DK7422
GTIN	4046356361965
Weight per piece (including packing)	270.8 g
Weight per piece (excluding packing)	247.3 g
Country of origin	DE

Technical data

Product properties

Product type	Hybrid motor starters
Product family	CONTACTRON
Operating mode	100% operating factor

Insulation characteristics: Air clearances and creepage distances between the power circuits

Insulation	safe isolation
Overvoltage category	III
Degree of pollution	2

Electrical properties

Number of phases	3
Service life electrical	3×10^7 cycles
Maximum power dissipation for nominal condition	1.5 W
Reversing frequency	≤ 2 Hz
Maximum power dissipation	1.5 W
Minimum power dissipation	1.1 W

Air clearances and creepage distances between the power circuits

Rated insulation voltage	500 V
Rated surge voltage	6 kV

Supply

Rated control circuit supply voltage U_S	24 V DC
Control supply voltage range	19.2 V DC ... 30 V DC
Rated control supply current I_S	40 mA
Protective circuit	Surge protection Reverse polarity protection

Input data

Control

Input name	Control input right/left
Rated actuating voltage U_C	24 V DC
Triggering voltage range	19.2 V DC ... 30 V DC
Rated actuating current I_C	5 mA
Switching threshold	9.6 V ("0" signal) 19.2 V ("1" signal)
Typical response time	< 35 ms
Typical turn-off time	< 40 ms

Output data

AC output

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Rated operating voltage U_e	500 V AC
Operating voltage range	42 V AC ... 550 V AC
Mains frequency	50/60 Hz
Load current range	120 mA ... 400 mA

Acknowledge output

Note	Confirmation 01: floating changeover contact
Contact switching type	1 changeover contact
Switching capacity in accordance with IEC 60947-5-1	3 A (230 V, AC15) 2 A (24 V (DC13))

Connection data

Control circuits

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross-section rigid	0.2 mm ² ... 2.5 mm ²
Conductor cross-section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross-section AWG	24 ... 14

Load circuit

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross-section rigid	0.2 mm ² ... 2.5 mm ²
Conductor cross-section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross-section AWG	24 ... 14

Signaling

Status display	LED (yellow)
Operating voltage display	Green LED
Error indication	Red LED

Dimensions

Width	22.5 mm
Height	107 mm
Depth	114 mm

Material specifications

Flammability rating according to UL 94 (Housing)	V0 (Housing)
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 70 °C

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Ambient temperature (storage/transport)

-40 °C ... 80 °C

Approvals

ATEX

Identification	Ex II (2) G
	Ex II (2) D
Certificate	PTB 07 ATEX 3145

UL approval

Certificate	NLDX.E228652
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Standards and regulations

Standards/regulations

Standards/regulations	DIN EN 50178
	EN 60947

Power station requirements

Standards/regulations	DWR 1300/ZXX01/DD/7080.8d
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Air clearances and creepage distances between the power circuits

Standards/regulations	DIN EN 50178
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Mounting

Mounting type	DIN rail mounting
Assembly note	can be aligned with spacing = 20 mm
Mounting position	Vertical (horizontal DIN rail)

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Environmental product compliance

China RoHS

Environment friendly use period (EFUP)	EFUP-50
An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.	

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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