

2905159

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Networkable hybrid motor starter for reversing 3~ AC motors up to 500 V AC, output current: 3 A, adjustable overload shutdown, and screw connection, DIN rail connector provided.

## Your advantages

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

#### Commercial data

Item number	2905159
Packing unit	1 pc
Sales key	C474
Product key	DK7442
GTIN	4046356920131
Weight per piece (including packing)	304.3 g
Weight per piece (excluding packing)	282.7 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
Switching frequency	≤ 2 Hz (Load-dependent)
Maximum power dissipation for nominal condition	2.5 W
Switching frequency	≤ 2 Hz (Load-dependent)
Maximum power dissipation	4.1 W
Minimum power dissipation	0.88 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>	60 mA
Protective circuit	Surge protection
	Reverse polarity protection; Parallel polarity protection diode

#### Insulation characteristics

Rated insulation voltage	550 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)
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

#### Emergency tripping

Operate threshold	> 33 A
Response time	< 0.5 s

## 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>	3 A (AC-51)
	3 A (AC-53a)
Mains frequency	50/60 Hz



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Load current range	180 mA 3 A (see to derating)
Trigger characteristic in acc. with IEC 60947-4-2	Class 10
Cooling time	20 min (for auto reset)
Leakage current	0 mA
Protective circuit	Surge protection; Varistor

#### 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 mm² 2.5 mm²
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.

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## Signaling

Status display	LED (yellow)
Operating voltage display	Green LED
Error indication	Red LED

#### **Dimensions**

Width	22.5 mm
Height	107 mm
Depth	114 mm

## Material specifications

Flammability rating according to UL 94 (Housing)	V0 (Housing)

## Environmental and real-life conditions

#### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-5 °C 60 °C (observe derating)



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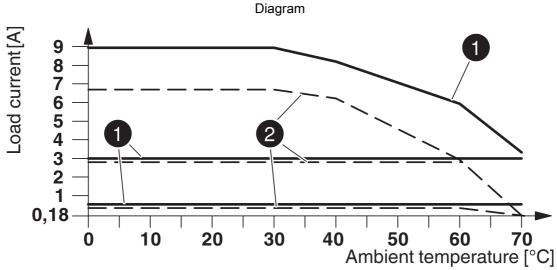
	Ambient temperature (storage/transport)	-40 °C 80 °C
	Altitude	≤ 2000 m
Ар	provals	
ι	JKCA	
	Certificate	UKCA-compliant
ι	JL approval	
	Certificate	NLDX.E228652
		NRNT.E172140
ι	JL data	
	SCCR	100 kA (480 V AC (fuse: 30 A class CC/30 A class J (high fault)))
		5 kA (480 V AC (fuse: 20 A RK5 (standard fault)))
	FLA	3 A (480 V AC)
	Group installation	20 A (class RK5, SCCR 5kA (480 V AC), #24 - 14 AWG max. solid and stranded)
		30 A (class CC or J, SCCR 100kA (480 V AC), #24 - 14 AWG max, solid and stranded)
	Category code	NLDX / NRNT
	Horsepower ratings	0.5 hp (208 V AC)
		0.5 hp (230 V AC)
		0.5 hp (240 V AC)
		1.5 hp (480 V AC)
Standards and regulations		
9	Standards/regulations	
	Standards/regulations	IEC 60947-1
		EN 60947-4-2
Mc	punting	
	Mounting type	DIN rail mounting
	Assembly note	alignable, for spacing see derating
	Mounting position	vertical (horizontal DIN rail, motor output below)



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## **Drawings**

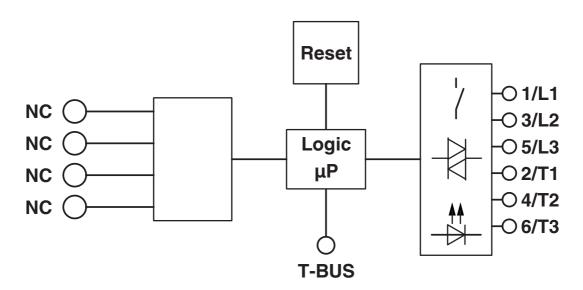


1 = aligned with > 20 mm spacing

2 = aligned without spacing

Derating diagram

Block diagram





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## Classifications

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		A.7.7

	ECLASS-13.0	27370905	
ETIM			
	ETIM 9.0	EC001037	
UNSPSC			
	UNSPSC 21.0	25173900	



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## Environmental product compliance

#### EU RoHS

Yes
7(a), 7(c)-l
EFUP-50
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.
Lead(CAS: 7439-92-1)
7e282b9b-ffb8-48dc-9b48-20bbc20cf278

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