

ELR 1-SC-24DC/600AC-20 - Solid-state contactor



1032919

<https://www.phoenixcontact.com/us/products/1032919>

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Single-phase solid-state contactor, input voltage: 24 V DC, output current: 20 A, zero voltage switch

Commercial data

Item number	1032919
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C471
Product key	CK7122
Catalog page	Page 48 (C-5-2019)
GTIN	4055626537726
Weight per piece (including packing)	260.5 g
Weight per piece (excluding packing)	255 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	20 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	20 A
Rated operating current at AC-53a	5 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	150 mA ... 20 A (see to derating)
Leakage current	< 3 mA (In off state)
Residual voltage	< 1 V
Surge current	325 A ($t = 10$ ms)
Max. load value	525 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

Material specifications

Color	gray (RAL 7042)
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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 55011

Mounting

Mounting type	DIN rail mounting
Assembly instructions	Can be aligned with ≥ 22.5 mm spacing

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Mounting position

Vertical (horizontal DIN rail)

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Classifications

ECLASS

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

ETIM

ETIM 9.0	EC000066
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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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