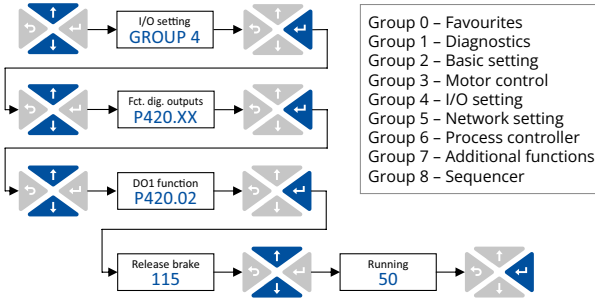


Operation of keypad

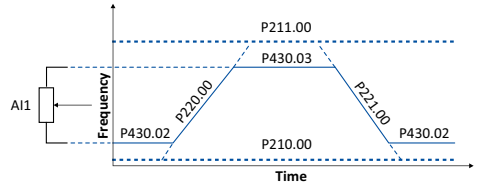


	Navigation in the menu
	Parameter alteration
	Go to Menu/Parameters
	Confirm parameter
	Quit Menu/Parameters
	Keypad control
	Start motor
	Change direction of rotation
	Stop motor

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

Procedure during commissioning

1. Load default setting: Set P700.01 = 1
2. Select language: P705.00 (1 = English; 2 = German)
3. Basic setting V/f characteristic control:
 - *P208.01 Set mains voltage
 - *P303.01 Basic voltage = Rated motor voltage
 - *P303.02 Basic frequency = Rated motor frequency
 - *P210.00 Minimum frequency [Hz]
 - *P211.00 Maximum frequency [Hz]
 - *P220.00 Acceleration time [s]
 - *P221.00 Deceleration time [s]
 - *P430.02 Analog input 1: Min frequency value [Hz]
 - *P430.03 Analog input 1: Max frequency value [Hz]



Control of inverter by means of keypad

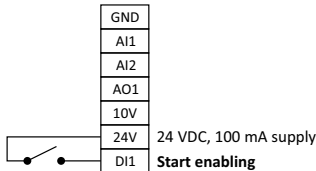
Set parameters:

- *P200.00 = 1 (Keypad as control source) or
- *P201.01 = 1 (Keypad as setpoint source)

Operation:

	Reverse direction of rotation
	Change frequency setpoint
	Start/stop motor

Connection I/O terminals:

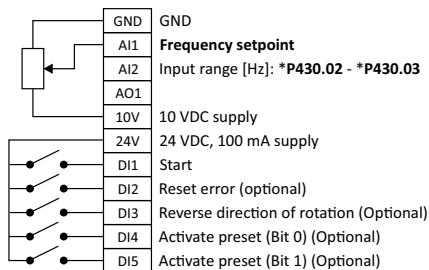


Control of inverter by means of terminals (default setting)

Set parameters:

- *P450.01 Frequency setpoint presets: Freq. preset 1 [Hz]
- *P450.02 Frequency setpoint presets: Freq. preset 2 [Hz]
- *P450.03 Frequency setpoint presets: Freq. preset 3 [Hz]

Connection I/O terminals:



Save parameter settings in the user memory of the memory module

	Save parameter settings: Press keypad enter key longer than 3 s	Keypad display: flashes = Parameter settings not saved on = Parameter settings saved
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Flexible I/O configuration

Default setting *P201.01 (configured AI1 as standard setpoint)		24E	Optional external 24 V supply (only i550)													
		GND	GND for analog and digital signals													
		AI1	Analog input 1	Config.:	*P430.01 (0 ... 10 VDC signal)											
		AI2	Analog input 2	Range [Hz]:	*P430.02 - *P430.03											
*P400.02 *P400.04 *P400.13 *P400.18 *P400.19 *P420.02 *P420.01	Start Reset error Reverse direction of rotation Activate preset (bit 0) Activate preset (bit 1) DO1 triggered when Release brake Relay triggered when Ready for operation set	AO1	Analog output 1													
		10V	10 VDC, supply for potentiometer													
		24V	24 VDC, 100 mA supply, reference for digital inputs													
		DI1	Digital input 1	<table><tr><th>bit 1</th><th>bit 0</th><th>Frequency presets</th></tr><tr><td>0</td><td>1</td><td>Preset 01 (*P450.01)</td></tr><tr><td>1</td><td>0</td><td>Preset 02 (*P450.02)</td></tr><tr><td>1</td><td>1</td><td>Preset 03 (*P450.03)</td></tr></table>	bit 1	bit 0	Frequency presets	0	1	Preset 01 (*P450.01)	1	0	Preset 02 (*P450.02)	1	1	Preset 03 (*P450.03)
		bit 1	bit 0		Frequency presets											
		0	1		Preset 01 (*P450.01)											
		1	0		Preset 02 (*P450.02)											
		1	1	Preset 03 (*P450.03)												
		DI2	Digital input 2													
		DI3	Digital input 3													
DI4	Digital input 4															
DI5	Digital input 5															
DO1	Digital output 1															
GND	GND for analog and digital signals															
*P420.01		NO	Relay NO-contact													
		COM	Relay Middle contact													
		NC	Relay NC-contact													

- Set **Standard setpoint source** (*P201.01).
- **Activate quick stop** (*P400.03): Brings the motor to a standstill within the deceleration time set in P225.00.
- **Jog forwards** (P400.10) and **Jog reverse** (P400.11): Initiate status-controlled motor rotation forwards with frequency preset 05 (P450.05) or reverse with frequency preset 06 (P450.06).
- **Reverse direction of rotation** (*P400.13): Invert frequency setpoint.

Diagnostics

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

LED "RDY" (blue)	LED "ERR" (red)	State/meaning
off	off	No supply voltage
		Initialisation (inverter is started)
	off	Safe torque off (STO) active. The inverter has been disabled by the integrated functional safety. (Optional, i550 only)
		Safe torque off (STO) active, warning present. The inverter has been disabled by the integrated functional safety. (Optional, i550 only)
	blinking fast	Safe torque off (STO) active, warning present. The inverter has been disabled by the integrated functional safety. (Optional, i550 only)
	off	Inverter disabled
		Inverter disabled, warning present.
	blinking fast	Inverter disabled, error active.
		Inverter disabled, error active.
	on briefly every 1.5 s	Inverter disabled, no DC-bus voltage.
	off	Inverter enabled. The motor rotates according to the specified setpoint or quick stop active.
		Inverter enabled, warning present. The motor rotates according to the specified setpoint or quick stop active.
	blinking fast	Inverter enabled, warning present. The motor rotates according to the specified setpoint or quick stop active.
		Inverter enabled, quick stop active as response to a fault.
	blinking	Inverter 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, check settings for brake energy management
.3220/.3221	Undervoltage DC bus/ Warning Undervoltage DC bus	Check mains voltage, check DC-bus voltage (P105.00), check mains settings, check fuses
.3222	DC-bus voltage to low for switch-on	
.4310	Motor overtemperature problem (PTC)	Check ambient temperature and motor load
.6280	Trigger/functions incorrectly connected	In the case of Flexible I/O configuration (*P200.01), Inverter enable (*P400.01) or Start (*P400.02) must have been 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