

# ELR 5030 IP PN - Motor starter



2701006

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Electronic motor starter, 3.0 kW, single-channel, IP67 degree of protection

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
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

### Electrical properties

#### Supply: Module electronics

Connection method	COMBICON
Designation	Terminal strip X13
Number of positions	3
Permissible conductor cross-section	1.5 mm <sup>2</sup>
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 <sub>pp</sub> 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 mm <sup>2</sup> ... 0.22 mm <sup>2</sup>

### Dimensions

Width	384 mm
Height	182 mm
Depth	139 mm
Drill hole spacing	360 mm

Note on dimensions	Module electronics without lower part
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## Material specifications

Housing material	IP67 Stainless steel housing
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## Mechanical properties

### Technical data

Drill hole spacing	360 mm
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## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP67, in acc. to 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)

### Mechanical test

Shock in accordance with EN 60068-2-27/IEC 60068-2-27	10g, evaluation criterion 1
Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6	2g, evaluation criterion 1

## 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
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## Mounting

Mounting type	Panel mounting
Mounting position	vertical

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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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