

HOMA submersible pump motors are designed and wound for 230V (dual voltage motors are 230/460 volt) nominal operating voltage. Reduced voltage operation of HOMA motors within the normal voltage tolerance of +/-10% of the nominal voltage is a recognized practice, and will have no adverse effect on the operation or longevity of the motor.

HOMA three phase motors are quite tolerant of reduced voltage operation, and will generally operate at voltages down to 198 volt without problem.

Name plates on stock pumps are standard 230/460 as this is typically the voltage specified. Operation of these units at a nominal 208 volt supply is common practice and requires no special considerations.

HOMA single phase motors may also be operated below 220V, however, the capacitors required for single phase motor operation are more dependent on the line voltage, and may need to be optimized for the available line voltage. In particular, the start capacitor size may need to be increased by one size if the available line voltage (under load) drops below 200V to assure adequate starting torque. This is particularly important with single phase grinder pumps which may encounter abnormal starting load requirement of the cutter mechanism.

Please contact our Technical Service Department @ 203-736-8890 with any questions or if you require additional information or assistance.