

# ELR 1-SC-24DC/600AC-50 - Solid-state contactor



1032926

<https://www.phoenixcontact.com/de/produkte/1032926>

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Single-phase solid-state contactor, input voltage: 24 V DC, output current: 50 A, zero voltage switch

## Commercial Data

Item number	1032926
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	G1 - Relais
Product Key	CK7124
Catalog Page	Page 49 (C-5-2019)
GTIN	4055626536897
Weight per Piece (including packing)	519,6 g
Weight per Piece (excluding packing)	519,6 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	58 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	$\leq 1$ V DC ("0" signal) $\geq 4$ 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	50 A
Rated operating current at AC-53a	30 A ( $T_A = 25$ °C) 16 A ( $T_A = 40$ °C)
Peak offstate voltage	1200 V
Mains frequency	45 Hz 65 Hz
Load current range	500 mA ... 50 A (see to derating)
Leakage current	< 3 mA (In off state)
Residual voltage	< 1 V
Surge current	1900 A ( $t = 10$ ms)
Max. load value	18000 A <sup>2</sup> 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 <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section flexible	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section AWG	18 ... 12

## Load circuit

Connection method	Screw connection
Stripping length	11 mm
Screw thread	M4
Conductor cross section rigid	2.5 mm <sup>2</sup> ... 25 mm <sup>2</sup>
Conductor cross section flexible	2.5 mm <sup>2</sup> ... 16 mm <sup>2</sup>
Conductor cross section AWG	14 ... 6

## 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	35 mm
Height	110 mm
Depth	141 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

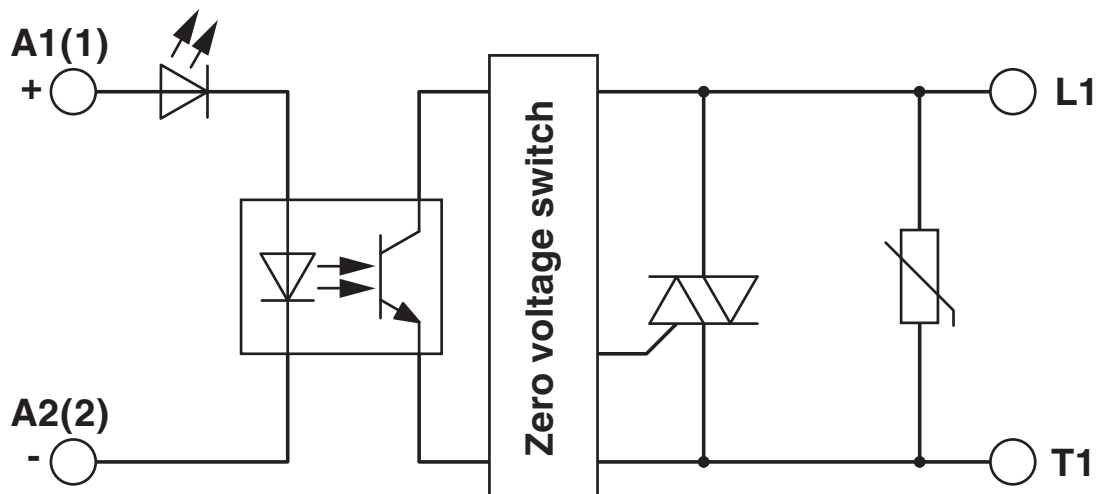
Standards/regulations	EN 61000-4-2
	EN 61000-4-3
	EN 61000-4-4
	EN 61000-4-5
	EN 55011

## Mounting

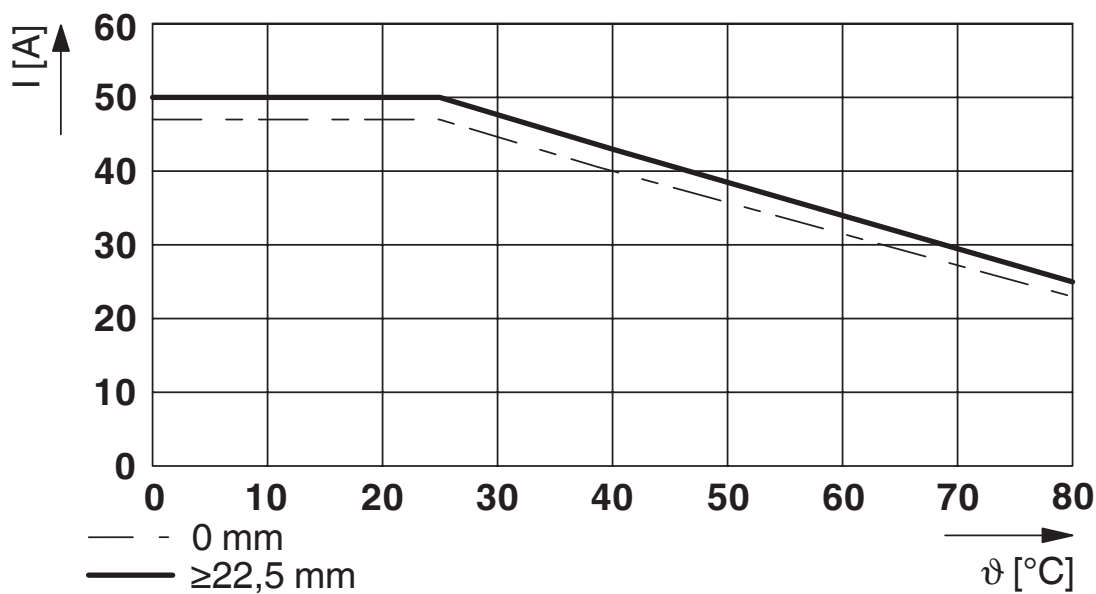
Mounting type	DIN rail mounting
Assembly instructions	Can be aligned with $\geq 22.5$ mm spacing
Mounting position	Vertical (horizontal DIN rail)

## Drawings

Block diagram



Diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/de/produkte/1032926>



**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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