

2905162

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Networkable hybrid motor starter for starting 3~ AC motors up to 500 V AC, output current: 0.6 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	2905162
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	DK7441
GTIN	4046356920292
Weight per piece (including packing)	283 g
Weight per piece (excluding packing)	282.7 g
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	Direct starter
Switching frequency	≤ 2 Hz (Load-dependent)
Maximum power dissipation for nominal condition	0.5 W
Switching frequency	≤ 2 Hz (Load-dependent)
Maximum power dissipation	2.5 W
Minimum power dissipation	0.88 W
Coordination type	1

Supply

Rated control circuit supply voltage U _S	24 V DC
Control supply voltage range	19.2 V DC 30 V DC
Rated control supply current I _S	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
	Safe isolation (EN 50178) in the auxiliary circuit ≤ 300 V AC

Emergency tripping

Operate threshold	> 10 A
Response time	< 0.5 s

Output data

AC output

, to output	
Rated operating voltage U _e	500 V AC
Operating voltage range	42 V AC 550 V AC
Rated operating current I _e	0.6 A (AC-51)
	0.6 A (AC-53a)
Mains frequency	50/60 Hz



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Load current range	75 mA 600 mA (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 _c in 7 lb _c in.

Load circuit

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
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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 _f -in 7 lb _f -in.

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)	
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Environmental and real-life conditions

Ambient conditions

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



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Mounting position

Ambient temperature (storage/transport)	-40 °C 80 °C
Altitude	≤ 2000 m
pprovals	
FF. 0.13	
UL approval	
Certificate	NLDX.E228652
	NRNT.E172140
UL 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	0.6 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
tandards and regulations Standards/regulations	
Standards/regulations	IEC 60947-1
	EN 60947-4-2
lounting	
Mounting type	DIN rail mounting
Assembly note	alignable, for spacing see derating

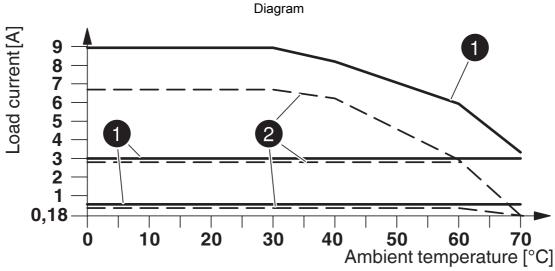
vertical (horizontal DIN rail, motor output below)



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Drawings

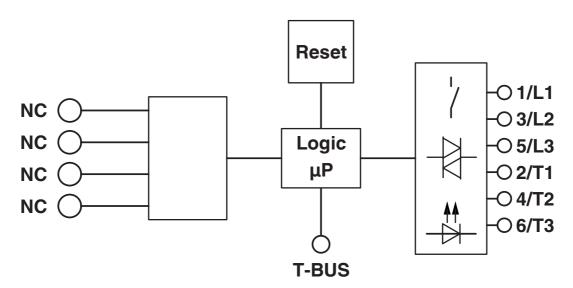


1 = aligned with > 20 mm spacing

2 = aligned without spacing

Derating diagram

Block diagram





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Classifications

UNSPSC

UNSPSC 21.0 25173902



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Environmental product compliance

China RoHS

Environment friendly use period (EFUP)	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.
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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