

Application I/O PT

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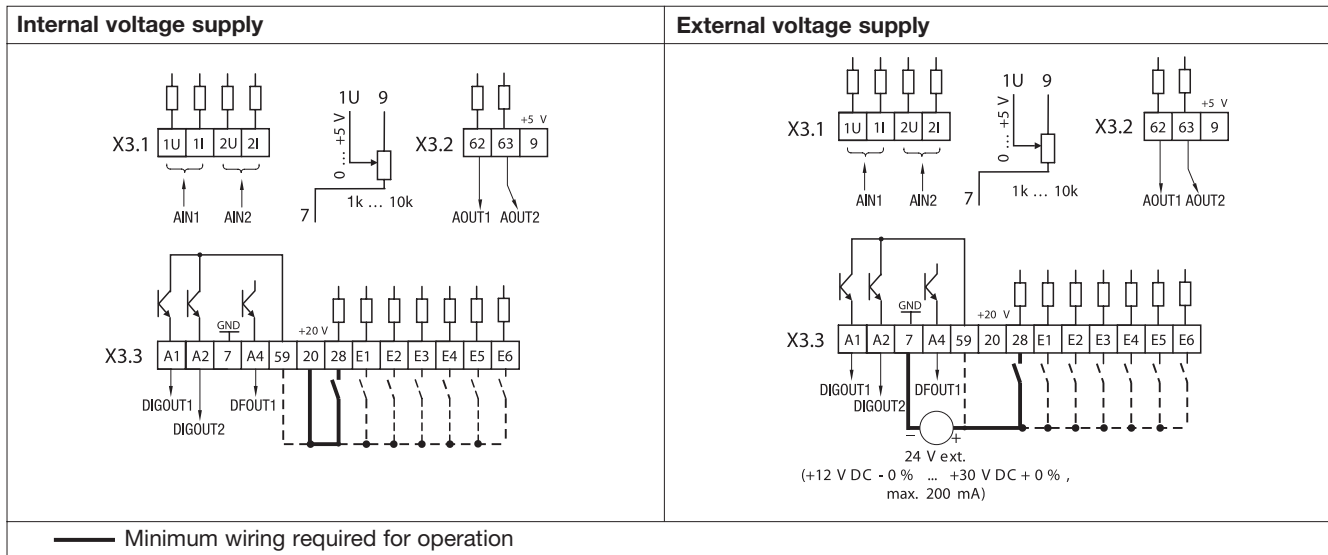
The function module provides the inverter with digital input and outputs for complex applications. A plug-in spring-clamp terminal (PT version) enables cable cross-sections of up to 1.5 mm² to be connected quickly and easily without the need for ferrules. Due to the plugged-on spring-clamp terminal strip, the function module juts out approx. 13 mm of the front panel of the frequency inverter. The module is also available in a basic version without plug-in terminal.

Available input and output terminals

Analog IN	Analog OUT	Digital IN	Digital OUT	Frequenz OUT
2	2	6 ¹⁾	2	1

¹⁾ Can include 1 frequency input (0...102.4 kHz, single-track or two-track)





Terminal assignment



Application I/O PT

X3	Signal type	Function (bold = Lenze setting)	Level	Technical data		
1U/ 2U	Analog inputs	Actual or setpoint value inputs (master reference voltage)	0 ... +5 V 0 ... +10 V -10 V... +10 V	Resolution: 10-bit Linearity error: ±0.5%		
1I/2I		Actual or setpoint value inputs (master reference current)	0 ... +20 mA +4 ... +20 mA +4 ... +20 mA (monitored for open circuit)	Input resistance – Voltage signal: > 50 kΩ – Current signal: 250 Ω		
62	Analog outputs	Output frequency	0... +10 V 0 ... +20 mA +4 ... +20 mA	Resolution: 10-bit Linearity error: ±0.5% Temp. sensitivity: 0.6% (0 ... +60°C)		
63		Motor current		Load capacity: (0...+10 V): max. 2 mA RL (0/4...20 mA) ≤ 500 Ω		
28		Controller inhibit	1 = START	Input resistance: 3.2 kΩ 1 = HIGH (+12...+30 V) 0 = LOW (0...+3 V) (PLC level, HTL)		
E1 ¹⁾	Digital inputs	Activation of fixed frequencies (JOG)			E1	E2
E2 ¹⁾		JOG1 = 20 Hz	JOG1		1	0
		JOG2 = 30 Hz	JOG2		0	1
		JOG3 = 40 Hz	JOG3		1	1
E3		DC brake (DCB)	1 = DCB active			
E4		Reversal of direction of rotation Clock./counter-clock. rotation (CW/CCW)			E4	
		CW	0			
		CCW	1			
E5		Not pre-configured	–			
E6		Not pre-configured	–			
A1	Digital outputs	Ready for operation				
A2		Not pre-configured	0/+20 V with internal DC 0/+24 V with external DC			
A4	Frequency output	DC bus voltage	HIGH: +18 V... +24 V (HTL) LOW: 0 V		0.05 kHz...10 kHz Load capacity: max. 8 mA	
9	–	Internal, stabilised DC supply for setpoint value potentiometer	+5.2 V		Load capacity: max. 5 mA	
20	–	Internal DC supply for actuation of the digital inputs and outputs	+20 V ±10%		Load capacity: max. 60 mA	
59	–	DC supply for X3/A1 and X3/A2	+20 V (internal, bridge to X3/20) +24 V (external)			
7	–	GND, reference potential	–			

¹⁾ Optional 0...102.4 kHz frequency input, single-track or two-track

Electrical connection	Push-on terminal strip with spring-clamp connection	
Connection options		Rigid: 1.5 mm ² (AWG 16)
		Flexible:
		1.5 mm ² (AWG 16) without ferrules
		1.5 mm ² (AWG 16) with ferrules without plastic sleeve
		0.5 mm ² (AWG 20) with ferrules with plastic sleeve

Tip:

Lenze three-phase AC motors and Lenze geared motors can be supplied with the Lenze pulse encoder ITD21 (512/2048 increments, HTL output signals). This enables two-track rotational speed feedback (tracks A and B) to be set up for the application I/O function module.