Motor starter - IBS RL 400 MLR R DIO6/1 LK2MBD - 2731830

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Electromechanical reversing load motor starter for INTERBUS; fiber optic technology with 2 Mbaud, inputs (24 V DC), integrated motor protection relay (220 V AC to 440 V AC; 8 A, maximum), sensor connection via 5-pos. M12 female connectors, rugged metal housing, IP67 protection

Your advantages

- Rugged metal housing
- Emergency operation on the device or via external operating elements
- Comprehensive diagnostic functions including motor current monitoring
- M12 connector for digital inputs
- Rugged Line connector for INTERBUS with fiber optic and supply voltage
- COMBICON connector for motor output

Key Commercial Data

Packing unit	1 pc
GTIN	4 017918 901820
GTIN	4017918901820
Weight per Piece (excluding packing)	4,181.000 g
Custom tariff number	85389091
Country of origin	Germany

Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area

Dimensions

Width	185.1 mm

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Technical data

Dimensions

Height	193 mm
Depth	138 mm

Ambient conditions

Ambient temperature (operation)	0 °C ... 55 °C
Ambient temperature (storage/transport)	-25 °C ... 70 °C
Permissible humidity (operation)	100 %
Permissible humidity (storage/transport)	95 % (non-condensing)
Air pressure (operation)	860 hPa ... 1080 hPa (up to 1500 m above sea level)
Air pressure (storage/transport)	660 hPa ... 1080 hPa (up to 3500 m above sea level)
Degree of protection	IP65/IP67

Interfaces

Designation	INTERBUS
Connection method	Fiber optics
Transmission speed	2 Mbps

Power supply for module electronics

Supply voltage	24 V DC
Supply voltage range	18.5 V DC ... 32 V DC (including ripple)
Ripple	3.6 V_{pp}

Mains connection

Designation	Mains connection
Connection method	POWER-COMBICON with silver contacts
Designation connection point	Terminal strip X11 and X12
Number of positions	4
Permissible conductor cross section	2.5 mm² ... 4 mm²
Operating voltage	200 V AC ... 440 V AC (conductor voltage)
Max. current carrying capacity	20 A

Motor starter, output

Connection method	POWER-COMBICON
Number	1
Designation connection point	X10
Number of positions	8
Pg screw connection	Pg16
Operating voltage	200 V AC ... 440 V AC
Frequency range	50 Hz ... 60 kHz
Nominal current range	0.2 A ... 8 A (parameterizable, observe derating)

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Technical data

Motor starter, output

Utilization category	on the basis of AC 3
Switching rate	max. 5 cycles per minute
Motor startup time	1 s

Motor monitoring

Parameterization	Via INTERBUS
Overspeed tripping	≥ 40 A (after 1 second at I_{nom} > 3.6 A)

Motor starter, brake

Continuous load current	max. 1 A
Type of contact	Mechanical relay contact
Connection technology	POWER-COMBICON terminal strips
Connection voltage	12 V AC/DC ... 440 V AC/DC

Digital inputs

Input name	Digital inputs
Number of inputs	6
Connection method	M12 connector
Connection technology	3-, 4-conductor
Number of positions	5
Input voltage	24 V DC (DIN EN 61131-2)
Input voltage range "0" signal	0 V ... 5 V
Input voltage range "1" signal	11 V ... 30 V
Typical input current per channel	5 mA (for U_{S1} = 24 V)
Filter time	3 ms
Power supply for sensors	U_{INI} = U_{S1} minus 1 V 50 mA Protected against inductive reverse voltages, electronically protected against short-circuiting

Digital outputs

Output name	Digital outputs
Number of outputs	1
Connection method	M12 connector
Number of positions	5
Output current	0.5 A
Minimum output voltage with nominal current	U_{S1} minus 2 V
Type of protection	Electronic short-circuit/overload protection

General

Mounting type	Wall mounting
Net weight	3800 g

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Technical data

General

Diagnostics messages	Mains failure, phase failure, blown fuse Error message in diagnostic code (bus) and display by means of the E LED on the motor starter
	Motor connector not plugged in, motor temperature exceeded, thermistor line short-circuited Error message in diagnostic code (bus) and display by means of the E LED on the motor starter
	Sensor supply failure Error message in diagnostic code (bus) and display by means of the E LED on the motor starter
	Failure of the actuator supply Error message in diagnostic code (bus) and display by means of the E LED on the motor starter
	Motor overcurrent Error message in diagnostic code (bus) and display by means of the E LED on the motor starter
	Output stage cannot be controlled Error message in diagnostic code (bus) and display by means of the E LED on the motor starter
	Module error during self test Message to the master
Mounting type	on mounting plate

Standards and Regulations

Air clearances and creepage distances	according to EN 50178: 1998
Protection class	I (МЭК 61140, EN 61140, VDE 0140-1)

Environmental Product Compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Classifications

eCl@ss

eCl@ss 10.0.1	27242609
eCl@ss 11.0	27242609
eCl@ss 4.0	27250300
eCl@ss 4.1	27250300
eCl@ss 5.0	27250300
eCl@ss 5.1	27242600
eCl@ss 6.0	27242600
eCl@ss 7.0	27242609
eCl@ss 9.0	27242609

ETIM

ETIM 2.0	EC001433
ETIM 3.0	EC001605

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Classifications

ETIM

ETIM 4.0	EC001605
ETIM 6.0	EC001605
ETIM 7.0	EC001605

UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404
UNSPSC 13.2	32151602
UNSPSC 18.0	32151602
UNSPSC 19.0	32151602
UNSPSC 20.0	32151602
UNSPSC 21.0	32151602

Approvals

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INTERBUS CLUB

Ex Approvals

Approval details

INTERBUS CLUB	448/29.07.05