

HAEFELY TEST AG

3.1.1 1 FC-2000

Frequency Converter, 2000 kVA, 50 & 150 Hz including 1000 kVA Insulation Transformer and Sinus Filter

Fully digitized pulse inverters with voltage vector control designed and manufactured according IEC standards. Operation, monitoring and parameter setting via field bus interface and conventional interface.

Compact unit with input/output filter for reduction of radio interference and output voltage spikes; additional smoothing choke for limitation of harmonic currents.



Additional Features

- Mains interference, the integrated line reactor reduces the line side harmonics at customer's end.
- The shut down concept of the inverter allows the shut down of installation without main contactor
- 10 % short time overcurrent operation *
- Overload protection by current limiting control
- Output sinus filter and dual processor technology to reduce harmonics THD on the output less than 3 %
- Clear operation and settings on the menu-driven 4-line plain text display with mebrane-keypad or remote controlled by external control console
- For protection normal fuses will suffice
- Protection class IP21
- Acoustic Noise 80 dB(A)

* System protection is designed to allow only operation at nominal conditions.

Safety Concept

In case of a failure inside the frequency converter overcurrent and ground trip will open the circuit breaker and contactors between frequency converter and step-up transformer immediately. If emergency button is pushed, circuit breaker between ETSA's power supply and isolation transformer will be opened and IGBT's of frequency converter will be blocked.

Electrical Specification

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|------------------------|--|
| Input: | 690 V +10 % / -15 %, 50/60 Hz, 3 phase, max. 1000 kW |
| Output: | 0 – 690 V at 50/60 Hz & 150 Hz |
| Duty: | Continuous @ 2000 kVA 50 Hz and 600 kVA 150 Hz, 3 phases Continuous @ 1160 kVA 50 Hz and 600 kVA 150 Hz, 2 phases |
| Ambient Temperature: | 10 .. 40 °C |
| Air flow requirements: | 7600 m ³ /h |
| Colour: | RAL 7035 |
| Frequency stability: | ± 0.1 % |

Dimensions & weight (approx.)

| | |
|---------|---------|
| Length: | 4412 mm |
| Width: | 605 mm |
| Height: | 2002 mm |
| Weight: | 2500 kg |

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