

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



1032921

<https://www.phoenixcontact.com/de/produkte/1032921>

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

Commercial Data

Item number	1032921
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	G1 - Relais
Product Key	CK7123
Catalog Page	Page 49 (C-5-2019)
GTIN	4055626537924
Weight per Piece (including packing)	261,7 g
Weight per Piece (excluding packing)	256 g
Customs tariff number	85364190
Country of origin	MT

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Technical Data

Product properties

Product type	Solid-state contactor
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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	24 V DC
Triggering voltage range	4 V DC ... 32 V DC
Rated actuating current I_C	approx. 12 mA
Switching threshold	≤ 1 V DC ("0" signal) ≥ 4 V DC ("1" signal)
Operating voltage display	Green LED
Transmission frequency	25 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 ² s
Protective circuit	Varistor
Phase angle $\cos \phi$ min	0.5

Connection data

Control circuits

Connection method	Screw connection
Stripping length	8 mm

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Screw thread	M3
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	18 ... 12

Load circuit

Connection method	Screw connection
Stripping length	12 mm
Screw thread	M4
Conductor cross section rigid	2.5 mm ² ... 6 mm ²
Conductor cross section flexible	1 mm ² ... 4 mm ²
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
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Dimensions

Width	18 mm
Height	110 mm
Depth	103 mm

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

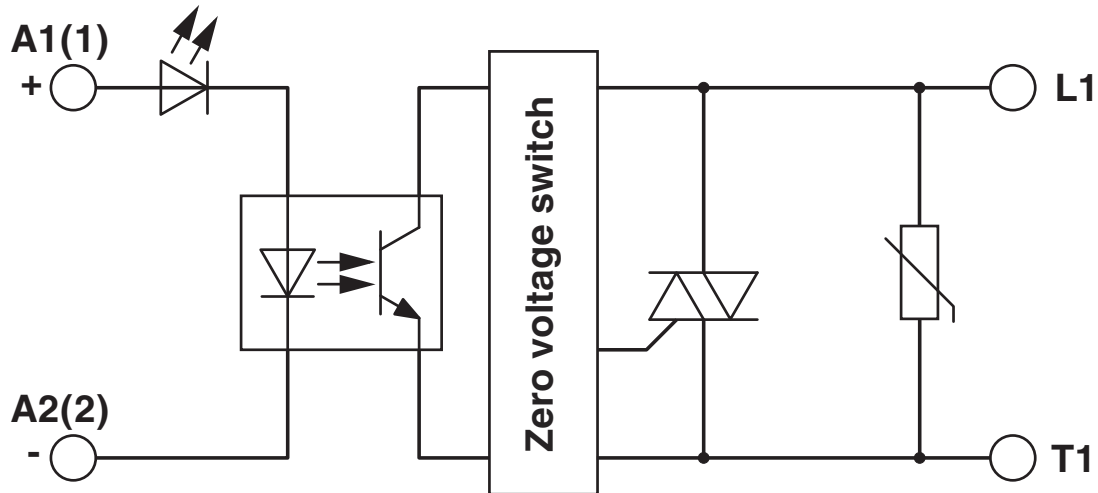
Standards/regulations	EN 61000-4-2
	EN 61000-4-3
	EN 61000-4-4
	EN 61000-4-5
	EN 55011

Mounting

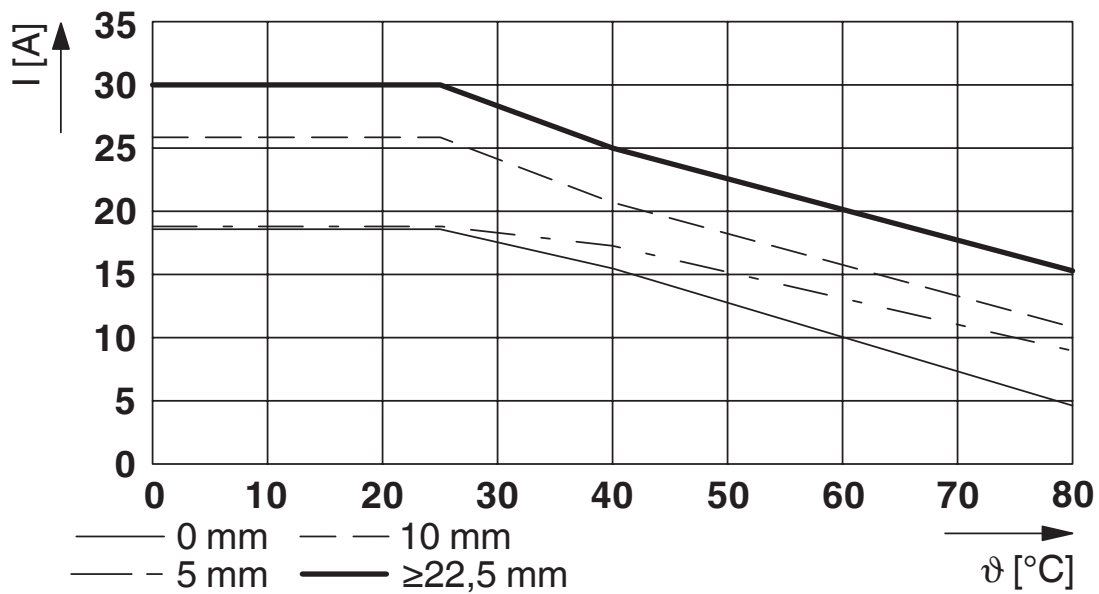
Mounting type	DIN rail mounting
Assembly instructions	Can be aligned with ≥ 22.5 mm spacing
Mounting position	Vertical (horizontal DIN rail)

Drawings

Block diagram



Diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/de/produkte/1032921>



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 8.0	EC002055
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UNSPSC

UNSPSC 21.0	39122300
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Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 25; For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"
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