

2900574

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Hybrid motor starter for reversing 3~ AC motors up to 500 V AC and 2.4 A output current, with 24 V DC control voltage, adjustable overload shutdown, and screw connection.

## Your advantages

- 22.5 mm wide
- · Space saving
- · Long service life
- · Reduction in wiring
- · 3-phase loop bridges
- · Adjustable current for bimetal function
- · Low-wear switching

### Commercial data

Item number	2900574
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C470
Product key	CK7422
Catalog page	Page 29 (C-5-2019)
GTIN	4046356527866
Weight per piece (including packing)	295.4 g
Weight per piece (excluding packing)	218.11 g
Customs tariff number	85371098
Country of origin	DE



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## Technical data

## Product properties

Product type	Hybrid motor starters
Product family	CONTACTRON
Operating mode	100% operating factor

## Electrical properties

Number of phases	3
Motor starter type	Reversing starter
Maximum power dissipation for nominal condition	2.2 W
Switching frequency	≤ 2 Hz (Load-dependent)
Maximum power dissipation	3.3 W
Minimum power dissipation	1.1 W
Coordination type	1

#### Supply

Rated control circuit supply voltage U <sub>S</sub>	24 V DC
Control supply voltage range	19.2 V DC 30 V DC
Rated control supply current I <sub>S</sub>	40 mA
Protective circuit	Surge protection
	Reverse polarity protection

#### Insulation characteristics

Rated insulation voltage	500 V
Rated surge voltage	6 kV
Overvoltage category	III
Degree of pollution	2
Insulation characteristics between the control input and control supply voltage, and auxiliary circuit to the main circuit	Safe isolation (IEC 60947-1) at operating voltage $\leq$ 300 V AC (e. g., 230/400 V AC, 277/480 V AC)
	Basic insulation (IEC 60947-1) at operating voltage 300 V AC 500 V AC
Isolation characteristics between the control input and control supply voltage to auxiliary circuit	Safe isolation (IEC 60947-1) in the auxiliary circuit ≤ 300 V AC

## Input data

#### Control

Control	
Input name	Control input right/left
Rated actuating voltage $U_C$	24 V DC
Triggering voltage range	19.2 V DC 30 V DC
Rated actuating current I <sub>C</sub>	5 mA (Input type 1)
Switching threshold	9.6 V ("0" signal)
	19.2 V ("1" signal)
Typical turn-off time	< 30 ms
Protective circuit	Reverse polarity protection



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## Output data

#### AC output

Rated operating voltage $U_{\rm e}$	500 V AC
Operating voltage range	42 V AC 550 V AC
Rated operating current I <sub>e</sub>	2.4 A (AC-51)
	2.4 A (AC-53a)
Mains frequency	50/60 Hz
Load current range	180 mA 2.4 A (see to derating)
Trigger characteristic in acc. with IEC 60947-4-2	Class 10A
Cooling time	20 min. (for auto reset)
Leakage current	0 mA
Protective circuit	Surge protection

### Acknowledge output

Note	Confirmation: floating change-over contact, signal contact
Contact switching type	1 changeover contact
Switching capacity in accordance with IEC 60947-5-1	3 A (230 V, AC15)
	2 A (24 V, DC13)

### Connection data

### Control circuits

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section rigid	0.2 mm² 2.5 mm²
Conductor cross section flexible	0.2 mm <sup>2</sup> 2.5 mm <sup>2</sup>
Conductor cross section AWG	24 14
Tightening torque	0.5 Nm 0.6 Nm
	5 lb <sub>F</sub> in 7 lb <sub>F</sub> in.

### Load circuit

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section rigid	0.2 mm² 2.5 mm²
Conductor cross section flexible	0.2 mm² 2.5 mm²
Conductor cross section AWG	24 14
Tightening torque	0.5 Nm 0.6 Nm
	5 lb <sub>r</sub> in 7 lb <sub>r</sub> in.

## Signaling

Status display	Yellow LED
Operating voltage display	Green LED



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Error indication	Red LED
nensions	
Width	22.5 mm
Height	107 mm
Depth	114 mm
aterial specifications	
Flammability rating according to UL 94	V0 (Housing)
vironmental and real-life conditions	
Ambient conditions	
Degree of protection	IP20
Ambient temperature (operation)	-25 °C 70 °C (observe derating)
Ambient temperature (storage/transport)	-40 °C 80 °C
Altitude	≤ 2000 m
provals	
' UKCA	
Certificate	UKCA-compliant
Continuate	Orto, Compilant
UL approval	
Certificate	NLDX.E228652
JL data	
SCCR	100 kA (500 V AC (fuse: 30 A class CC/30 A class J (high fault)
	5 kA (500 V AC (fuse: 20 A RK5 (standard fault)))
FLA	2.4 A (500 V AC)
Group installation	20 A (class RK5, SCCR 5kA, #24 - 14 AWG max. solid and stranded)
	30 A (class CC or J, SCCR 100kA, #24 - 14 AWG max, solid ar stranded)
Category code	NLDX / NRNT
andards and regulations	
Standards/regulations	
Standards/regulations	IEC 60947-1
	IEC 60947-4-2
punting	
Mounting type	DIN rail mounting
Assembly instructions	alignable, for spacing see derating
Mounting position	vertical (horizontal DIN rail, motor output below)



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# Classifications

UNSPSC 21.0

### **ECLASS**

ECLASS-11.0	27370905
ECLASS-12.0	27370905
ECLASS-13.0	27370905
ETIM	
ETIM 9.0	EC001037
UNSPSC	

25173900



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# Environmental product compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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