

# IBS RL 400 MLR R DIO6/1 LK - Motor starter



2734769

<https://www.phoenixcontact.com/us/products/2734769>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Electromechanical reversing load motor starter for INTERBUS; fiber optic technology with 500 kbaud, 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
- Rugged Line connector for INTERBUS with fiber optic and supply voltage
- COMBICON connector for motor output
- M12 connector for digital inputs

## Commercial data

Item number	2734769
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	DRI517
GTIN	4017918906863
Weight per piece (including packing)	4,149 g
Weight per piece (excluding packing)	3,800 g
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	500 kbps

### System properties

#### Module

ID code (dec.)	3
ID code (hex)	03
Length code (hex)	01
Length code (dec)	1
Process data channel	16 bit
Input address area	2 Byte
Output address area	2 Byte
Register length	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 <sub>pp</sub>

## 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

# IBS RL 400 MLR R DIO6/1 LK - Motor starter



2734769

<https://www.phoenixcontact.com/us/products/2734769>

## Classifications

### ETIM

ETIM 8.0	EC001605
----------	----------

### UNSPSC

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

2734769

<https://www.phoenixcontact.com/us/products/2734769>

## 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)
-------------------------------------	----------------------

Phoenix Contact 2025 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)