



# Automatización Eléctrica

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### I/O systems

#### For the control cabinet (IP20) - Inline

#### Servo controller for EC motors

The IB IL EC AR 48/10A Inline servo controller is a universal power output module with a 4 quadrant function for permanently excited DC motors with brushgears or electronically commutated DC motors (EC motors) with up to 450 W power output.

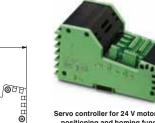
#### Features:

- Variable frequency drive with positioning function
- Electronic commutation with Hall sensors - Point-to-point positioning function
- Speed profile: trapezoid or S curve
- Position, speed, and torque control
- Position detection with incremental encoder
- Homing
- Max. 48 V/10 A - 97.6 mm design width
- Software tool for operation and startup
- including oscilloscope function - Cycle time of the position controller:
- 1 ms
- For single and multi-axis applications

## Applications:

- Handling machines in the semiconductor industry, in small parts protection, in the electronics industry, and in test engineering
- Assembly machines in small appliance production
- Bearing and conveying technology for small loads
- Format adjustment in processing machines and packaging machines
- Laboratory technology
- Notes:

The driver function blocks can be obtained free of charge on the In-ternet at www.phoenixcontact.net/products under Download on the product page of the corresponding module. 1) EMC: Class A product, see page 553



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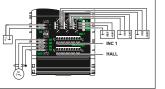
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Interface Inline local bus

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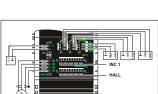
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Servo controller for 24 V motors with positioning and homing function



Technical data

Interface				
Inline local bus	Inline data jumper			
Startup and diagnostics	RS-232			
Power supply for module electronics				
Communications power UL	7.5 V DC (via voltage jumper)			
Current consumption from UL	Typ. 30 mA			
Power supply				
Connection method	2-pos. COMBICON connector			
Supply voltage range	12 V DC 48 V DC $\pm$ 15% (surge voltage shutdown U <sub>S</sub> > 60 V DC)			
Motor output				
Output name	1 permanently excited DC motor with or without brushgear			
Connection method	4-pos. COMBICON plug with shield connection clamp			
Nominal current range	max. 10 A (starting/continuous current)			
Nominal motor power	450 W (power consumption)			
Function	4 quadrant servo controller			
Incremental encoder input				
Symmetrical incremental encoders				
Input frequency (5 V)	max. 1 MHz			
Asymmetrical incremental encoders				
Input frequency (5 V) / Input frequency (24 V)	max. 500 kHz (at 4 V voltage level) / max. 100 kHz (at 20 V voltage level)			
Digital inputs				
Number of inputs	3			
Connection method	MINI COMBICON			
Connection technology	3-wire (signal, Us, GND)			
General data				
Connection method	Screw connection			
Connection data solid/stranded/AWG Front MSTB	0.2 2.5 mm <sup>2</sup> / 0.2 2.5 mm <sup>2</sup> / 24 - 12			
Connection data solid/stranded/AWG Front MC	0.14 2.5 mm² / 0.2 2.5 mm² / 28 - 16			
Weight	880 g			
Width	97.6 mm			
Ambient temperature (operation)	-25 °C 55 °C			
	Ordering data			
			Pcs./	
Description	Туре	Order No.	Pkt.	
Inline variable frequency drive, including connector plug				
- For DC motors with brushgear and EC motors (without brushgear)	IB IL EC AR 48/10A-PAC <sup>1</sup> )	2819587	1	
	Accessories			
Startup and diagnostic software, including cable for connecting to the RS-232 interface of a PC	EC AR CAB SW TOOL	2819545	1	
Connector set, including shield connection clamps	IB IL ECAR-PLSET	2819561	1	



I/O systems

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- Quote per purchase volume in real time.
- Online documentation and datasheets of all products.
- Estimated delivery time enquiry in real time.
- Logistics systems for the shipment of materials almost anywhere in the world.
- Purchasing management, order record and tracking of shipments.

# To access the product, <u>click on the green button</u>.

Product	Code	Reference	Product link
Startup and diagnostics software for the Inline servo amplifier IB IL EC AR 48/10A, including cable for connection to the RS-232 interface of a PC.	2819545	EC AR CAB SW TOOL	Buy on EAN
Connector set, including shield connection clamps for Inline servo amplifier IB IL EC AR 48/10A	2819561	IB IL ECAR- PLSET	Buy on EAN