

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	
GTIN	4017918901820

Technical data

Note

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

Width	185.1 mm
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 %

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Ambient conditions

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 mm ² ... 4 mm ²
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)
Utilization category	On the basis of AC 3
Switching rate	5 cycles per minute, maximum
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

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Motor starter, brake

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-wire
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	$U_{NI} = U_{S1}$ 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
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

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Standards and Regulations

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

Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Approvals


Approvals

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VDE Zeichengenehmigung / INTERBUS CLUB

Ex Approvals

Approval details

VDE Zeichengenehmigung		http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx	40015947
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INTERBUS CLUB	448/29.07.05
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