

## 4.2.2.3 Connection diagram

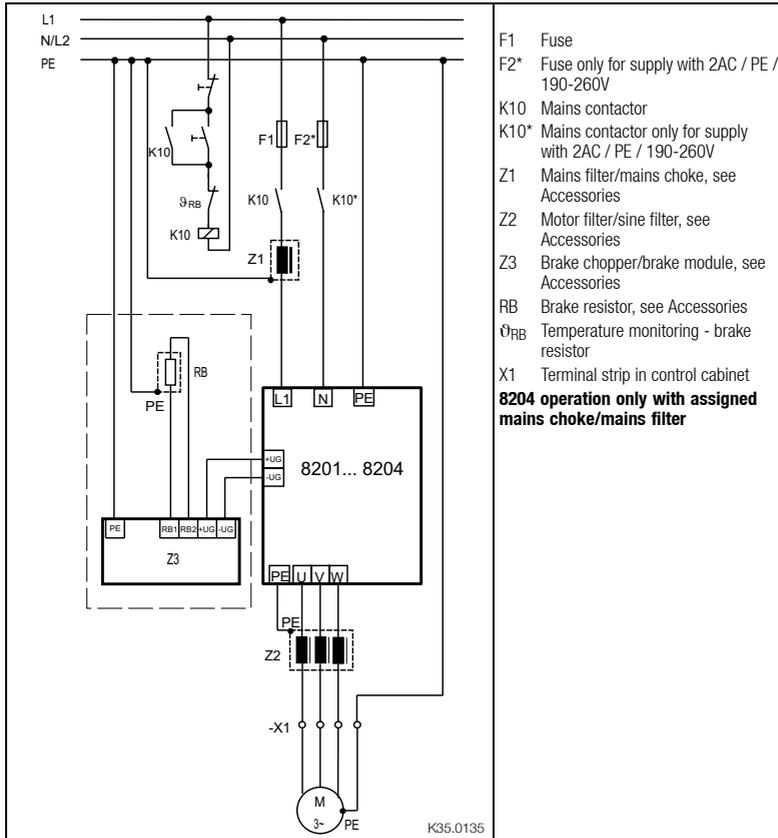
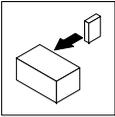


FIG 4-4 820X power connections



## Installation

### 4.2.3 Control connections

#### 4.2.3.1 Control cables

- We recommend the unilateral screening of all cables for analog signals to avoid signal distortion.
- Connect the screens of the control cables as follows:
  - 820X:  
On the front FAST-ON connector.
- If the control cables are interrupted (terminal strips, relays), the screens must be reconnected over the shortest possible distance.
- Connect the fixing screw of the setpoint potentiometer to PE.

#### 4.2.3.2 Assignment of the control terminals

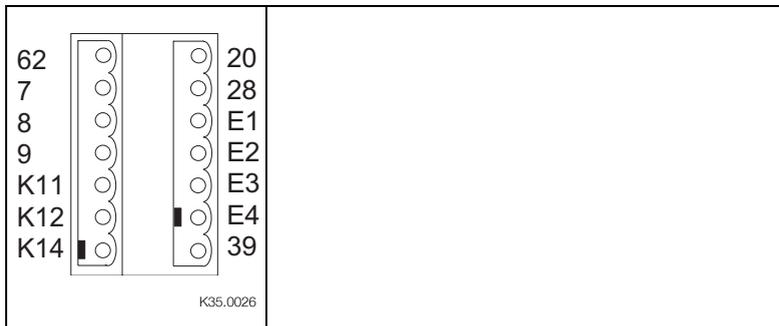
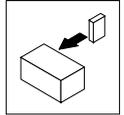


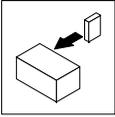
FIG 4-5 Position of the control terminals

# Installation



	Terminal	Use (Factory setting is printed in bold)	Level	Data
Analog inputs	7	GND 1		
	8	Setpoint input, reference: Terminal 7 <b>(0 to 10V)</b>	<p>5 - 6 4 to 20 mA 0 to 5 V 0 to 10 V</p> <p>1 - 2</p> <p>Jumper</p>	Resolution: 9 bit Linearity fault: $\pm 0.5\%$ Temperature fault: 0.3 % (0...+40 °C) Input resistance <b>Voltage signal: &gt; 100 k<math>\Omega</math></b> Current signal: 250 $\Omega$
	9	Supply for setpoint potentiometer	5.2V / 6mA	
Analog output	62	Analog output, reference: terminal 7 <b>(Field frequency)</b>	0... 6 V / 2 mA	Resolution: 8 bit
Digital inputs	20	Voltage supply for digital inputs 12 V/20 mA		
	28	Controller enable	HIGH	HIGH: 12 V ... 30 V LOW: 0 V ... 3 V
	E4	<b>CW rotation/ CCW rotation (CW/CCW)</b>	CW: LOW CCW: HIGH	
	E3	<b>DC-injection brake</b>	HIGH	
	E2	<b>JOG frequencies</b>	Binary code	
	E1	<b>20Hz, 30Hz, 40Hz</b>		
	39	GND 2 (reference for external voltages)		

	Terminal	Use (Factory setting is printed in bold)	Relay position (switched)	Data
Relay output K1	K 11	Relay output normally-closed contact <b>(TRIP)</b>	opened	24 V AC / 3,0 A or 60 V DC / 0.5 A
	K 12	Relay mid-position contact		
	K 14	Relay output normally-open contact <b>(TRIP)</b>	closed	



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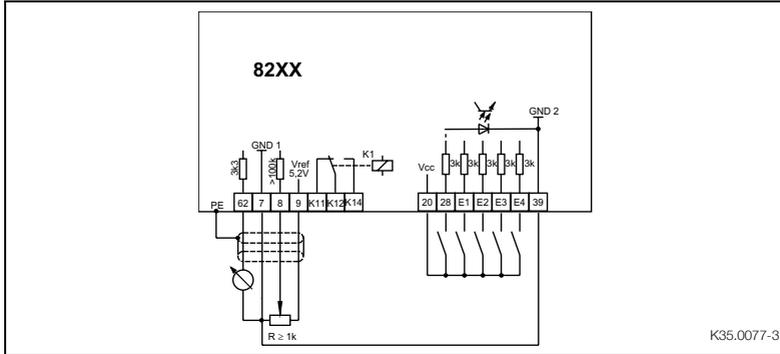


FIG 4-6 Control connections: Supply with internal control voltage

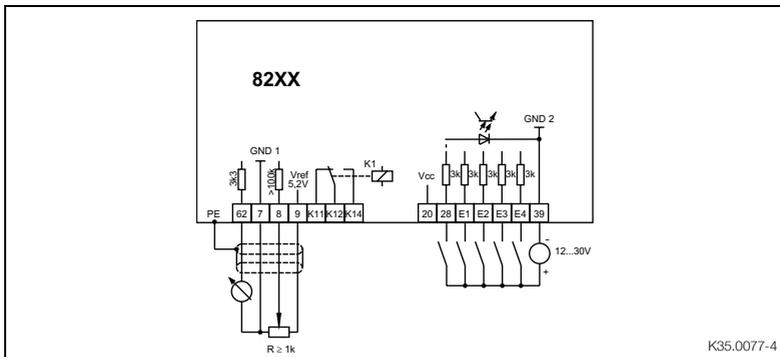


FIG 4-7 Control connections: External voltage supply (+12 V ... +30 V)

GND1 Reference for internal voltages

GND2 Reference for external voltages

GND1 and GND2 have a potential isolation inside the unit.