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ELR 1-SC-230AC/600AC-30 - Solid-state contactor

1032922

https://www.phoenixcontact.com/pc/products/1032922

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Single-phase solid-state contactor, input voltage: 230 V AC, output current: 30 A, zero voltage switch

Commercial data

Item number	1032922
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	DK6831
Catalog page	Page 49 (C-5-2019)
GTIN	4055626536477
Weight per piece (including packing)	265 g
Weight per piece (excluding packing)	259 g
Customs tariff number	85364900
Country of origin	MT

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Technical data

Product properties

Product type	Solid-state contactor

Electrical properties

Number of phases	1
Maximum power dissipation for nominal condition	28 W
Mains type	1-phase

Input data

Control

Input name	Control input
Rated actuating voltage U_C	230 V AC
Triggering voltage range	24 V AC ... 275 V AC
	24 V DC ... 190 V DC
Rated actuating current I_C	approx. 17 mA
Switching threshold	≤ 5 V AC/DC (“0” signal)
	≥ 20 V AC/DC (“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	30 A
Rated operating current at AC-53a	15 A (T_A = 25 °C)
	5 A (T_A = 40 °C)
Peak offstate voltage	1200 V
Mains frequency	45 Hz
	65 Hz
Load current range	250 mA ... 30 A (see to derating)
Leakage current	< 3 mA (In off state)
Residual voltage	< 1 V
Surge current	600 A (t = 10 ms)
Max. load value	1800 A^2s
Protective circuit	Varistor
Phase angle cos phi min	0.5

Connection data

Control circuits

Connection method	Screw connection

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Stripping length	8 mm
Screw thread	M3
Conductor cross section rigid	0.5 mm² ... 2.5 mm²
Conductor cross section flexible	0.5 mm² ... 2.5 mm²
Conductor cross section AWG	18 ... 12

Load circuit

Connection method	Screw connection
Stripping length	12 mm
Screw thread	M4
Conductor cross section rigid	2.5 mm² ... 6 mm²
Conductor cross section flexible	1 mm² ... 4 mm²
Conductor cross section AWG	14 ... 10

Protective conductor connection

Connection method	Ring cable lug
Screw thread	M5
Tightening torque	1.5 Nm

Signaling

Operating voltage display	Green LED

Dimensions

Width	18 mm
Height	110 mm
Depth	103 mm

Material specifications

Color	gray (RAL 7042)

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 55011

Mounting

Mounting type	DIN rail mounting

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

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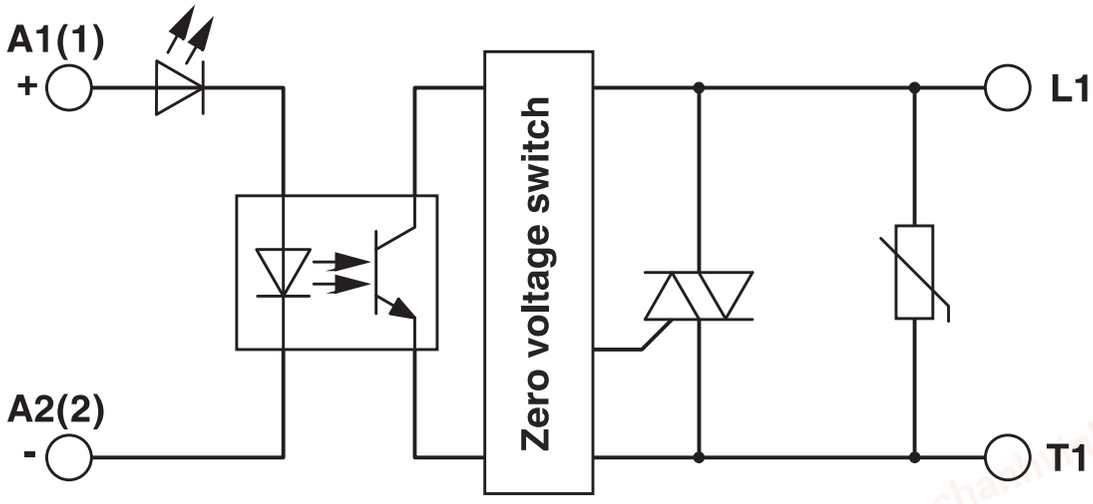
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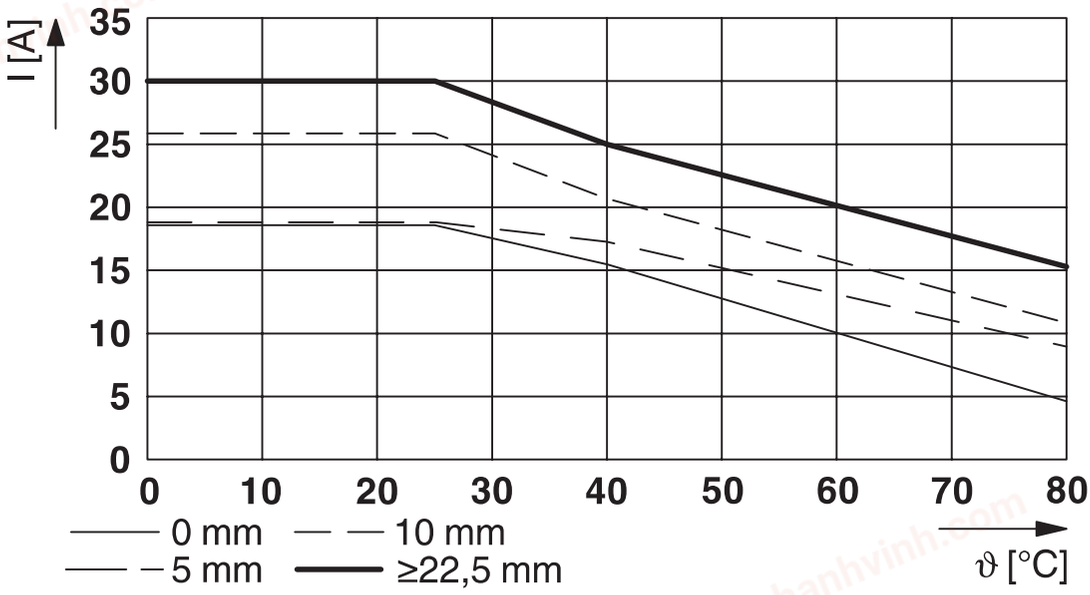
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Drawings

Block diagram



Diagram



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/pc/products/1032922

EAC
Approval ID: RU C-DE*.B.0080120

UL Listed
Approval ID: FILE E 323771

cUL Listed
Approval ID: FILE E 323771

cULus Listed

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Classifications

ECLASS

ECLASS-11.0	27371003
ECLASS-12.0	27371003
ECLASS-13.0	27371003

ETIM

ETIM 9.0	EC000066

UNSPSC

UNSPSC 21.0	39122300

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

China RoHS

Environment friendly use period (EFUP)	EFUP-25
	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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