

2905163

https://www.phoenixcontact.com/us/products/2905163

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Networkable hybrid motor starter for starting 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	2905163
Packing unit	1 pc
Sales key	C474
Product key	DK7441
GTIN	4046356920308
Weight per piece (including packing)	291.4 g
Weight per piece (excluding packing)	279 g
Customs tariff number	85371098
Country of origin	DE



2905163

https://www.phoenixcontact.com/us/products/2905163

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	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 _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	> 33 A
Response time	< 0.5 s

Output data

AC output

AO output	
Rated operating voltage U _e	500 V AC
Operating voltage range	42 V AC 550 V AC
Rated operating current I _e	3 A (AC-51)
	3 A (AC-53a)
Mains frequency	50/60 Hz



2905163

https://www.phoenixcontact.com/us/products/2905163

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 mm ² 2.5 mm ²
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 _c in 7 lb _c 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	/0 (Housing)
--	--------------

Environmental and real-life conditions

Ambient conditions

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



2905163

https://www.phoenixcontact.com/us/products/2905163

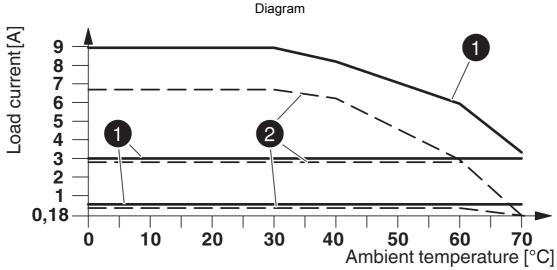
	Ambient temperature (storage/transport)	-40 °C 80 °C
	Altitude	≤ 2000 m
Ар	provals	
ι	JKCA	
	Certificate	UKCA-compliant
ι	JL approval	
	Certificate	NLDX.E228652
		NRNT.E172140
ι	JL data	
	SCCR	100 kA (480 V AC (fuse: 30 A class CC/30 A class J (high fault)))
		5 kA (480 V AC (fuse: 20 A RK5 (standard 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)
Sta	andards and regulations	
9	Standards/regulations	
	Standards/regulations	IEC 60947-1
		EN 60947-4-2
Мс	punting	
	Mounting type	DIN rail mounting
	Assembly note	alignable, for spacing see derating
	Mounting position	vertical (horizontal DIN rail, motor output below)



2905163

https://www.phoenixcontact.com/us/products/2905163

Drawings

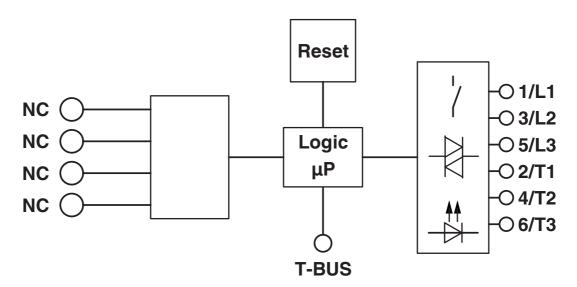


1 = aligned with > 20 mm spacing

2 = aligned without spacing

Derating diagram

Block diagram





2905163

https://www.phoenixcontact.com/us/products/2905163

Classifications

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



2905163

https://www.phoenixcontact.com/us/products/2905163

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-l
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	ec787ee4-8b62-4566-9cee-e29cefc2d509

Phoenix Contact 2025 © - all rights reserved https://www.phoenixcontact.com

Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com