

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



2819587

<https://www.phoenixcontact.com/us/products/2819587>

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



## Your advantages

- Overall width: 97.6 mm
- 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

## Commercial data

Item number	2819587
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DR01
Product key	DRI192
GTIN	4017918956172
Weight per piece (including packing)	1,048 g
Weight per piece (excluding packing)	880 g
Customs tariff number	85389091
Country of origin	DE

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## Technical data

### Dimensions

Dimensional drawing	
Width	97.6 mm
Height	166 mm
Depth	85 mm

### Interfaces

#### Inline local bus

Connection method	Inline data jumper
Transmission speed	500 kbps

#### Startup and diagnostics

Connection method	RS-232
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### System properties

#### Programming data (LocalbusSlave)

Length code (hex)	03
ID code (dec.)	195
Length code (dec)	03
Process data channel	48 bit
Input address area	48 bit
Output address area	48 bit
Parameter channel (PCP)	16 bit
Register length (bus)	64 bit

#### Fieldbus data telegram

Required parameter data	8 Byte
Required configuration data	5 Byte

### Input data

#### Digital

Number of inputs	3
Connection method	MINI COMBICON
Connection technology	3-conductor (signal, Us, GND)
Number of positions	3

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Input voltage	24 V DC
Incremental encoder	
Number of inputs	1
Input frequency (5 V)	max. 1 MHz
Incremental encoder	
Input frequency (5 V)	max. 500 kHz (At 4 V voltage level)
Input frequency (24 V)	max. 100 kHz (At 20 V voltage level)

## Product properties

Product type	I/O component
Product family	Inline
Type	modular

## Electrical properties

### Potentials: Communications power ( $U_L$ )

Supply voltage	7.5 V DC (via voltage jumper)
Current draw	max. 120 mA typ. 30 mA

### Potentials: 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 draw	max. 150 mA typ. 100 mA

### Potentials: Segment circuit supply ( $U_S$ )

Supply voltage	24 V DC (nominal value)
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### Supply: 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

### Electrical isolation/isolation of the voltage ranges

Test voltage: Logic UL / I/O / motor	500 V AC
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## Connection data

### Connection technology

Connection name	Front MSTB
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### Front MSTB

Connection method	Screw connection
Conductor cross-section, rigid	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>

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Conductor cross-section, flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section AWG	24 ... 12
Stripping length	8 mm

## Front MC

Connection method	Screw connection
Conductor cross-section, rigid	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section, flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section AWG	28 ... 16

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 55 °C
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)
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)

### Mechanical test

Shock in accordance with EN 60068-2-27/IEC 60068-2-27	25g for 1 ms, three shocks in each direction
Free fall in accordance with IEC 60068-2-32	1 m

## Standards and regulations

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
Noise emission	Noise emission test of the housing EN 55011:1991 class A in accordance with EN 61000-6-4

## Mounting

Mounting type	DIN rail mounting
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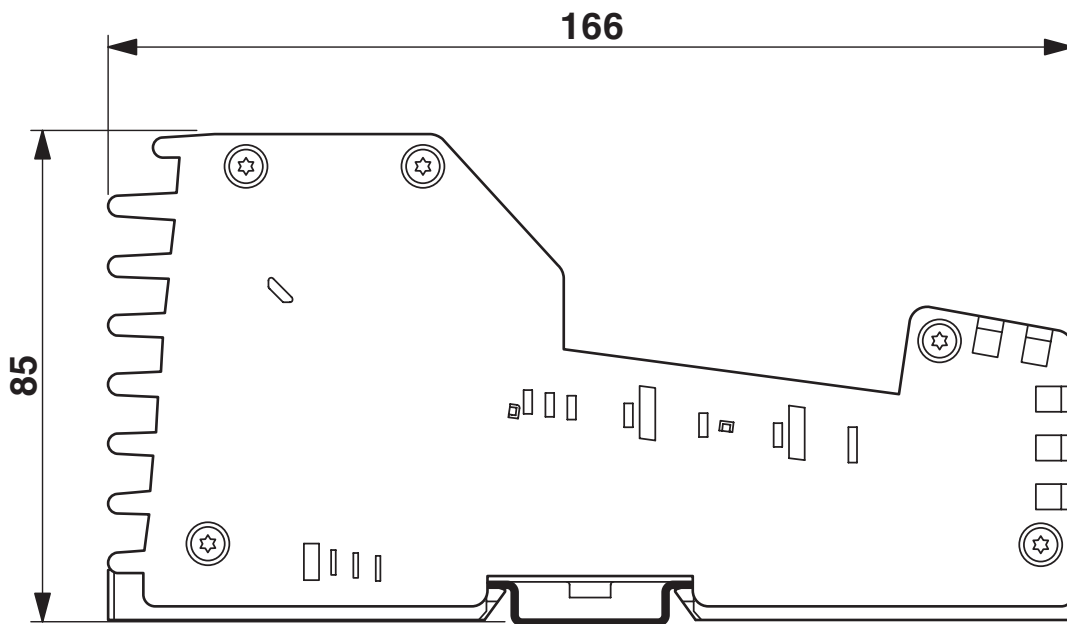
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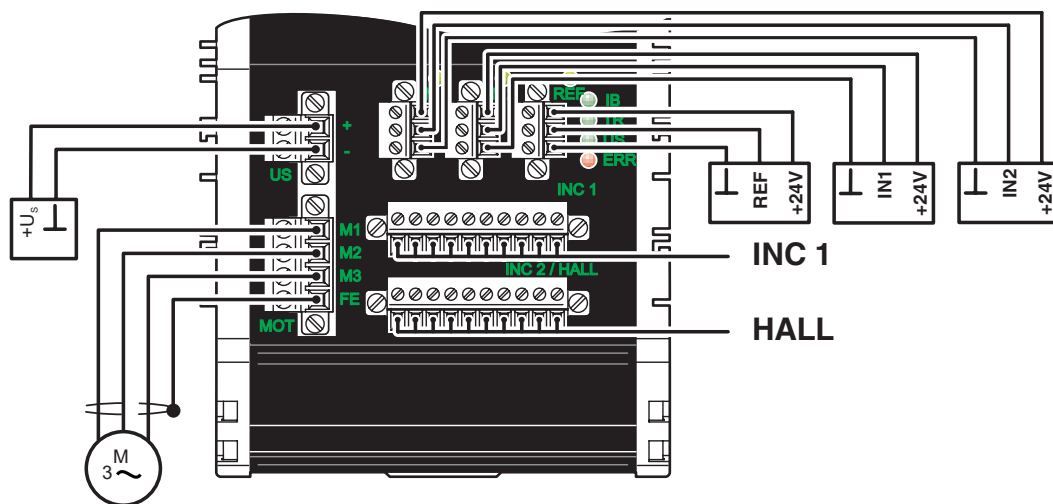
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## Drawings

Dimensional drawing



Connection diagram



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## Classifications

### UNSPSC

UNSPSC 21.0	32151600
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
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