

Frequency Converter

Type FW-5443 (1~)

Type FW-5444 (3~)

Rated Power 10 up to 500 kVA, 16,7 up to 800 Hz



- Sinusoidal input current (feedback free)
- IGBT rectifier (small THD)
- Event log

Options

- Increased short circuit current

Customer specific designs



GUSTAV KLEIN
POWER SUPPLIES - since 1948

Frequency Converter Type FW-5443 and FW-5444

Design

The new static frequency converter contains proven and approved components from the UPS technology. If you want adjustable output frequency and / or output voltage please refer to our TS-AC brochure.

A clearly construction and a simple maintenance characterize the new power supply system.

Technical Data:

| | | |
|-----------------------------------|--------------------------------------|--|
| Mains voltage: | V | 208/380/400/480/500/660 (3~, PE) 230/460 (1~, PE) +/- 10% without N, 16,7 Hz, 50 Hz or 60 Hz |
| Output voltage: | V | fixed voltage in range 10 – 750 ±1% permanent 1-/3-phase |
| Output frequency: | Hz | fixed frequency 16 2/3, 40, 50, 60, 400,800 Hz |
| Output frequency accuracy: | % | ±0,5 (for some fixed frequencies 0,1% are possible) |
| Rated output power: | kVA | 5 – 500 |
| Voltage regulation | static dynamic asymmetric load | ±1(fs) ±4 at 100% load change (50/60Hz), ±8 (400/800Hz) ±2 at 100% unbalance load |
| Regulation time: | msec | <25 |
| Overload characteristic: | % | 150% for 1 min. / 125% for 10 min. / 110% for 20 min. |
| Short-circuit characteristic | | 2 x I nom., at 1-phase output, 2-4 x I nom., at 3-phase output, for 5s according EN 50091, Part 1 |
| Waveform: | | sinusoidal |
| Distortion factor: | % | ≤ 5 (typical 3) |
| EMC: | | EN 61000-2-4 Line disturbances EN 62040-2 Requirement on EMI (UPS) EN 61000-6-2 Immunity EN 61000-6-4 Emitt. Interference |
| Permissible power factor: | | power derating, if power factor deviates from 0,8 lagging |
| Crest factor of the load current: | | ≤ 2,3 (at 100% Load) |

Standard Design:

| | | |
|----------------------------------|----|---|
| Permissible ambient temperature: | °C | 0 up to + 40 |
| Permissible environment: | | 3K3 according to IEC 60721 (max. 85% rel. humidity, none condensation) |
| Permissible operating altitude: | | 1000 m above m.s.l. with rated load |
| Protection class: | | IP 20 according to IEC 60529 |
| Paint finish: | | RAL 7035 |
| Cooling: | | “AN” natural air cooling or „AF“ forced air cooling depended on rated power |

For your requirements / specifications we are pleased to prepare an individual system configuration.

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Subject to change without notice

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