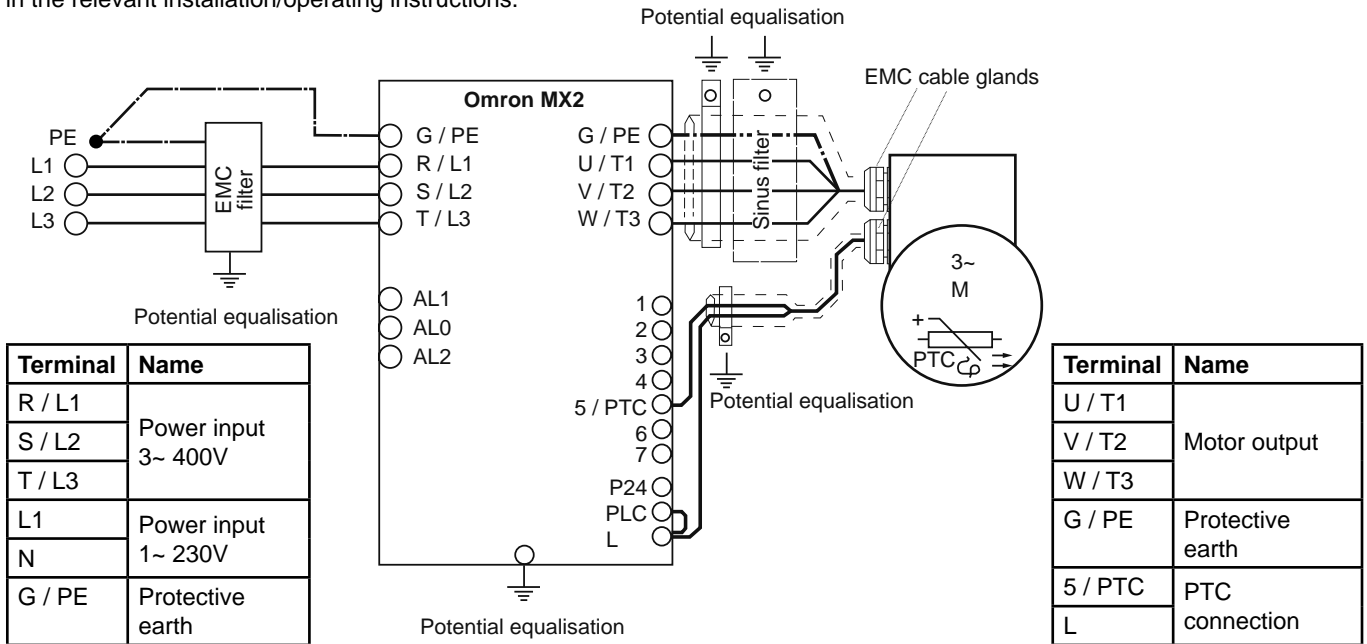
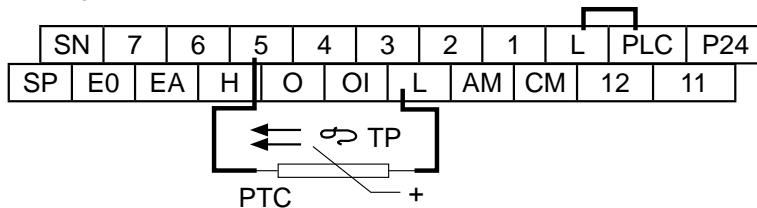


Initial operation with Elektor basic parameter assignments

1. Inspect for damage and check that the mains supply voltage agrees with the data for the converter.
2. Check for competent installation, electrical connections, screening and potential equalisation of the ventilator/side channel blower, as well as the frequency converter with EMC footprint filter and possibly accessories in accordance with specifications in the relevant installation/operating instructions.



3. Check for competent electrical connection of the PTC thermistor detector (TP) or temperature controller break-contact (TB) of the ventilator/side channel blower to the frequency converter control terminals „5“ and „L“ in accordance with specifications in the relevant installation/operating instructions.



4. The device must be checked carefully to ensure it is in a satisfactory state before being put into service the first time or on any subsequent occasion.
5. Engage power
6. Checking / testing of the proper function of the PTC sensors input (see note)

CAUTION!!
 Without the activation of the PTC input, the winding temperature is not monitored, even if the PTC thermistor detector is properly connected. If applicable adjust the parameter C005.

- With key up to parameter display „c001“.
- With key up to parameter display „c005“.
- With key switch from parameter display to parameter value, e.g. „01“.
- With key set the parameter value to „19“.
- With key save and jump back into parameter display „c005“.

By pressing and holding the key for around 3s, the display returns to the initial setting of „output frequency“, e.g. „0.00“.

CAUTION!!
 Without connected PTC resistor respectively temperature controller break-contact the frequency converter must indicate a temperature rise in the motor with the notice „E35_“ in the display. A start-up of the device may only be possible again when the motor has annealed respectively the sensor is connected to low-resistance and the error has been acknowledged by pressing the key „Stop/Reset“. If applicable adjust the parameter C005 and/or find another cause.

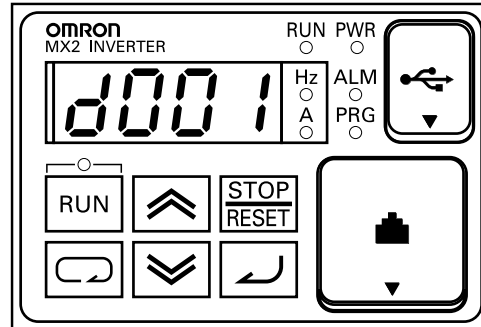
7. After pressing the **RUN** key, the device starts provided all other switch-on conditions are met, no error messages are active and a desired value is stored in parameter F001. The rotor then accelerates in keeping with the programmed run-up time until the desired value stored in parameter F001 is reached.

8. Check the device's direction of rotation and, if need be, get it corrected by an expert after isolating from the supply.

Operation with Elektor basic parameter assignments

The factory pre-programmed Elektor frequency converter is configured to allow simple control and frequency adjustment using the integrated control panel.

- Start/Stop with control panel („Run“ + „Stop/Reset“ keys)
- Maximum frequency = Motor rated frequency
- Display of the current cyclic frequency
- Where activated, monitoring of the winding temperature by PTC thermistor or temperature controller break-contact with automatic safety cut-off
- Relay contact operates in the event of alarm (TRIP)
- Desired frequency = Parameter value in F001
- Desired value alterable via the control panel.



up to parameter display „F001“



switch to parameter value (= desired frequency value) e.g. „50“ Hz



proceed to desired frequency value



saves new desired value and jumps back into parameter display



pressing and holding for around 3s resets the display into the initial setting of „cyclic frequency“.

- After pressing the **RUN** key, the device starts provided all other switch-on conditions are met, no error messages are active and a desired value is stored in parameter F001. The rotor then accelerates in keeping with the programmed run-up time until the desired value stored in parameter F001 is reached.

Indicator lamps on the control panel:

- RUN:** On = Converter output or motor is switched on
- PWR:** On = Converter's voltage supply is ok
- ALM:** On = Error active. In addition, an error code is displayed
- PRG:** On = Parameter value is alterable

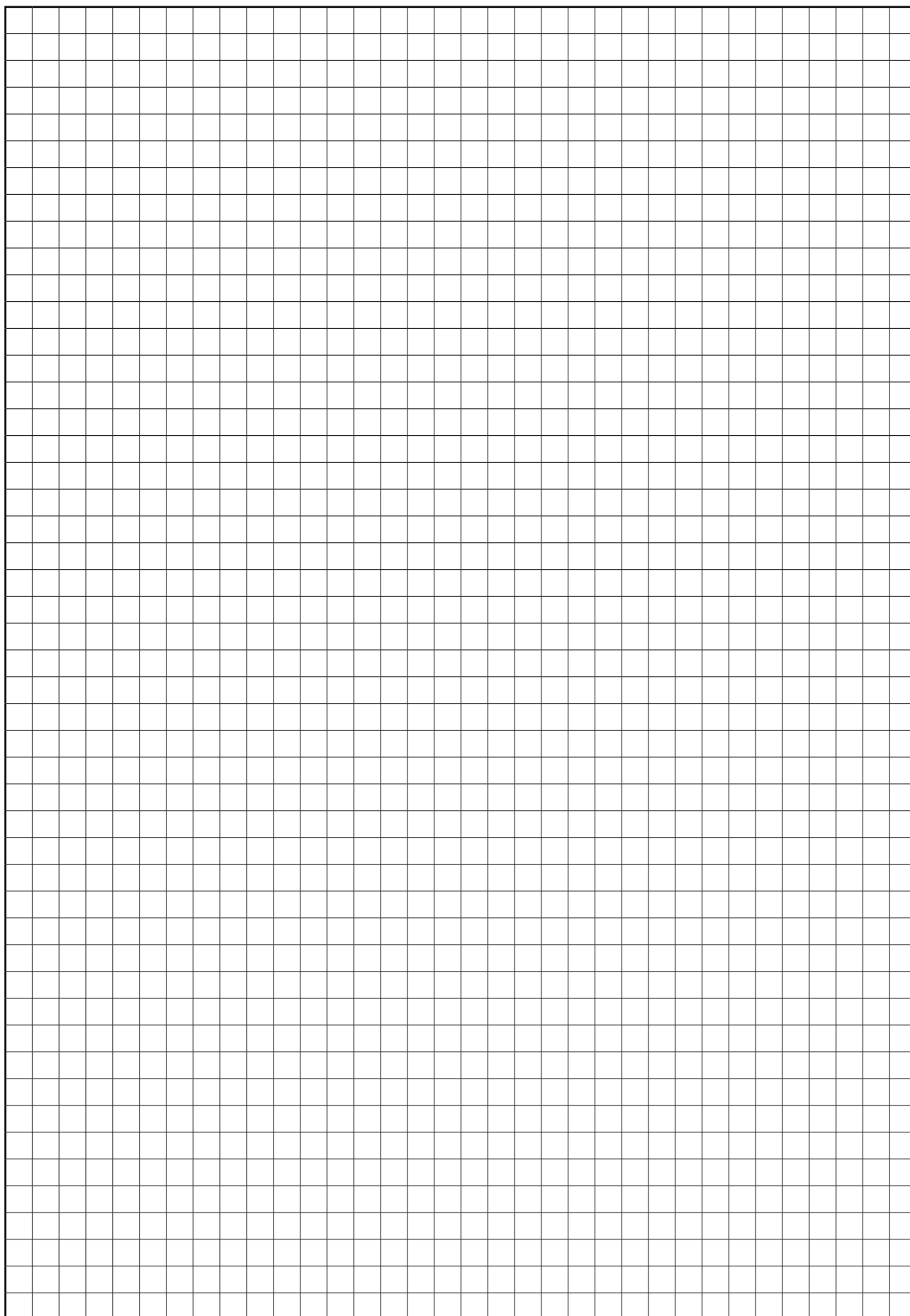
Elektor basic parameter assignments:

Para	Description	Parameter value
A001	Selection of frequency setpoint source	02: Control panel
A002	Selection of start command source	02: Control panel
A004	Maximum frequency	For rated frequency, see rating plate
A003	Corner frequency	For rated frequency, see rating plate
A082	Motor voltage	For rated frequency, see rating plate
B012	Current value for i ² t monitoring	For rated current, see rating plate
B035	Rotating direction	01: only forward
B049	Control mode [(HD/ND-mode)	01: Increased rated power; (Pump/Fan; Normal Duty; ND) With close
B083	Clock frequency	10 kHz
C005	Multifunction input 5/PTC	19: PTC active
F001	Desired rotary speed	0... max. rated freq. see rating plate
F002	Rotary speed run-up time	10s (longer for larger devices)
F003	Rotary speed run-down time	20s (longer for larger devices)
H003	Motor rated output	For rated output, see rating plate
H004	Number of motor poles	2

FÜR IHRE NOTIZEN / FOR YOUR NOTES

A large grid area for taking notes, consisting of many small squares. The grid is approximately 30 columns wide and 40 rows high, providing a structured space for writing or drawing.

FÜR IHRE NOTIZEN / FOR YOUR NOTES



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