

Solid-state contactor - ELR 1-230AC/600AC-50 - 2297183

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Single-phase solid-state contactor, input voltage: 230 V AC, output current: 50 A, zero voltage switch

Why buy this product

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



Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 132008
Weight per Piece (excluding packing)	420.6 g
Custom tariff number	85362010
Country of origin	Malta

Technical data

Dimensions

Width	45 mm
Height	103 mm
Depth	103 mm

Ambient conditions

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

Input data

Input name	Device supply
Input voltage range	24 V AC ... 275 V AC
Typical input current at U_N	approx. 17 mA
Switching threshold "0" signal, voltage	≤ 6 V AC

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Technical data

Input data

Switching threshold "1" signal voltage	≥ 22 V AC
Transmission frequency	6 Hz
Operating voltage display	Green LED

Output data

Nominal output voltage range	42 V AC ... 660 V AC (45/65 Hz)
Periodic peak reverse voltage	1200 V
Mains frequency	45 Hz
	65 Hz
Rated operating current at AC-51	50 A
Rated operating current at AC-53a	30 A
Leakage current	< 3 mA (In off state)
Residual voltage	< 1.6 V
Surge current	1900 A (t = 10 ms)
Max. load value	18000 A ² s
Type of protection	RCV circuit
Protective circuit/component	RCV circuit

Connection data

Connection method	Screw connection
Stripping length	8 mm
Conductor cross section solid min.	0.5 mm ²
Conductor cross section solid max.	4 mm ²
Conductor cross section flexible min.	0.5 mm ²
Conductor cross section flexible max.	4 mm ²
Conductor cross section AWG min.	20
Conductor cross section AWG max.	14
Screw thread	M3

General

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

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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

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
UNSPSC 12.01	39121514
UNSPSC 13.2	39121514

Approvals

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

Ex Approvals

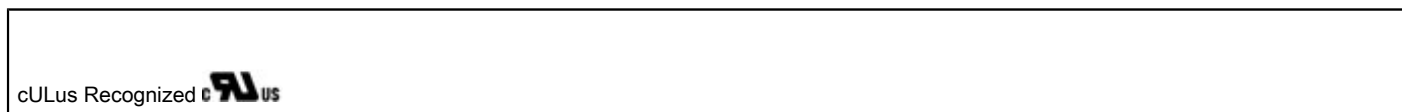
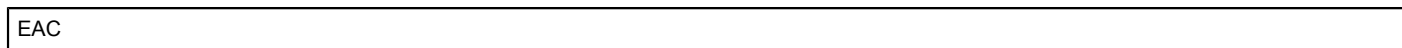
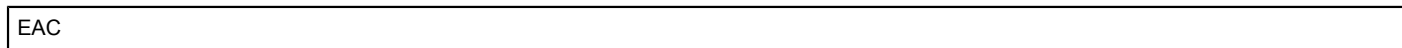
Approvals submitted

Approval details

UL Recognized

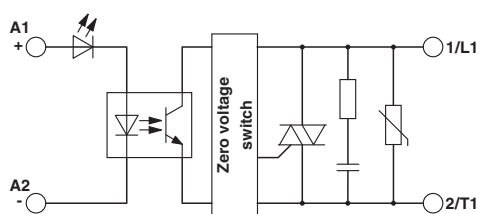
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Drawings

Block diagram



Diagram

