

Motor starter - ELR 5030 IP PN - 2701006

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

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

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



Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4046356709644

Technical data

Dimensions

Width	384 mm
Height	182 mm
Depth	139 mm
Note on dimensions	Module electronics without lower part
Drill hole spacing	360 mm

Ambient conditions

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Technical data

Ambient conditions

Ambient temperature (operation)	-25 °C ... 50 °C (non-condensing)
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)
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)
Degree of protection	IP67 in acc. with IEC 60529
Note	Notes on operation Line protection for the power cable, maximum 25 A. Observe derating of the POWER COMBICON connector

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 ² ... 0.22 mm ²

Power supply for module electronics

Connection method	COMBICON
Designation	Terminal strip X13
Number of positions	3
Permissible conductor cross section	1.5 mm ²
Pg screw connection	Pg11
Supply voltage	24 V DC (U _{S1} / U _{S2})
Supply voltage range	20 V DC ... 30 V DC (including ripple)
Ripple	Permissible ripple 3.6 V _{pp} within the permissible voltage range
Supply current	typ. 0.25 A (at U _{S1} = 24 V; plus current of digital inputs/outputs)
Max. current carrying capacity	10 A

Mains connection

Designation	Mains connection
Connection method	POWER-COMBICON with silver contacts
Designation connection point	X11
Number of positions	5
Permissible conductor cross section	2.5 mm ² ... 4 mm ²
Pg screw connection	Pg11
Operating voltage	360 V AC ... 550 V AC (line voltage 50/60 Hz)
Max. current carrying capacity	25 A

Motor starter, output

Connection method	POWER-COMBICON
Number	1

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Motor starter, output

Designation connection point	Terminal strip X10
Permissible conductor cross section	2.5 mm² ... 4 mm²
Pg screw connection	Pg16
Operating voltage	360 V AC ... 550 V AC (line voltage 50/60 Hz)
Frequency range	50 Hz ... 60 Hz (mains frequency)
Nominal current range	2.4 A ... 6 A
Utilization category	on the basis of AC 3
Switching rate	max. 5 cycles per minute

Motor monitoring

Parameterization	via PROFINET
Parameterization range	2.4 A ... 6 A

Digital inputs

Input name	Digital inputs
Number of inputs	10
Connection method	M12 connector
Connection technology	2, 3, 4-wire
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")
Typical input current per channel	approx. 3 mA (for $U_{S1} = 24$ V)
Filter time	3 ms
Power supply for sensors	$U_{IN1} = U_{S1}$ minus 1 V 500 mA Short-circuit/overload protection

Digital outputs

Output name	Digital outputs
Number of outputs	4
Connection method	M12 connector
Connection technology	2-wire
Number of positions	5
Output current	max. 500 mA (per channel)
Minimum output voltage with nominal current	U_{S2} minus 1 V
Type of protection	Electronic short-circuit/overload protection, damping diode

General

Mounting type	Wall mounting
Net weight	3500 g
Note on weight specifications	Module electronics without lower part
Note	Notes on operation Line protection for the power cable, maximum 25 A. Observe derating of the POWER COMBICON connector

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Technical data

General

	Notes on operation Permitted network type TN network, TT network, IT network available on request
Mounting position	vertical

Standards and Regulations

Air clearances and creepage distances	according to EN 50178: 1998
Noise emission	EN 61000-6-4
Mechanical tests	Shock in acc. with EN 60068-2-27/IEC 60068-2-27 10g, evaluation criterion 1
	Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6 2g, evaluation criterion 1
Protection class	I (EN 50178)

Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Classifications

eCl@ss

eCl@ss 4.0	27250201
eCl@ss 4.1	27250201
eCl@ss 5.0	27250203
eCl@ss 5.1	27242600
eCl@ss 6.0	27242600
eCl@ss 7.0	27242609
eCl@ss 8.0	27242609
eCl@ss 9.0	27242609

ETIM

ETIM 3.0	EC001601
ETIM 4.0	EC001605
ETIM 5.0	EC001605
ETIM 6.0	EC001605

UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404
UNSPSC 13.2	32151602
UNSPSC 19.0	32151602

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Accessories

Accessories

Data cable by the meter

Network cable - FL CAT5 HEAVY - 2744814



CAT5-SF/UTP cable (J-02YS(ST)C HP 2 x 2 x 24 AWG), heavy-duty installation cable, 2 x 2 x 0.22 mm², solid conductor, shielded, outer sheath: 7.8 mm diameter, inner sheath: 5.75 mm ± 0.15 mm diameter

Data plug

Assembly tool - FL CRIMPTOOL - 2744869



Crimping pliers, for assembling the RJ45 plugs FL PLUG RJ45..., for assembly on site

Lower part of the housing

Mounting base housing - IBS IP 400 MBH -F - 2732868



Lower housing part, high-grade steel version, degree of protection: IP67

Mounting material

Pg screw connection - IBS PG SET - 2836599



Pg screw connection, plastic, (IP67), for INTERBUS and PROFINET motor starters and variable frequency drives.

Plug

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Accessories

RJ45 connector - FL PLUG RJ45 GR/2 - 2744856



RJ45 connector, shielded, with bend protection sleeve, 2 pieces, gray for straight cables, for assembly on site. For connections that are not crossed, it is recommended that you use the connector set with gray bend protection sleeve.

RJ45 connector - FL PLUG RJ45 GN/2 - 2744571



RJ45 connector, shielded, with bend protection sleeve, 2 pieces, green for crossed cables, for assembly on site. For connections that are crossed, it is recommended that the connector set with green bend protection sleeves is used.

Necessary add-on products

Mounting base housing - IBS IP 400 MBH -F - 2732868



Lower housing part, high-grade steel version, degree of protection: IP67

Pg screw connection - IBS PG SET - 2836599



Pg screw connection, plastic, (IP67), for INTERBUS and PROFINET motor starters and variable frequency drives.

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