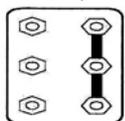




### Starting-up

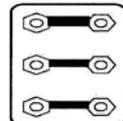
Before putting into operation, make sure that neither equipment nor supply cable show any signs of exterior damage. To ensure proper cooling, do not expose the equipment to direct sunlight if possible and be sure to provide sufficient all-round ventilation.

The converter is designed for connection to a 400 V three-phase system. For 230 V three-phase system operation the motor must be set accordingly. To do this, open terminal box cover, unscrew nuts on terminal board [3] and rearrange clamps as follows (also see Illustration on terminal box cover):



⇒ clamp arrangement for **400 V** ≈  
[△ star / Y connection of the motor]

(factory presetting)



⇒ clamp arrangement for **230 V** ≈  
[△ delta / Δ connection of the motor]

Make sure that the equipment is connected only to a supply system indicating the voltage required by the specific connection of the motor. After setting the switch [15] to „on“ position, the motor runs up and the CEE-type sockets [10] will be powered. Given an output voltage of 42 V, the total phase current of compressors to be connected to the converter's output (low tension side) should not exceed 40 A (continuous operation), corresponding to an output power of 3 kVA.

### Safety Devices

Safety of personnel charged with the Operation of equipment is sufficiently guaranteed by galvanic Separation from supply System (motor- / generator linkage).

In case of overload (> 6,3 A primary current) the motor safety switch [15] will break the circuit. Before starting up again allow some time for motor to cool down.

### Dismantling / Maintenance

The converter is largely maintenance-free except for wearing parts such as bearings, switches or plug boxes.

Skilled technicians must carry out replacement of electrical connection components.

The frequency converters generator is permanently agitated. In case of necessary replacement of fan blade [19] or bearing [4] make sure that neither the generator's field spider nor rotor [1] are removed from the generator [12] without rotor end ring (magnetic short circuit) as otherwise the permanent magnets will be weakened. Suitable rotor end rings are available as spare parts.

### Specifications

Dimensions:	50 cm x 20 cm x 34 cm [length x width x height] (excluding tubular frame)
Weight:	52 kg (excluding frame)
Connection:	primary 1,5 m connection cable excluding plug secondary 2 CEE-type plug boxes / 32 A

#### Connected Loads:

P	= 3 kW		
n	= 2940 rpm		
cos φ	= 0,8		
primary:	Δ / Y 230 / 400 V ≈ - 50 Hz	secondary:	P = 3 kVA
	10 / 6 A ~		U <sub>o</sub> = 48 V ≈ -200 Hz
			or: S = 3 kVA
			or: V <sub>o</sub> = 250 V / ≈ /200 Hz
			or: I = 7,6 A ~