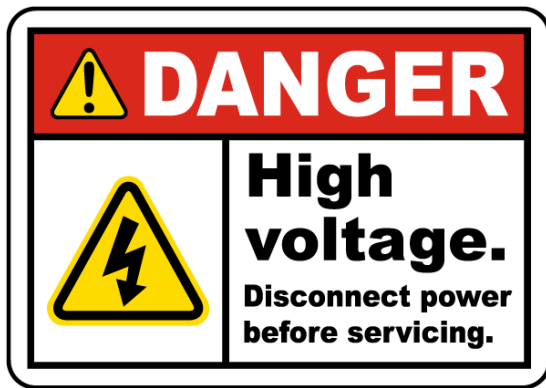




8" SAER MOTORS 3 PHASE SUBMERSIBLE MOTOR SPECIFICATIONS & TESTING PARAMETERS

HORSEPOWER MOTOR DIA. MAKE & RPM	VOLTS	PHASE	Hz	SERVICE FACTOR	FULL LOAD AMPS	MAX LOAD AMPS	LINE to LINE RESISTANCE IN OHMS	LOCKED ROTOR AMPS
20 HP 8" SAER 1800 RPM	230V	3 PH	60 Hz	1.15	58.0	66.7	0.10 - 0.30	N/A
	460V				28.0	32.0	0.90 - 1.1	N/A
25 HP 8" SAER 1800 RPM	230V	3 PH	60 Hz	1.15	70.0	80.5	0.22 - 0.26	N/A
	460V				34.0	40.0	0.87 - 1.07	N/A
30 HP 8" SAER 1800 RPM	230V	3 PH	60 Hz	1.15	80.0	92.0	0.13 - 0.33	N/A
	460V				40.0	45.0	0.70 - 0.90	N/A



IMPORTANT

- ✓ **DO NOT** test Winding resistance with the motor connected to the Control Box or Variable Frequency Drive (VFD).
- ✓ Test the windings by using a Multimeter or Ohmmeter to measure Ohms (Resistance) between Yellow or White to Red, Yellow or White to Black, and Red to Black.
- ✓ Resistance measured between any combination of wires should be a similar value.
- ✓ A bound pump will cause locked rotor amps and over-current fault/shut down. Check for obstructions in the pump and/or the amps on the Black wire at start-up.

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General Recommendations for SAER SUBMERSIBLE INVERTER DUTY MOTORS



SAER MS SERIES WATER-FILLED SUBMERSIBLE MOTORS

INSTALLATION

- Vertical installation only is highly recommended.
- Motor must be completely submersed in water that is completely free-flowing to ensure adequate cooling of internal components.

OPERATING FREQUENCY LIMITS

- Maximum working frequency should never exceed the nominal frequency of the motor.
- Minimum frequency should be calculated to ensure motor cooling and should never be lower than 30Hz.
- Operating at less than 30Hz can cause serious damage to thrust bearings, bushings, and motor windings.

START

- Starting ramp should last approximately 4-6 seconds (from start to reaching the minimum operating frequency of 30Hz)
- A starting ramp that is too short can cause a water hammer on the plant.
- A starting ramp that is too long can cause damage to the motor.

FREQUENCY VARIATION LIMITS PER MINUTE

- Max number of frequency variations in a minute = 6

STOP

Stopping can be achieved in two ways:

- Taking away the power source so that the motor stops by inertia. The inertia method safeguards the motor but can cause the appearance of water hammers.
- Setting a stopping ramp to slowly stop the motor

SERVICE FACTOR

- Variations in power supply voltage must be +/- 5% of the nominal value
- Service factor = 1.15 for 60Hz motors.

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