

IBS RL 480 MLR R DIO6/1-LK - Motor starter



2737384

<https://www.phoenixcontact.com/us/products/2737384>

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 480 V AC; 8 A, maximum), sensor connection via 5-pos. M12 female connectors, rugged metal housing, IP67 protection

Your advantages

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

Commercial data

Item number	2737384
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DR03
Product key	DRI517
GTIN	4017918949976
Weight per piece (including packing)	4,301 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

Notes

Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the download area
----------	---

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 _{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

IBS RL 480 MLR R DIO6/1-LK - Motor starter



2737384

<https://www.phoenixcontact.com/us/products/2737384>

Environmental product compliance

China RoHS

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

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
-------------------------------------	----------------------------

Phoenix Contact 2026 © - 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