

Inline function terminal - IB IL EC AR 48/10A-PAC - 2819587

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Servo amplifier for DC motors with brushgear and EC motors (without brushgear)

Why buy this product

- 97.6 mm design width
- Homing
- Position detection with incremental encoder
- Position, speed, and torque control
- Point-to-point positioning function
- Electronic commutation with Hall sensors
- Variable frequency drive with positioning function
- Speed profile: trapezoid or S curve

Key commercial data

Packing unit	1 pc
GTIN	 4 017918 956172
Weight per Piece (excluding packing)	880.0 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
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Dimensions

Width	97.6 mm
Height	166 mm
Depth	85 mm

Ambient conditions

Ambient temperature (operation)	-25 °C ... 55 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (operation)	75 % ... 85 % (75% permanent, 85% occasionally)

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Ambient conditions

Permissible humidity (storage/transport)	75 % ... 85 % (75% permanent, 85% occasionally)
Air pressure (operation)	80 kPa ... 106 kPa (up to 2000 m above sea level)
Air pressure (storage/transport)	70 kPa ... 106 kPa (up to 3000 m above sea level)
Degree of protection	IP20

Interfaces

Designation	Inline local bus
Connection method	Inline data jumper
Transmission speed	500 kBit/s
Designation	Startup and diagnostics
Connection method	RS-232

Power supply for module electronics

Connection method	2-pos. COMBICON connector
Designation	Power supply
Supply voltage range	12 V DC ... 48 V DC \pm 15 % (Surge voltage shutdown $U_S > 60$ V DC)
Max. current carrying capacity	10 A

Motor starter, output

Connection method	4-pos. COMBICON plug with shield connection clamp
Number	1
Output name	1 permanently excited DC motor with or without brushgear
Number of positions	4
Nominal current range	max. 10 A (Starting/continuous current)

Digital inputs

Number of inputs	3
Connection method	MINI COMBICON
	3-wire (Signal, U_S , GND)
Number of positions	3
Input voltage	24 V DC

Inline potentials

Communications power U_L	7.5 V DC (via voltage jumper)
Current consumption from U_L	typ. 30 mA
	max. 120 mA
Main circuit supply U_M	24 V DC (via voltage jumper)
Current consumption from U_M	typ. 100 mA
	max. 150 mA
Segment supply voltage U_S	24 V DC (via voltage jumper)

General

Weight	880 g
Note on weight specifications	with connectors

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Technical data

General

Mounting type	DIN rail
Protection class	III, IEC 61140, EN 61140, VDE 0140-1
Test section	Logic UL / I/O / motor 500 V AC
Conformance with EMC directives	Noise immunity test in accordance with EN 61000-6-2 Discharge of electrostatic electricity (ESD) EN 61000-4-2:1995/IEC 61000-4-2 4 kV contact discharge, criterion B; 6 kV air discharge, criterion B
	Fast transients (Burst) EN 61000-4-4:1995/IEC 61000-4-4 Criterion A; supply lines: 2 kV; signal/data lines: 2 kV
	Conducted interference EN 61000-4-6:1993/IEC 61000-4-6 Criterion A; Test voltage 10 V
Noise emission	Noise emission test of the housing EN 55011:1991 class A in accordance with EN 61000-6-4
Mechanical tests	Shock in acc. with EN 60068-2-27/IEC 60068-2-27 25g for 1 ms, three shocks in each direction
	Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6
	Free fall in acc. with IEC 60068-2-32 1 m

Classifications

eCl@ss

eCl@ss 4.0	27250302
eCl@ss 4.1	27250302
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	EC001430
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

Accessories

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Accessories

Adapter cable

Cable - EC AR DIAG CAB - 2819736



Cable to connect the Inline servo amplifier IB IL EC AR 48/10A to the RS-232 interface of a PC to use the startup and diagnostics software

Connector set

Connector set - IB IL ECAR-PLSET - 2819561



Connector set, including shield connection clamps for Inline servo amplifier IB IL EC AR 48/10A

Mounting material

Shield connection clamp - IBS IL AR MOTOR SHIELD - 2819480



Shield connection clamp for IB IL DC AR 48/10A

PCB plug

Printed-circuit board connector - FRONT-MSTB 2,5/ 2-STF - 1779644



Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 2, Pitch: 5 mm, Connection method: Screw connection, Color: green, Contact surface: Tin

Printed-circuit board connector - FRONT-MC 1,5/ 3-STF-3,81 - 1850864



Plug component, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 3, Pitch: 3.81 mm, Connection method: Screw connection, Color: green, Contact surface: Tin

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Accessories

Printed-circuit board connector - FRONT-MSTB 2,5/ 4-STF - 1779660

Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 4, Pitch: 5 mm, Connection method: Screw connection, Color: green, Contact surface: Tin



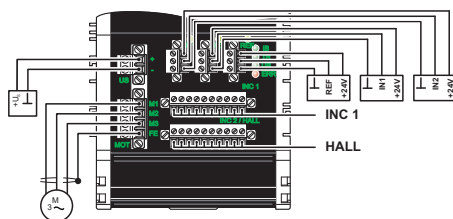
Printed-circuit board connector - FRONT-MC 1,5/10-STF-3,81 - 1850932

Plug component, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 10, Pitch: 3.81 mm, Connection method: Screw connection, Color: green, Contact surface: Tin



Drawings

Connection diagram



Dimensioned drawing

