Inline terminal - IB IL 400 MLR 1-8A - 2727365

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Inline power-level terminal blocks, electronic direct starter, up to 3.7 kW / 400 V AC

Product Description

The terminal is designed for use within an Inline station.
The single-channel power-level terminal features electronic motor protection.
The terminal enables a three-phase asynchronous motor to be switched, protected, and monitored via a bus system.

Why buy this product

- Integrated electronic motor protection in accordance with IEC 60947-4
- Connection option for an external passive brake module
- Hand-held operator panel mode
- Motor control via OUT process data
- Motor current monitoring

Key Commercial Data

Packing unit	1 STK
GTIN	4 017918 168483
GTIN	4017918168483
Weight per Piece (excluding packing)	680.000 g
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

Dimensions

Width	63 mm
Height	224 mm

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Technical data

Dimensions

Depth	109 mm

Ambient conditions

Ambient temperature (operation)	-25 °C ... 55 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (operation)	10 % ... 85 % (non-condensing)
Permissible humidity (storage/transport)	10 % ... 85 % (non-condensing)
Air pressure (operation)	70 kPa ... 106 kPa (up to 2000 m above mean sea level)
Air pressure (storage/transport)	70 kPa ... 106 kPa (up to 3000 m above mean sea level)
Degree of protection	IP20

Interfaces

Designation	Inline local bus
Connection method	Inline data jumper
Transmission speed	500 kbps
Transmission physics	Copper

Power supply for module electronics

Connection method	Through the potential jumper

Mains connection

Designation	Mains connection
Connection method	Power plug
Designation connection point	Terminal strip X11 and X12
Number of positions	5
Permissible conductor cross section	max. 2.5 mm² (L1, L2, L3, N, PE (not leading))
Operating voltage	187 V AC ... 500 V AC +0 % (conductor voltage)
Max. current carrying capacity	20 A

Motor starter, output

Connection method	COMBICON
Number	1 ()
	1
Output name	Motor output
Designation connection point	Terminal strip X10
Number of positions	4
Permissible conductor cross section	1 mm² ... 2.5 mm²
Operating voltage	200 V AC ... 600 V AC +0 %
Frequency range	50 Hz ... 60 Hz
Nominal current range	0.2 A ... 8 A

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Motor starter, output

Switching rate	Max. 5 cycles per minute

Motor monitoring

Parameterization range	0.2 A ... 8 A (steps of 50/100/200 mA, via fieldbus)
Overspeed tripping	≥ 40 A (after 0.3 seconds)

Motor starter, brake

Number	1
Type of contact	Solid-state contact
Connection technology	COMBICON

Thermistor input

Number of inputs	2

Digital inputs

Number of inputs	1
Number of positions	4
Filter time	0.2 ms

Inline potentials

Communications power U_L	7.5 V
Current consumption from U_L	max. 50 mA
Segment circuit supply U_S	24 V DC (nominal value)
Supply voltage range U_S	max. 19.2 V DC ... 28.8 V DC (including all tolerances, including ripple)
Current consumption from U_S	max. 160 mA
Power consumption	max. 0.375 W (at U_L)
	max. 4.2 W (entire device)

General

Mounting type	DIN rail
Net weight	550 g
Note on weight specifications	Without plug
Operating mode	Process data mode with one byte
Note	Notes on operation Line protection for the network supply line, max. 20 A. Observe derating of the POWER-COMBICON connector
Diagnostics messages	Overcurrent Error message in the diagnostic code (bus) and display via the LED ERR on the module
	Output stage cannot be controlled Error message in the diagnostic code (bus) and display via the LED ERR on the module
	Module error during self test Message to the master

Standards and Regulations

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Standards and Regulations

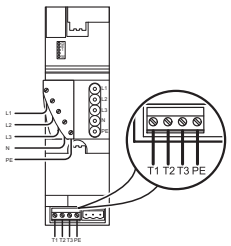
Mechanical tests	Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6 1g, evaluation criterion 1
	Shock in acc. with EN 60068-2-27/IEC 60068-2-27 10g, evaluation criterion 1
Protection class	I, IEC 61140, EN 61140, VDE 0140-1

Environmental Product Compliance

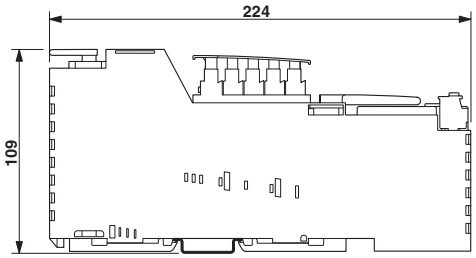
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab “Downloads”, Category “Manufacturer's declaration”

Drawings

Connection diagram



Dimensional drawing



Classifications

eCl@ss

eCl@ss 4.0	27250309
eCl@ss 4.1	27250309
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
eCl@ss 9.0	27242609

ETIM

ETIM 2.0	EC001433
ETIM 3.0	EC001601

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Classifications

ETIM

ETIM 4.0	EC001601
ETIM 5.0	EC001605
ETIM 6.0	EC001605

UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404
UNSPSC 13.2	32151602

Approvals

Approvals

Approvals

UL Listed / cUL Listed / EAC / cULus Listed

Ex Approvals

Approval details

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 228652
cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 228652
EAC			EAC-Zulassung
cULus Listed			

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Accessories

Accessories

Bridge

Power bridge - IB IL 400 CN-BRG - 2836081

Power bridge, for Inline power-level terminal blocks

Power bridge - IB IL 400 CN-BRG - 2836081

Power bridge, for Inline power-level terminal blocks

Cover

Cover - IB IL 400 CN-COV - 2860947

Cover for 400 V mains connection of the Inline power terminal blocks

Extension module

Inline terminal - IB IL 24 BR/DC - 2742036

Inline extension module, for brake control in connection
with Inline power terminal blocks, brake module for 24 V DC brakes

Inline terminal - IB IL 400 MLR 1-8A - 2727365

Accessories

Inline terminal - IB IL 400 BR - 2727394

Inline extension module, for brake control in conjunction with Inline power level terminals, brake module for 440 V DC or 440 V AC brakes

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I/O component

Inline function terminal - IB IL 24 TC-PAC - 2861360

Inline thermistor terminal block, complete with accessories (connector and labeling field), 2-wire connection method

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PCB plug

Printed-circuit board connector - MCVW 1,5/ 4-ST-3,81 - 1826995

Plug component, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 4, pitch: 3.81 mm, connection method: Screw connection with tension sleeve, Color: green, Contact surface: Tin

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Plug

Power plug - IB IL 400 CN-PWR-IN - 2836078

Power plug, for Inline power-level terminals

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Accessories

Printed-circuit board connector - GMVSTBW 2,5 HV/ 4-ST-7,62 NZIL - 1893957

Motor-circuit connector, for Inline power-level terminal blocks