ELR 5030 IP PN - Motor starter

2701006

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Electronic motor starter, electronic module without lower part of housing, 1-channel reversing starter

Product description

The PROFINET motor starters are designed as distributed motor starters with IP67 protection. They perform simple drive tasks. The motor starters provide a connection for mains supply and mains continuation as well as one or two connections for a three-phase asynchronous motor.

A complete motor starter consists of three products: motor starter, lower housing part, and Pg screw connection (see accessories).

- 1 integrated CONTACTRON hybrid motor starter with 3.0 kW
- Supported protocols: SNMPv2, TFTP, PROFINET, and LLDP
- 2 Ethernet connections
- 10 digital inputs (M12 sockets)
- 4 digital outputs (M12 sockets)
- Stainless steel housing with IP65/IP67 protection

Commercial data

Item number	2701006
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	DRFAAA
Catalog page	Page 51 (C-5-2017)
GTIN	4046356709644
Weight per piece (including packing)	3.5 kg
Weight per piece (excluding packing)	3.5 kg
Country of origin	DE

Technical data

Product properties

Type	Stand-Alone
Mounting position	vertical
Type	Electronic motor starter

Electrical properties

Supply: Module electronics

Connection method	COMBICON
Designation	Terminal strip X13
Number of positions	3
Permissible conductor cross section	1.5 mm²
Pg screw connection	Pg11
Supply voltage	24 V DC (U_{S1} / U_{S2})
Supply voltage range	20 V DC ... 30 V DC (including ripple)
Supply current	typ. 0.25 A (at U_{S1} = 24 V; plus current of digital inputs/outputs)
Ripple	Permissible ripple 3.6 V_{pp} within the permissible voltage range
Max. current carrying capacity	10 A

Input data

Digital: Digital inputs

Number of inputs	10
Connection method	M12 connector
Connection technology	2-, 3-, 4-conductor
Number of positions	5
Input voltage	24 V DC (U_{S1})
Input voltage range "0" signal	-3 V DC ... 5 V (binary "0")
Input voltage range "1" signal	15 V DC ... 30 V DC (binary "1")
Filter time	3 ms
Typical input current per channel	approx. 3 mA (for U_{S1} = 24 V)

Interfaces

No. of channels	2
Connection method	8-pos. RJ45 socket on motor starter
Designation connection point	X30 and X31
Number of positions	8
Permissible conductor cross section	max. 0.14 mm² ... 0.22 mm²

Dimensions

Width	384 mm
Height	182 mm
Depth	139 mm

Drill hole spacing	360 mm
Note on dimensions	Module electronics without lower part

Mechanical properties

Technical data

Drill hole spacing	360 mm

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP67 in acc. with IEC 60529
Ambient temperature (operation)	-25 °C ... 50 °C (non-condensing)
Note	Notes on operation Line protection for the power cable, maximum 25 A. Observe derating of the POWER COMBICON connector
	Notes on operation Permitted network type TN network, TT network, IT network available on request
Air pressure (operation)	86 kPa ... 106 kPa (up to 2000 m above sea level)
Air pressure (storage/transport)	86 kPa ... 106 kPa (up to 2000 m above sea level)
Ambient temperature (storage/transport)	-25 °C ... 70 °C (non-condensing)
Permissible humidity (operation)	0 % ... 85 % (non-condensing)
Permissible humidity (storage/transport)	75 % (slight temporary condensation may sometimes appear on the housing)

Standards and regulations

Protection class	I (EN 50178)
Noise emission	EN 61000-6-4

Air clearances and creepage distances

Air clearances and creepage distances	in accordance with EN 50178: 1998

Mounting

Mounting type	Panel mounting
Mounting position	vertical

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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