

ELR 1-230AC/600AC-20 - Solid-state contactor



2297141

<https://www.phoenixcontact.com/us/products/2297141>

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Single-phase solid-state contactor, input voltage: 230 V AC, output current: 20 A, zero voltage switch

Your advantages

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

Commercial data

Item number	2297141
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C471
Product key	CK7122
Catalog page	Page 48 (C-5-2017)
GTIN	4046356132015
Weight per piece (including packing)	258.8 g
Weight per piece (excluding packing)	254.7 g
Customs tariff number	85362010
Country of origin	MT

Technical data

Product properties

Product type	Solid-state contactor
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Electrical properties

Number of phases	1
Mains type	1-phase
Test voltage (Input/output)	4 kV _{rms} (50 Hz, 60 s)

Input data

Control

Input name	Control input
Rated actuating voltage U_C	230 V AC
Triggering voltage range	24 V AC ... 275 V AC
Rated actuating current I_C	approx. 17 mA
Switching threshold	≤ 6 V AC ("0" signal) ≥ 22 V AC ("1" signal)
Operating voltage display	Green LED
Transmission frequency	6 Hz

Output data

Load output

Operating voltage range	42 V AC ... 660 V AC
Rated operating current at AC-51	20 A
Rated operating current at AC-53a	5 A
Peak offstate voltage	1200 V
Mains frequency	45 Hz 65 Hz
Load current range	350 mA ... 20 A (see to derating)
Leakage current	< 3 mA (In off state)
Residual voltage	< 1.6 V
Surge current	250 A (t = 10 ms)
Max. load value	525 A ² s
Protective circuit	RCV circuit
Phase angle cos phi min	0.5

Connection data

Control circuits

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M4

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Conductor cross section rigid	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

Load circuit

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M4
Conductor cross section rigid	0.5 mm ² ... 4 mm ²
Conductor cross section flexible	0.5 mm ² ... 4 mm ²
Conductor cross section AWG	20 ... 12

Signaling

Operating voltage display	Green LED
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Dimensions

Width	22.5 mm
Height	103 mm
Depth	103 mm

Material specifications

Color	green (RAL 6021)
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Environmental and real-life conditions

Ambient conditions

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

Standards and regulations

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

Mounting

Mounting type	DIN rail mounting
Assembly instructions	Can be aligned with ≥ 22.5 mm spacing
Mounting position	Vertical (horizontal DIN rail)

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Classifications

ECLASS

ECLASS-11.0

27371014

ETIM

ETIM 9.0

EC002055

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Environmental product compliance

China RoHS	Environmentally Friendly Use Period = 50 years For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"
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