

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



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

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 2731830 |
| Packing unit | 1 pc |
| Sales key | DR03 |
| Product key | DRI517 |
| GTIN | 4017918901820 |
| Weight per piece (including packing) | 4,181 g |
| Weight per piece (excluding packing) | 3,800 g |
| Customs tariff number | 85389091 |
| Country of origin | DE |

Technical data

Dimensions

| | |
|--------|----------|
| Width | 185.1 mm |
| Height | 193 mm |
| Depth | 138 mm |

Interfaces

INTERBUS

| | |
|--------------------|--------------|
| Connection method | Fiber optics |
| Transmission speed | 2 Mbps |

System properties

Programming data

| | |
|-------------------------|--------|
| Length code (hex) | 01 |
| ID code (dec.) | 3 |
| Length code (dec) | 1 |
| Process data channel | 16 bit |
| Input address area | 2 Byte |
| Output address area | 2 Byte |
| Parameter channel (PCP) | 0 Byte |
| Register length (bus) | 2 Byte |

Input data

Digital: 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 |
| Filter time | 3 ms |
| Typical input current per channel | 5 mA (for $U_{S1} = 24 V$) |

Product properties

| | |
|----------------------|--|
| Product type | I/O component |
| Product family | Ruggedline |
| Type | Block design |
| 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 |

Electrical properties

Supply: Module electronics

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

Connection data

| | |
|-------------------|---------------|
| Connection method | M12 connector |
|-------------------|---------------|

Environmental and real-life conditions

Ambient conditions

| | |
|--|---|
| Degree of protection | IP65/IP67 |
| Ambient temperature (operation) | 0 °C ... 55 °C |
| 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) |
| Ambient temperature (storage/transport) | -25 °C ... 70 °C |
| Permissible humidity (operation) | 100 % |
| Permissible humidity (storage/transport) | 95 % (non-condensing) |

Standards and regulations

| | |
|------------------|-------------------------------------|
| Protection class | I (IEC 61140, EN 61140, VDE 0140-1) |
|------------------|-------------------------------------|

Air clearances and creepage distances

| | |
|---------------------------------------|-----------------------------------|
| Air clearances and creepage distances | in accordance with EN 50178: 1998 |
|---------------------------------------|-----------------------------------|

Mounting

| | |
|---------------|-------------------|
| Mounting type | on mounting panel |
| | Panel mounting |

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Classifications

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 32151600 |
|-------------|----------|

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Environmental product compliance

EU RoHS

| | |
|---|----------------------------------|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 6(a), 6(a)-I, 6(c), 7(a), 7(c)-I |

China RoHS

| | |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E |
| | No hazardous substances above the limits |

EU REACH SVHC

| | |
|-------------------------------------|----------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1) |
|-------------------------------------|----------------------|

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