

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)



Your advantages

- 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 |
| GTIN | 4017918956172 |

Technical data

Note

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

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) |
| Permissible humidity (storage/transport) | 75 % ... 85 % (75% permanent, 85% occasionally) |
| Air pressure (operation) | 80 kPa ... 106 kPa (up to 2000 m above sea level) |

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Technical data

Ambient conditions

| | |
|----------------------------------|---|
| 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 kbps |
| 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 $\pm 15\%$ (Overvoltage switch-off shutdown $U_S > 60$ V DC) |
| Max. current carrying capacity | 10 A |

Motor starter, output

| | |
|-----------------------|--|
| Connection method | 4-pos. COMBICON plug with shield 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 |
| Connection technology | 3-wire (Signal, U_S , GND) |
| Number of positions | 3 |
| Input voltage | 24 V DC |

Inline potentials

| | |
|----------------------|--|
| Designation | Communications power (U_L) |
| Supply voltage | 7.5 V DC (via voltage jumper) |
| Current consumption | typ. 30 mA |
| | max. 120 mA |
| Designation | Main circuit supply (U_M) |
| Supply voltage | 24 V DC (via voltage jumper) |
| Supply voltage range | 19.2 V DC ... 30 V DC (including all tolerances, including ripple) |
| Current consumption | typ. 100 mA |
| | max. 150 mA |
| Designation | Segment circuit supply (U_S) |
| Supply voltage | 24 V DC (nominal value) |

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Technical data

General

| | |
|-------------------------------|-----------------|
| Mounting type | DIN rail |
| Net weight | 880 g |
| Note on weight specifications | with connectors |

Standards and Regulations

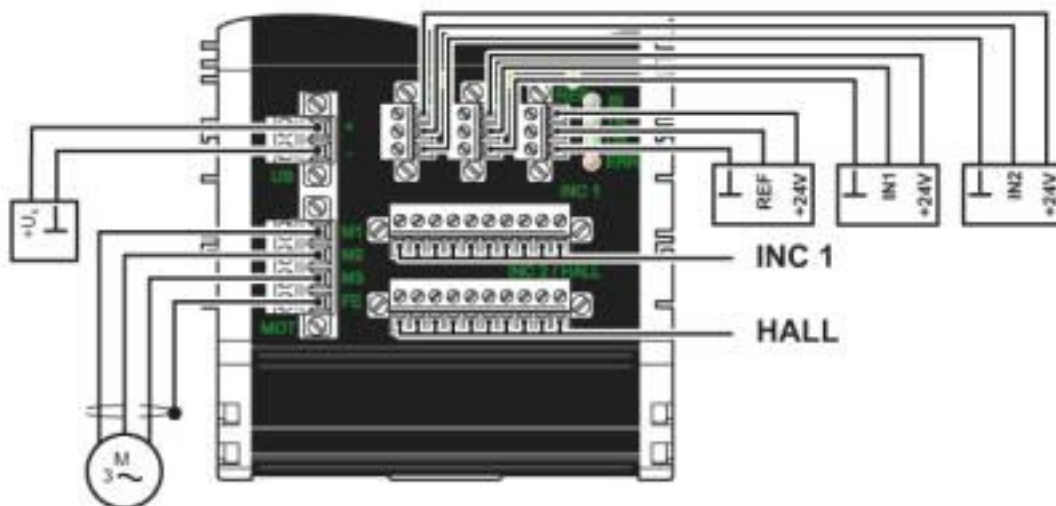
| | |
|------------------|--|
| Noise emission | Noise emission test of the housing EN 55011:1991 class A in accordance with EN 61000-6-4 |
| Mechanical tests | Shock in acc. with EN 60068-2-27/IEC 60068-2-27 25g for 1 ms, three shocks in each direction |
| | Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6 |
| | Free fall in acc. with IEC 60068-2-32 1 m |
| Protection class | III (IEC 61140, EN 61140, VDE 0140-1) |

Environmental Product Compliance

| | |
|------------|---|
| REACH SVHC | Lead 7439-92-1 |
| China RoHS | Environmentally Friendly Use Period = 50 years |
| | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

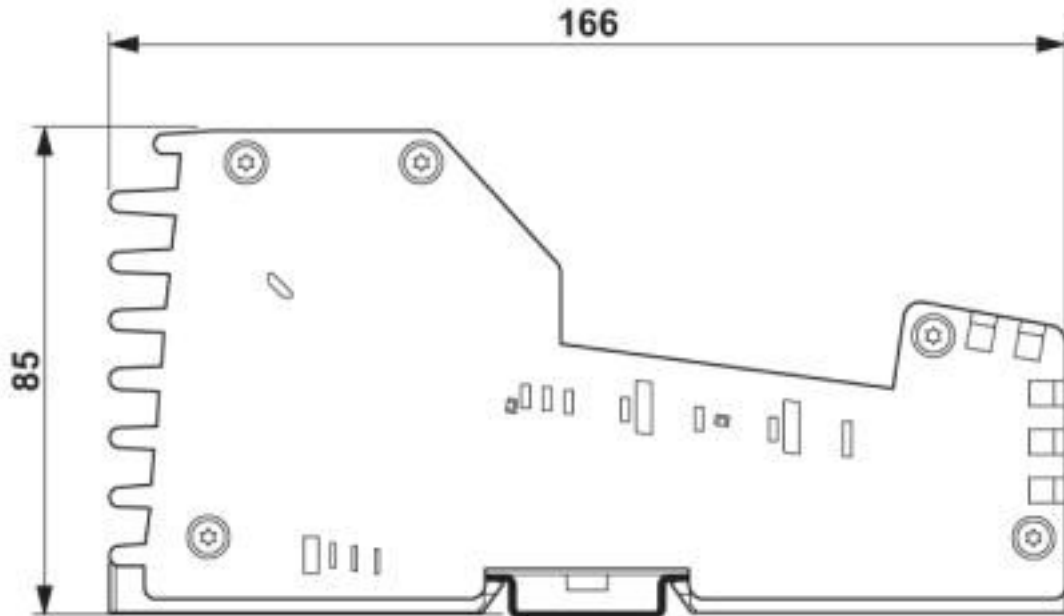
Drawings

Connection diagram



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Dimensional drawing



Classifications

eCl@ss

| | |
|---------------|----------|
| eCl@ss 10.0.1 | 27242609 |
| eCl@ss 4.0 | 27250300 |
| eCl@ss 4.1 | 27250300 |
| eCl@ss 5.0 | 27250300 |
| eCl@ss 5.1 | 27242600 |
| eCl@ss 6.0 | 27242600 |
| eCl@ss 7.0 | 27242609 |
| eCl@ss 8.0 | 27242609 |
| eCl@ss 9.0 | 27242609 |

ETIM

| | |
|----------|----------|
| ETIM 2.0 | EC001430 |
| ETIM 3.0 | EC001605 |
| ETIM 4.0 | EC001605 |
| ETIM 5.0 | EC001605 |
| ETIM 6.0 | EC001605 |
| ETIM 7.0 | EC001605 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 43172015 |
| UNSPSC 7.0901 | 43201404 |
| UNSPSC 11 | 43172015 |

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Classifications

UNSPSC

| | |
|--------------|----------|
| UNSPSC 12.01 | 43201404 |
| UNSPSC 13.2 | 32151602 |
| UNSPSC 18.0 | 32151602 |
| UNSPSC 19.0 | 32151602 |
| UNSPSC 20.0 | 32151602 |
| UNSPSC 21.0 | 32151602 |

Accessories

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 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

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Accessories

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

PCB connector, nominal current: 12 A, rated voltage (III/2): 320 V, nominal cross section: 2.5 mm², number of positions: 2, pitch: 5 mm, connection method: Front screw connection, color: green, contact surface: Tin



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

PCB connector, nominal current: 8 A, rated voltage (III/2): 160 V, nominal cross section: 1.5 mm², number of positions: 3, pitch: 3.81 mm, connection method: Front screw connection, color: green, contact surface: Tin



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

PCB connector, nominal current: 12 A, rated voltage (III/2): 320 V, nominal cross section: 2.5 mm², number of positions: 4, pitch: 5 mm, connection method: Front screw connection, color: green, contact surface: Tin



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

PCB connector, nominal current: 8 A, rated voltage (III/2): 160 V, nominal cross section: 1.5 mm², number of positions: 10, pitch: 3.81 mm, connection method: Front screw connection, color: green, contact surface: Tin



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