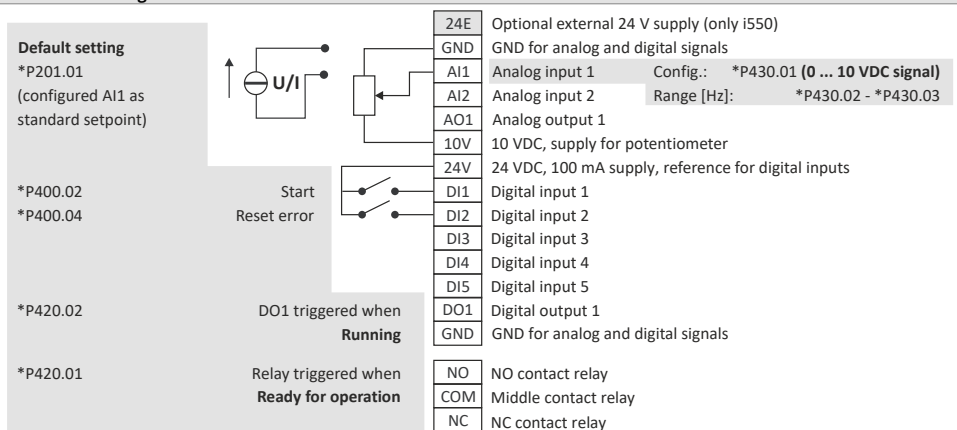
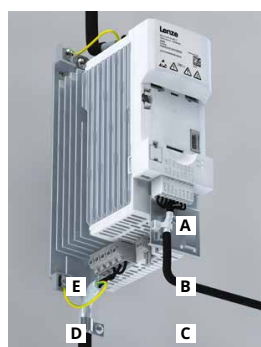


Electrical installation

Flexible I/O configuration

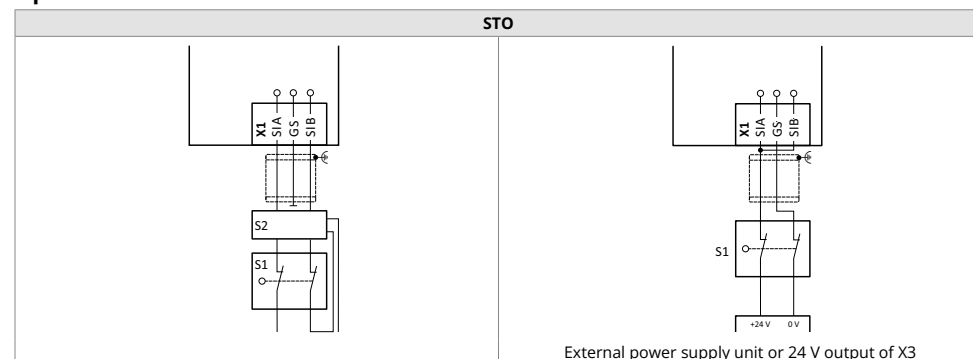


- A Shielding of control connections
- B Control cable
- C Mains cable
- D EMC cable gland
- E Low-capacitance motor cable



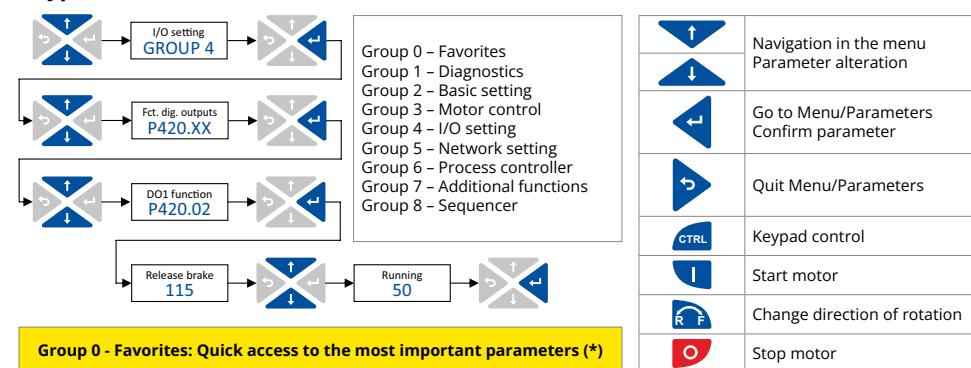
- A Shielding of control connections
- B Control cable
- C Mounting plate with conductive surface
- D Shield connection for motor cable (alternatively: shield connection on an optional motor shield plate)
- E Low-capacitance motor cable

Optional STO installation



- The transmission of the pulse width modulation is safely switched off by STO. The power drivers no longer generate a rotating field.
- The motor is safely switched to torqueless operation

Keypad control



Group 0 - Favorites: Quick access to the most important parameters (*)

Basic setup (V/f mode)

Parameter	Description	Default	Proposal	Comment
P700.01	Load default settings	0	1	
P210.00	Minimum frequency	0.00	25.00	
P211.00	Maximum frequency	50.00	70.00	
P220.00	Acceleration time 1	5.00	0.80	Fast acceleration for correct lubrication up to 25 Hz
P221.00	Deceleration time 1	5.00	2.00	
P222.00	Acceleration time 2	5.00	10.00	
P223.00	Deceleration time 2	5.00	10.00	
P224.00	Auto-changeover threshold of ramp 2	0.00	25.00	
P316.02	V/f voltage boost: Boost at acceleration	0.00	2.50	For a quicker start-up
P320.04	Motor parameter: Rated speed	1450	1450	According to the motor nameplate
P320.05	Motor parameter: Rated frequency	50	50	According to the motor nameplate
P320.07	Motor parameter: Rated voltage	400/480	400/480 V	According to the motor nameplate
P322.00	Max. motor speed	6075	2450	According to the motor nameplate
P323.00	Motor parameter: Rated current	variable	45.70	According to the motor nameplate
P400.01	Enable inverter	0	1	
P400.02	Run	0	11	Digital input 1
P420.01	Digital output function: Relay	51	51	Ready for operation
P420.02	Digital output function: DO	115	50 Alternatively: 155	Drive is "running" Alternatively: STO active
P700.03	Save user data	0	1	Saves parameters to memory module

Optimization

Parameter	Description	Default	Proposal	Comment
P300.00	6	4	Motor control mode	SLVC (Sensorless Vector Mode)
P301.00	2	1	SLVC operating mode	Change from speed to torque mode
P327.04	0	1	Autotuning	Activation

Diagnostics

Diagnostics		
*P100.00 Output frequency [Hz] P102.00 Frequency setpoint [Hz]	*P103.00 Actual current [%] (100 % = Rated motor current)	P125.01 Active control source P125.02 Active setpoint source

LED "RDY" (blue)	LED "ERR" (red)	State/meaning
off	off	No supply voltage
		Initialization (drive is started)
 blinking	off	Safe torque off (STO) active. The drive has been disabled by the integrated functional safety. (Optional, i550 only)
	 blinking fast	Safe torque off (STO) active, warning present. The drive has been disabled by the integrated functional safety. (Optional, i550 only)
 blinking	off	Drive disabled
	 blinking fast	Drive disabled, warning present.
		Drive disabled, error active.
	 on briefly every 1.5 s	Drive disabled, no DC-bus voltage.
	off	Drive enabled. The motor rotates according to the specified setpoint or quick stop active.
	 blinking fast	Drive enabled, warning present. The motor rotates according to the specified setpoint or quick stop active.
	 blinking	Drive enabled, quick stop active as response to a fault.

Error message	Cause (W. = Warning, T. = Fault, F. = Error)	Remedy
.2382/.2383	Ixt error/Ixt warning	Reduce load, adapt ramps
.3210/.3211	Overvoltage DC bus/ Warning overvoltage DC bus	Reduce dynamic performance of the load profile, check mains voltage and settings for brake energy management
.3220/.3221	Undervoltage DC bus/ Warning undervoltage DC bus	Check mains voltage, DC-bus voltage (P105.00), mains settings, and fuses
.3222	DC-bus voltage too low for switch-on	
.4310	Motor overtemperature problem (PTC)	Check ambient temperature and motor load
.6280	Trigger/functions incorrectly connected	If Flexible I/O configuration (*P200.01) is active, Enable inverter (*P400.01) or Start (*P400.02) must be assigned to an I/O. Do not use Start forwards/reverse and Run forwards/reverse at the same time!
.FF37	Automatic start inhibited	Deactivate starting command and reset error