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## 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

### Product Features

- 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
Weight per Piece (excluding packing)	4181.0 GRM
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
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#### Dimensions

Width	185.1 mm
Height	193 mm
Depth	138 mm

#### Ambient conditions

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### Technical data

#### 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 mean sea level)
Air pressure (storage/transport)	660 hPa ... 1080 hPa (up to 3500 m above mean sea level)
Degree of protection	IP65/IP67

#### Interfaces

Fieldbus system	INTERBUS
Designation	INTERBUS
Connection method	Fiber optics
Transmission speed	2 MBit/s

#### 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 <sub>pp</sub>
Current consumption	typ. 90 mA (plus power supply for sensors)

#### 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 <sup>2</sup> ... 4 mm <sup>2</sup>
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

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### Technical data

#### Motor starter, output

Switching rate	5 cycles per minute, maximum
Motor startup time	1 s

#### Motor monitoring

Parameterization	Via INTERBUS
Overspeed tripping	$\geq 40$ 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 method	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
	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	$U_{INI} = U_{S1}$ minus 1 V 50 mA Protected against inductive reverse voltages, electronically protected against short-circuiting

#### 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

Weight	3.8 kg
Mounting type	Wall mounting
Protection class	I, IEC 61140, EN 61140, VDE 0140-1
Air and creepage distances	According to EN 50178: 1998

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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

## Classifications

### eCl@ss

eCl@ss 4.0	27250304
eCl@ss 4.1	27250304
eCl@ss 5.0	27250304
eCl@ss 5.1	27242609
eCl@ss 6.0	27242609
eCl@ss 7.0	27242609
eCl@ss 8.0	27242609

### ETIM

ETIM 2.0	EC001433
ETIM 3.0	EC001605
ETIM 4.0	EC001605
ETIM 5.0	EC001605

### UNSPSC

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

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### Approvals

#### Approvals

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#### Approvals

VDE Zeichengenehmigung / INTERBUS CLUB

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#### Ex Approvals

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#### Approvals submitted

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### Approval details

VDE Zeichengenehmigung 

INTERBUS CLUB

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