

2905151

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Networkable hybrid motor starter for reversing 3~ AC motors up to 500 V AC, and 0.6 A output current, with adjustable overload shutdown, emergency stop function to SIL 3/PL e and screw connection, DIN rail connector provided.

Your advantages

- 22.5 mm wide
- Safety level in accordance with IEC 61508-1: SIL 3, ISO 13849: PL e
- · Reduction in wiring
- · Space saving
- · Long service life
- · 3-phase loop bridges
- · Adjustable current for bimetal function
- · Low-wear switching

Commercial data

Item number	2905151
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C478
Product key	CK7432
Catalog page	Page 24 (C-5-2019)
GTIN	4046356920322
Weight per piece (including packing)	315 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
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

Emergency tripping

Operate threshold	> 10 A
Response time	< 0.5 s

Input data

Control

Input name	Enable input
Note	The enable input is compatible with signals with blanking (semiconductor output signals with test pulse with max. 3 ms duration), unblanking pulses of max. 4 ms are tolerated without adversely affecting the safety function.
Rated actuating voltage U _C	24 V DC



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Triggering voltage range	19.2 V DC 30 V DC
Rated actuating current I _C	7 mA
Switching threshold	9.6 V ("0" signal)
	19.2 V ("1" signal)
Switching level	< 5 V DC (For EMERGENCY STOP)
Typical turn-off time	< 30 ms
Protective circuit	Reverse polarity protection

Output data

AC output

500 V AC
42 V AC 550 V AC
0.6 A (AC-51)
0.6 A (AC-53a)
50/60 Hz
75 mA 600 mA (see to derating)
Class 10
20 min. (for auto reset)
0 mA
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 mm ² 2.5 mm ²
Conductor cross section AWG	24 14
Tightening torque	0.5 Nm 0.6 Nm
	5 lb _F in 7 lb _F 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 _C in 7 lb _C in.

Signaling

Status display Yellow LED	Yellow LED
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	0 150
Operating voltage display	Green LED
Error indication	Red LED
vimensions	
Width	22.5 mm
Height	107 mm
Depth	114 mm
laterial specifications	
Flammability rating according to UL 94	V0 (Housing)
nvironmental and real-life conditions	
Ambient conditions	
Degree of protection	IP20
Ambient temperature (operation)	-5 °C 60 °C (observe derating)
Ambient temperature (storage/transport)	-40 °C 80 °C
Altitude	≤ 2000 m
pprovals	
UKCA Certificate	UKCA-compliant
ATEX	
Identification	
	⑤ II (2) D [Ex tb] [Ex pb]
Certificate	PTB 15 ATEX 3000
UL approval	
Certificate	NLDX.E228652
	NRNT.E172140
Safety Integrity Level (SIL, IEC 61508)	
Identification	≤ 3
Note	Safe shutdown
Safety Integrity Level (SIL, IEC 61508)	
Identification	2
Note	Motor protection
Performance Level (ISO 13849)	
Identification	е
Note	Safe shutdown
Category (ISO 13849)	
Identification	≤ 3
Note	Safe shutdown



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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

Standards and regulations

Standards/regulations

Standards/regulations	IEC 60947-1
	EN 60947-4-2
	IEC 61508
	ISO 13849

Mounting

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

27370905
27370905
27370905
EC001037

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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