

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



1032926

<https://www.phoenixcontact.com/us/products/1032926>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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	C471
Product key	DK6831
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

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



1032926

<https://www.phoenixcontact.com/us/products/1032926>

## Technical data

### Product properties

Product type	Solid-state contactor
--------------	-----------------------

### 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

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



1032926

<https://www.phoenixcontact.com/us/products/1032926>

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	11 mm
Screw thread	M4
Conductor cross section rigid	2.5 mm² ... 25 mm²
Conductor cross section flexible	2.5 mm² ... 16 mm²
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
---------------------------	-----------

## Dimensions

Width	35 mm
Height	110 mm
Depth	141 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
Assembly note	can be aligned with ≥ 22.5 mm spacing

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



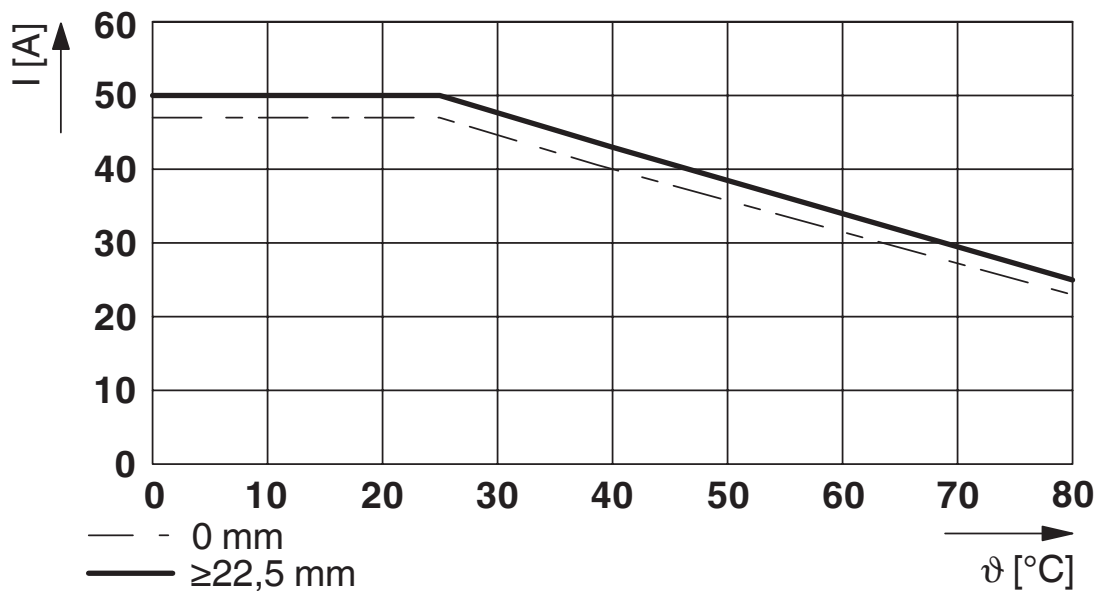
1032926

<https://www.phoenixcontact.com/us/products/1032926>

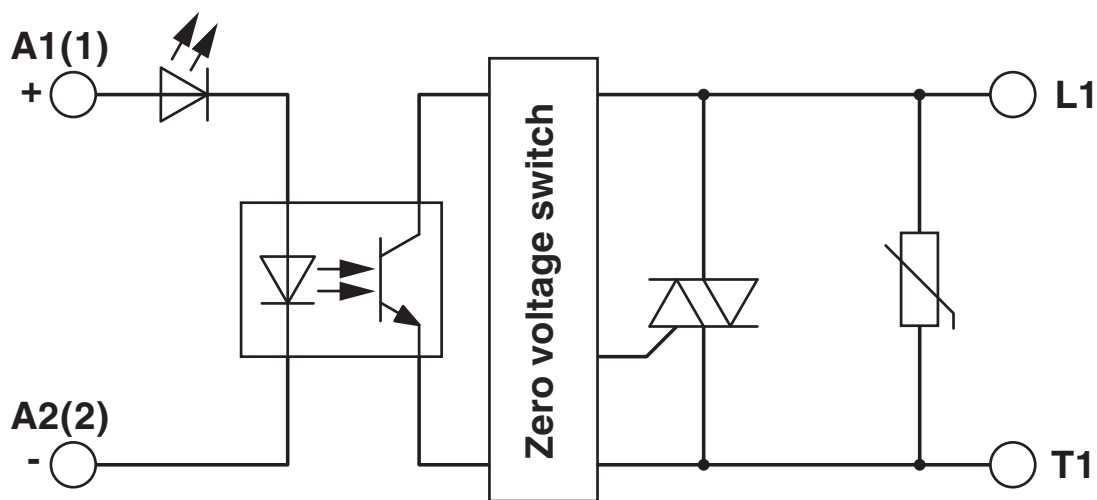
Mounting position	Vertical (horizontal DIN rail)
-------------------	--------------------------------

## Drawings

Diagram



Block diagram



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




1032926


<https://www.phoenixcontact.com/us/products/1032926>

## Approvals


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



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



**UL Listed**  
Approval ID: FILE E 323771



**cUL Listed**  
Approval ID: FILE E 323771

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



1032926

<https://www.phoenixcontact.com/us/products/1032926>

## Classifications

### ECLASS

ECLASS-13.0	27371003
-------------	----------

### ETIM

ETIM 9.0	EC000066
----------	----------

### UNSPSC

UNSPSC 21.0	39122300
-------------	----------

## 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%
-------------------------------------	----------------------------