

## Frequency Inverters ROfre 897 (for 3-phase current Drives)

Frequency Inverters for controlling and speed setting of 3-phase motors.

- Protection class IP 54, i.e. can be used outside electrical cabinet.
- Completely wired with 2 m screened motor cable, 2 m mains cable with plug and potentiometer.
- Optional with integrated emergency-stop switch (right picture).
- Optional with selector switch for left-right.
- Optional with socket for external operation.



With Power Cable

With Power Cable and  
Emergency-Stop Button

Ordering details: e.g.: 460 410 25, Frequency Inverter ROfre 897, without Emergency Stop, Output Power 0.25 kW

Prod. No.	Emergency Stop	Output Power kW	Output Voltage V	Output Current A	Input Voltage V	Input Current A	Input Fuse Protection A	Dimensions H x B x T mm	Weight kg
460 410 25	No	0,25	3 x 0-240	1,4	1 x 230	3,0	16	200 x 130 x 120	2,2
460 410 37	No	0,37	3 x 0-240	2,3	1 x 230	5,2	16	200 x 130 x 120	2,2
460 410 75	No	0,75	3 x 0-240	4,2	1 x 230	9,4	16	200 x 140 x 140	2,6
460 510 25	Yes	0,25	3 x 0-240	1,4	1 x 230	3,0	16	200 x 130 x 120	2,2
460 510 37	Yes	0,37	3 x 0-240	2,3	1 x 230	5,2	16	200 x 130 x 120	2,2
460 510 75	Yes	0,75	3 x 0-240	4,2	1 x 230	9,4	16	200 x 140 x 140	2,6

### Output

- Rotating-field frequency 0-200 Hz.
- Voltage boost 10%.
- Overload 150%  $I_n$  / 60s.

### Input

- Voltage 1 x 230 V +/- 10% 50/60 Hz.

### Control unit

- Cycle rate: 4-16 kHz, adjustable in steps.
- Stop functions: Ramp (0.1-999s), DC braking, coast.
- Protection systems: Surge current (200%  $I_n$ ), overload, IGBT excessive temperature, overvoltage, undervoltage.
- Analog input\*: 0-10 V, 0-20 mA or 10kOhm potentiometer.
- Analog output\*: 0-10 V (with current output frequency).
- Digital input\*: Dry contacts or external 24 V DC industrial logic for start up, reversion of rotation. 2 programmable inputs (inching mode, fixed setpoint, emergency stop, reset, external control).
- Digital output\*: Dry contact, programmable.
- Monitoring: Short circuit phase-phase or phase-earth.

\* Only for optional version with socket for external operation.

### Displays / Operating elements

- Control keys: Setting of system functions.
- Display: Operating mode and error message.
- Setpoint potentiometer: For continuous adjustment of speed.

### Environment

- Ambient temperature: -10...+40°C.
- Cooling: Convection.
- Rel. humidity: 0...95% not condensing.

### Mechanic

- Protection class IP54.

### EMC

- Filter class A included.

### Diagnostic memory

- Retrieval of the last 3 operational faults.