

# ME3 Frequency Converter

Three Phase Output - 10kW - 100kW

**MAGNUS**  
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A Division of Aker Kvaerner



These systems are designed to operate at fixed values of output voltage and frequency. A common application is the conversion of three phase power to a different frequency, with a change of voltage if required.

Systems up to 30 kW can be built as a single phase to three phase converters.

Output 50Hz, 60Hz or 400Hz can be specified throughout the range.

An extra cost option allows two units with 50Hz or 60Hz output to operate in parallel, for output of up to 200kW or a dual redundant system.

The illustration shows a 40 - 60kW unit, higher powered units are wider and lower powered units are shorter.

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## Product Range

kW	10	15	20	30	40	50	60	80	100
kg	275	285	325	400	480	550	680	820	950
Size	530w 750d 1000h		728w 800d 1440h			1450w 800d 1440h			

*Delivered equipment may differ slightly from this description, either as a result of continuous product development, or in the event of any errors not detected when this document was last updated, on 8th February 2005.*



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## Specification for ME3 Frequency Converter

Input	380/400/415V +10%-15% 3 phase + Neutral 50/60Hz Power Factor 0.9 at light loads improving to near unity at full Load Single phase input option for units up to 30kW
Output	200/380/400/415/440V 3 phase + Neutral 50/60/400Hz +/- 0.1% Lead power factor range 0.5 lagging to 0.5 leading Other outpt voltages and frequencies to special order.
Regulation	1% for gradual changes of load over full range of output 5% for 100% step change of load, recovering to normal within 40mS
Output waveform	Sinusoidal, Total harmonic distortion < 3% for linear load >10% of rating
Efficiency	>90%
Overload capability	120% for one min 200% for five cycles
Operating Environment	0-40 degrees, <90% (non-condensing), <55dBA at 1m, 10kW - 30 kW units are on coasters. either can be placed against the wall. Allow 300mm at rear for cabling access and airflow (IP21) 40kW units and above are on legs for fixed installation. No clearance required at side or at rear, cable access via gland plate in base.

- Low distortion sine wave output allows use with wide range of loads.
- Advanced design gives high efficiency, even when lightly loaded.
- High frequency IGBT technology ensures quiet operation.
- Input power factor correction is standard on all models.
- Short-term overload capability to assist starting of difficult loads.
- On-site service by our own engineers, tailored to your requirements.

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