

Worm Geared Motors

The worm geared motors on page 772 to 782 are delivered with the standard voltage 400V for a mains frequency of 50Hz. With help of the enclosed operating capacitor they can however be connected to 230V, 50Hz one-phase mains using the Steinmetz circuit. Please note that with this circuit, the power drops by 30 - 50% below the stated value.

The smaller gearboxes form a completely oil-proof and dust protected unit with the driving motors. The larger gearboxes are designed with ventilation. Before the start of operational use the sealing screw must be exchanged with the supplied venting screw.

All listed worm geared motors have the protection class IP 54 and can be supplied with an electromagnetically controlled disk brake (except for the 45 W motor on page 772). This makes the worm geared motor about 40mm longer.

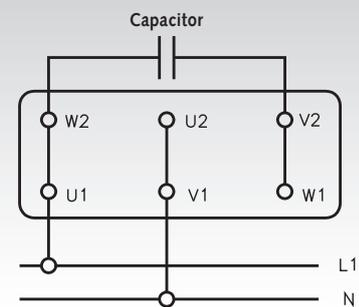
The steel worms used are hardened and ground, while the worm gears are made from high-quality special brass with perfect gliding properties. In most applications, there is no relubrication or change of lubricant required. These worm geared motors are therefore suitable for low-maintenance applications.

Gearbox and shaft position according to the respective dimensional drawing. Required ordering specifications: Type, voltage/frequency with or without operating capacitor, motor data, transmission ratio/output speed, product no.

Steinmetz Circuit

The three-phase motor can be connected to one-phase mains with the circuit pictured on the right using a capacitor! On the following pages the required capacitors are matched with their respective worm geared motors.

To change the sense of rotation the phase L1 has to be disconnected from the terminal U1 and connected to the terminal W1.



Safety Note

Only qualified personnel should be authorized to work on the worm geared motors always regarding the safety regulations.

Before starting the assembly please read the enclosed operating and maintenance instructions.

Operating Capacitors KST

Aluminium housing, metal-polypropylene. For 30,000 operating hours. According to VDE to 25 μ F. The capacitors have a protective cap made from aluminium and a 180mm cable connected on the side. On the bottom there is a mounting screw with toothed lock washer and nut.

Technical Data:

Capacity tolerance $\pm 10\%$.

Frequency 50 to 60 Hz.

Voltage 400 V.

Loss < 0.3%.

Temperature range -25 to +85°C.

Insulation test voltage (2 Sec.) 2.5 kV (to ground).



Product No.	Capacity μ F	\varnothing x Length mm	Weight kg
436 352 00	2,0	26 x 87	0,71
436 356 00	5,0	36 x 105	1,39
436 359 00	10,0	36 x 102	1,18
436 361 00	16,0	45 x 110	1,50
436 362 00	20,0	45 x 123	1,80
436 363 00	25,0	50 x 118	2,00