

# 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 <sub>S1</sub> / U <sub>S2</sub> )                                    |
| Supply voltage range                | 20 V DC ... 30 V DC (including ripple)  |
| Supply current                      | typ. 0.25 A (at U <sub>S1</sub> = 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 <sub>S1</sub> )                |
| 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 <sub>S1</sub> = 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 |
|--------------------|---------------------------------------|

## Material specifications

|                  |                              |
|------------------|------------------------------|
| Housing material | IP67 Stainless steel housing |
|------------------|------------------------------|

## Mechanical properties

### Technical data

|                    |        |
|--------------------|--------|
| Drill hole spacing | 360 mm |
|--------------------|--------|

## 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<br>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 |
|---------------------------------------|-----------------------------------|

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