

Solid-state contactor - ELR 1- 24DC/600AC-30 - 2297154

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Single-phase solid-state contactor, input voltage: 24 V AC, output current: 30 A, zero voltage switch

Product Features

- High switching frequency
- Wear and bounce-free
- 24 V DC and 230 V AC input voltage versions



Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	263.6 g
Custom tariff number	85362010
Country of origin	Malta

Technical data

Input data

Input name	Device supply
Input voltage range	4 V DC ... 32 V DC
Typical input current at U_N	approx. 12 mA
Switching threshold	≤ 1 V DC ("0" signal) ≥ 4 V DC ("1" signal)
Transmission frequency	25 Hz
Operating voltage display	Green LED

Output data load output

Operating voltage range	42 V AC ... 660 V AC (45/65 Hz)
Load current range	150 mA ... 30 A (see to derating)

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Technical data

Output data load output

Rated operating current at AC-51	30 A
Rated operating current at AC-53a	15 A
Leakage current	< 3 mA (In off state)
Residual voltage	< 1.6 V
Surge current	400 A (t = 10 ms)
Protective circuit	RCV circuit RCV circuit

Connection data, control circuit

Connection name	Control circuits
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M4
Conductor cross section solid	0.5 mm ² ... 2.5 mm ²
Conductor cross section flexible	0.5 mm ² ... 2.5 mm ²
Conductor cross section AWG	20 ... 14

Connection data load circuit

Connection name	Load circuit
Connection method	Screw connection
Stripping length	8 mm
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Conductor cross section flexible	0.5 mm ² ... 4 mm ²
Conductor cross section AWG	20 ... 12

General

Test voltage input/output	4 kV _{rms}
Mounting position	Vertical (horizontal DIN rail)
Assembly instructions	Can be aligned with ≥ 22.5 mm spacing
Designation	Standards/regulations
Standards/regulations	EN 61000-4-2
	EN 61000-4-3
	EN 61000-4-4
	EN 61000-4-5
	EN 61000-4-6
	EN 55011

Dimensions

Width	22.5 mm
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Technical data

Dimensions

Height	103 mm
Depth	103 mm

Ambient conditions

Ambient temperature (operation)	-30 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C

Standards and Regulations

Connection in acc. with standard	CUL
Designation	Standards/regulations
Standards/regulations	EN 61000-4-2
	EN 61000-4-3
	EN 61000-4-4
	EN 61000-4-5
	EN 61000-4-6
	EN 55011

Classifications

eCl@ss

eCl@ss 4.0	27371102
eCl@ss 4.1	27371102
eCl@ss 5.0	27371601
eCl@ss 5.1	27371601
eCl@ss 6.0	27371601
eCl@ss 7.0	27371601
eCl@ss 8.0	27371601
eCl@ss 9.0	27371601

ETIM

ETIM 2.0	EC000066
ETIM 3.0	EC000066
ETIM 4.0	EC000066
ETIM 5.0	EC002055

UNSPSC

UNSPSC 6.01	30211915
UNSPSC 7.0901	39121514
UNSPSC 11	39121514

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Classifications

UNSPSC

UNSPSC 12.01	39121514
UNSPSC 13.2	39121514

Approvals

Approvals


Approvals

UL Recognized / cUL Recognized / EAC / EAC / cULus Recognized

Ex Approvals

Approvals submitted


Approval details

UL Recognized 

cUL Recognized 

EAC

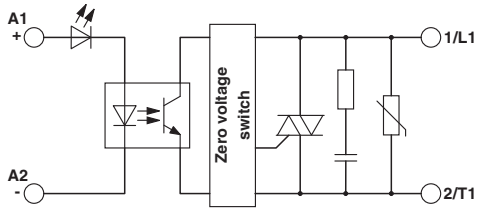
EAC

cULus Recognized 

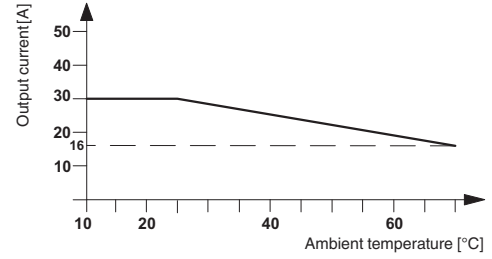
Drawings

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Block diagram



Diagram



Mouser Electronics

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