

2905153

https://www.phoenixcontact.com/us/products/2905153

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Networkable hybrid motor starter for reversing $3\sim$ AC motors up to 500 V AC and 9 A output current, with adjustable overload shutdown, emergency stop function up 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	2905153
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C478
Product key	DK7434
Catalog page	Page 24 (C-5-2019)
GTIN	4046356920346
Weight per piece (including packing)	317.3 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	12 W
Switching frequency	≤ 2 Hz (Load-dependent)
Maximum power dissipation	7 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	> 60 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.



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Rated actuating voltage U _C	24 V DC
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

Rated operating voltage $\mathrm{U_e}$	500 V AC
Operating voltage range	42 V AC 550 V AC
Rated operating current I _e	9 A (AC-51)
	7 A (AC-53a)
Mains frequency	50/60 Hz
Load current range	1.5 A 9 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; 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 _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 _F in 7 lb _F in.

Signaling



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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	V0 (Housing)
Environmental 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
Approvals	
Certificate	UKCA-compliant
ATEX	
Identification	
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



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Note	Safe shutdown
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	7.6 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
Horsepower ratings	2 hp (208 V AC)
	2 hp (230 V AC)
	2 hp (240 V AC)
	5 hp (480 V AC)

Standards and regulations

Standards/regulations

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

Mounting

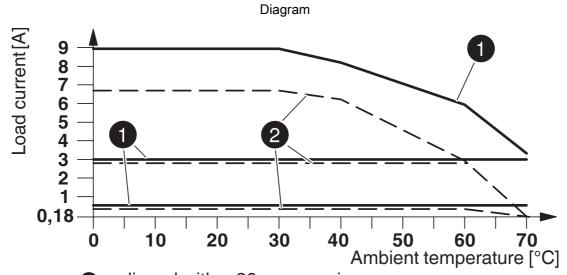
Mounting type	DIN rail mounting
Assembly note	alignable, for spacing see derating
Mounting position	vertical (horizontal DIN rail, motor output below)



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Drawings

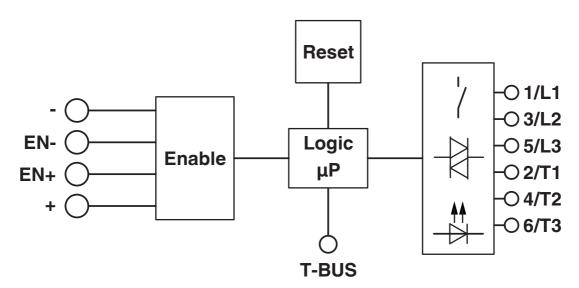


1 = aligned with > 20 mm spacing

2 = aligned without spacing

Derating diagram

Block diagram





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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2905153



EAC

Approval ID: RU*C-DE.*08.B.00520*



UL Listed

Approval ID: FILE E 172140



CCC

Approval ID: 2016010304900298



cUL Listed

Approval ID: FILE E 172140



cUL Listed

Approval ID: E228652



UL Listed

Approval ID: E228652



ATEX

Approval ID: PTB 15 ATEX 3000



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Classifications

ECLASS				
	ECLASS-13.0	27370905		
ETIM				
	ETIM 9.0	EC001037		

UNSPSC

UNSPSC 21.0 25173900



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I
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.)	Lead(CAS: 7439-92-1)
SCIP	c1971f34-bbd6-4f1a-80c2-6da837bd16d9

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