

| Count | Description |
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|---|--------------------------|
| 1 | CRN 10-10 A-FGJ-A-V-HQQV |
|---|--------------------------|



Product No.: [96523290](#)

Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). Pump materials in contact with the liquid are in high-grade stainless steel. A cartridge shaft seal ensures high reliability, safe handling, and easy access and service. Power transmission is via a rigid split coupling. Pipe connection is via combined DIN-ANSI-JIS flanges.

The pump is fitted with a 3-phase, fan-cooled asynchronous motor.

Further product details

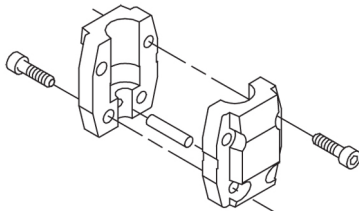
Steel, cast iron and aluminium components have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface. An integral part of the process is a pretreatment. The entire process consists of these elements:

- 1) Alkaline-based cleaning.
- 2) Zinc phosphating.
- 3) Cathodic electro-deposition.
- 4) Curing to a dry film thickness 18-22 my m.

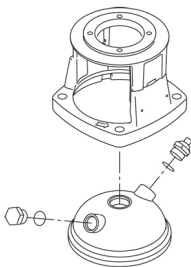
The colour code for the finished product is NCS 9000/RAL 9005.

Pump

A standard split coupling connects the pump and motor shaft. It is enclosed in the pump head/motor stool by means of two coupling guards.



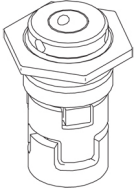
The pump head and flange for motor mounting is made in one piece (cast iron). The pump head cover is a separate component (stainless steel). The pump head has a combined 1/2" priming plug and vent screw.



The pump is fitted with a balanced O-ring seal unit with a rigid torque-transmission system. This seal type is assembled in a cartridge unit which makes replacement safe and easy. Due to the balancing, this seal type is suitable for high-pressure applications. The cartridge construction also protects the pump shaft from possible wear from a dynamic O-ring between pump shaft and shaft seal.

Primary seal:

- Rotating seal ring material: silicon carbide (SiC)

| Count | Description |
|-------|---|
| | <ul style="list-style-type: none"> Stationary seat material: silicon carbide (SiC) <p>This material pairing is used where higher corrosion resistance is required. The high hardness of this material pairing offers good resistance against abrasive particles.</p> <p>Secondary seal material: FKM (fluorocarbon rubber)</p> <p>FKM has excellent resistance to oils and chemicals. Above 90 °C, FKM should only be used in media without water.</p>  <p>The shaft seal is screwed into the pump head.</p> <p>The pump has a special air-cooled shaft-seal chamber generating the same insulation effect as that of a vacuum flask. No external cooling is necessary; the ambient temperature is sufficient. An automatic vent vents the pump seal chamber.</p> <p>The chambers and impellers are made of stainless-steel sheet. The chambers are provided with a PTFE neck ring offering improved sealing and high efficiency. The impellers have smooth surfaces, and the shape of the blades ensure a high efficiency.</p> <p>The pump has a stainless steel base mounted on a separate base plate. This base and base plate are kept in position by the tension of the staybolts which hold the pump together. The outlet side of the base has a combined drain plug and bypass valve. The pump is secured to the foundation by four bolts through the base plate. The flanges and base are cast in one piece and prepared for connection by means of DIN, ANSI or JIS.</p> <p>Motor</p> <p>The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. The motor is flange-mounted with free-hole flange (FF).</p> <p>Motor-mounting designation in accordance with IEC 60034-7: IM B 5 (Code I) / IM 3001 (Code II).</p> <p>Electrical tolerances comply with IEC 60034.</p> <p>The motor efficiency is classified as premium efficiency in accordance with EISA2007.</p> <p>The motor has thermistors (PTC sensors) in the windings in accordance with DIN 44081/DIN 44082. The protection reacts to both slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.</p> <p>Thermal switches must be connected to an external control circuit in a way which ensures that the automatic reset cannot cause accidents. The motors must be connected to a motor-protective circuit breaker according to local regulations.</p> <p>The motor can be connected to a variable speed drive for adjustment of pump performance to any duty point. Grundfos CUE offers a range of variable speed drives. Please find more information in Grundfos Product Center.</p> <p>Technical data</p> <p>Liquid:</p> <p>Pumped liquid: Water</p> <p>Liquid temperature range: -4 .. 194 °F</p> <p>Selected liquid temperature: 68 °F</p> <p>Density: 62.29 lb/ft³</p> <p>Technical:</p> <p>Rated pump speed: 3467 rpm</p> <p>Rated flow: 53.3 US gpm</p> <p>Rated head: 376.3 ft</p> <p>Actual impeller diameter: 3.66 in</p> |

| Count | Description |
|-------|--|
| | Pump orientation: Vertical Shaft seal arrangement: Single Code for shaft seal: HQQV Approvals on nameplate: CURUS Curve tolerance: ISO9906:2012 3B Materials: Base: Stainless steel EN 1.4408 AISI 316 Impeller: Stainless steel EN 1.4401 AISI 316 Bearing: SIC Installation: Maximum ambient temperature: 140 °F Maximum operating pressure: 362.59 psi Max pressure at stated temperature: 363 psi / 194 °F 363 psi / -4 °F Type of connection: DIN / ANSI / JIS Size of inlet connection: DN 50 Size of outlet connection: DN 50 Pressure rating for connection: PN 25 Flange rating inlet: 300 lb Flange size for motor: 213TC Electrical data: Motor standard: NEMA Motor type: 132DA IE Efficiency class: NEMA Premium / IE3 60Hz Rated power - P2: 7.5 HP Power (P2) required by pump: 7.5 HP Main frequency: 60 Hz Rated voltage: 3 x 208-230YY/460Y V Service factor: 1.15 Rated current: 19,5-18,1/9,09 A Starting current: 1020-1480 % Cos phi - power factor: 0.89-0.86 Rated speed: 3490-3520 rpm IE efficiency: IE3 89,5% Motor efficiency at full load: 89.5 % Motor efficiency at 3/4 load: 89.7 % Motor efficiency at 1/2 load: 88.3 % Number of poles: 2 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F Motor Number: 85904392 Controls: Frequency converter: NONE Others: DOE Pump Energy Index CL: 0.87 Net weight: 196 lb Gross weight: 216 lb Shipping volume: 10.1 ft ³ Country of origin: US Custom tariff no.: 8413.70.2040 |



Company name:

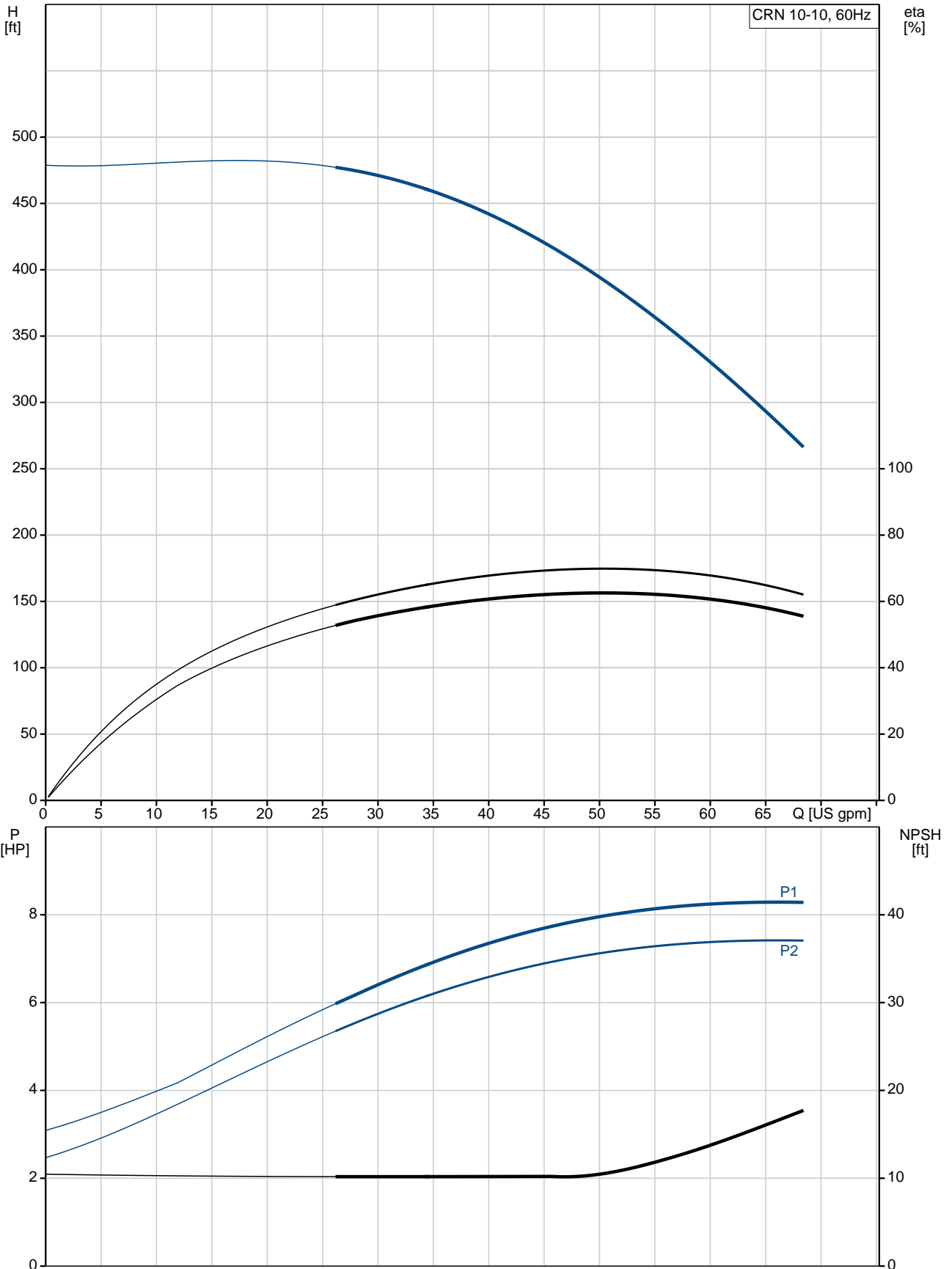
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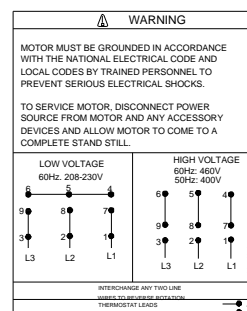
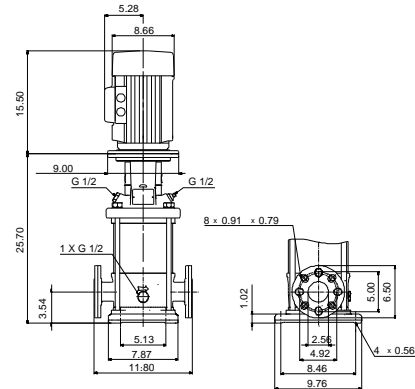
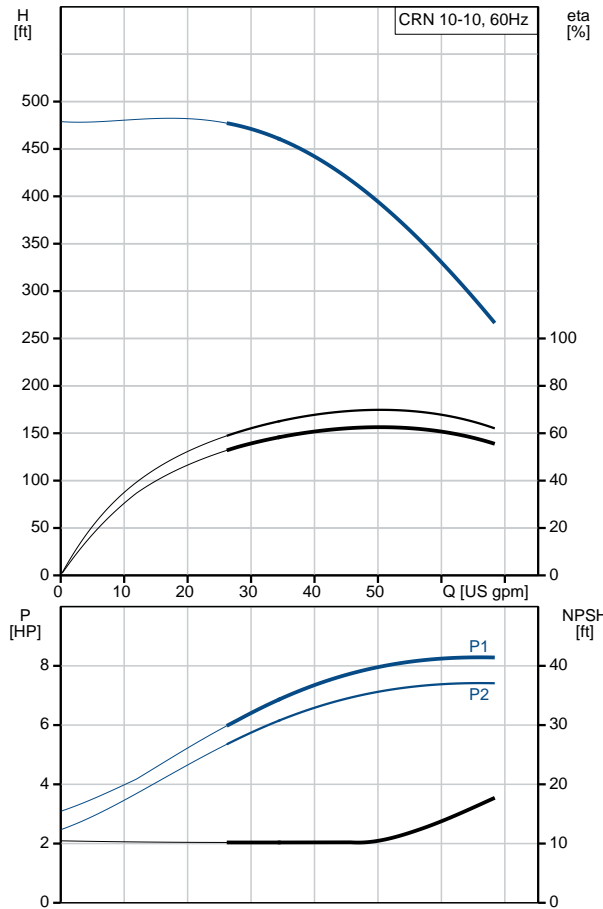
Date:

5/4/2020

96523290 CRN 10-10 A-FGJ-A-V-HQQV 60 Hz



| Description | Value |
|---------------------------------------|--|
| General information: | |
| Product name: | CRN 10-10 A-FGJ-A-V-HQQV |
| Product No.: | 96523290 |
| EAN: | 5700396901770 5700396901770 |
| Technical: | |
| Rated pump speed: | 3467 rpm |
| Rated flow: | 53.3 US gpm |
| Rated head: | 376.3 ft |
| Maximum head: | 482.3 ft |
| Actual impeller diameter: | 3.66 in |
| Stages: | 10 |
| Impellers: | 10 |
| Number of reduced-diameter impellers: | 0 |
| Low NPSH: | N |
| Pump orientation: | Vertical |
| Shaft seal arrangement: | Single |
| Code for shaft seal: | HQQV |
| Approvals on nameplate: | CURUS |
| Curve tolerance: | ISO9906:2012 3B |
| Pump version: | A |
| Model: | A |
| Cooling: | TEFC |
| Materials: | |
| Base: | Stainless steel EN 1.4408 AISI 316 |
| Impeller: | Stainless steel EN 1.4401 AISI 316 |
| Material code: | A |
| Code for rubber: | V |
| Bearing: | SIC |
| Installation: | |
| Maximum ambient temperature: | 140 °F |
| Maximum operating pressure: | 362.59 psi |
| Max pressure at stated temperature: | 363 psi / 194 °F 363 psi / -4 °F |
| Type of connection: | DIN / ANSI / JIS |
| Size of inlet connection: | DN 50 |
| Size of outlet connection: | DN 50 |
| Pressure rating for connection: | PN 25 |
| Flange rating inlet: | 300 lb |
| Flange size for motor: | 213TC |
| Connect code: | FGJ |
| Liquid: | |
| Pumped liquid: | Water |
| Liquid temperature range: | -4 .. 194 °F |
| Selected liquid temperature: | 68 °F |
| Density: | 62.29 lb/ft ³ |
| Electrical data: | |
| Motor standard: | NEMA |
| Motor type: | 132DA |
| IE Efficiency class: | NEMA Premium / IE3 60Hz |
| Rated power - P2: | 7.5 HP |
| Power (P2) required by pump: | 7.5 HP |
| Main frequency: | 60 Hz |





Company name:

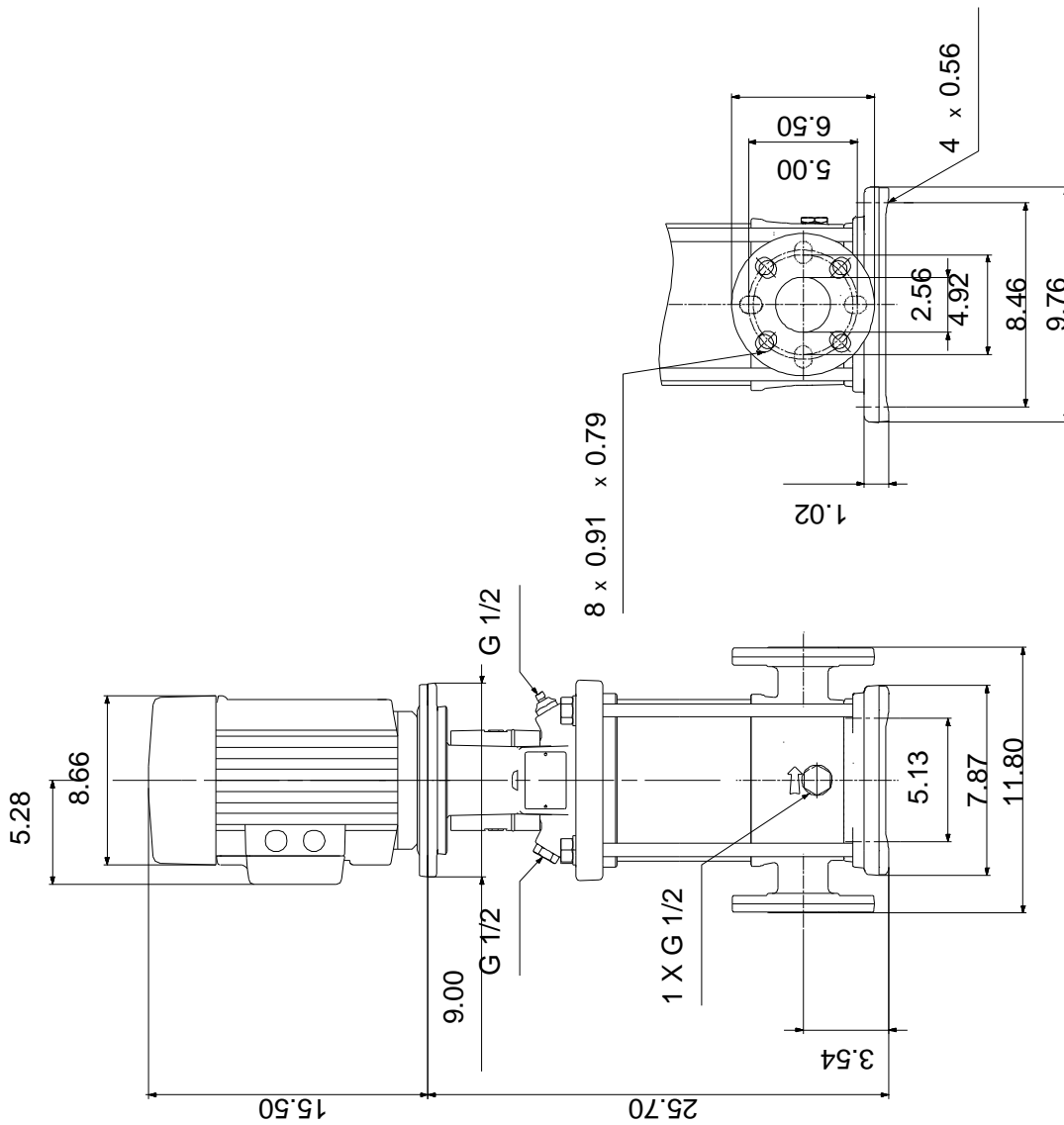
Created by:

Phone:

Date: 5/4/2020

| Description | Value |
|--------------------------------|----------------------|
| Rated voltage: | 3 x 208-230YY/460Y V |
| Service factor: | 1.15 |
| Rated current: | 19,5-18,1/9,09 A |
| Starting current: | 1020-1480 % |
| Load current: | 22,4-20,8/10,4 A |
| Cos phi - power factor: | 0.89-0.86 |
| Rated speed: | 3490-3520 rpm |
| IE efficiency: | IE3 89,5% |
| Motor efficiency at full load: | 89.5 % |
| Motor efficiency at 3/4 load: | 89.7 % |
| Motor efficiency at 1/2 load: | 88.3 % |
| Number of poles: | 2 |
| Enclosure class (IEC 34-5): | 55 Dust/Jetting |
| Insulation class (IEC 85): | F |
| Motor protection: | PTC |
| Motor Number: | 85904392 |
| Controls: | |
| Frequency converter: | NONE |
| Others: | |
| DOE Pump Energy Index CL: | 0.87 |
| Net weight: | 196 lb |
| Gross weight: | 216 lb |
| Shipping volume: | 10.1 ft ³ |
| Country of origin: | US |
| Custom tariff no.: | 8413.70.2040 |

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Note! All units are in [in] unless otherwise stated.
Disclaimer: This simplified dimensional drawing does not show all details.

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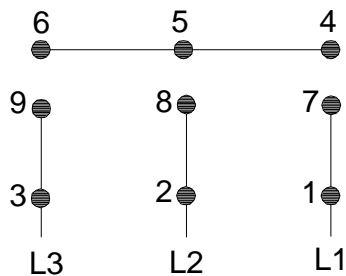


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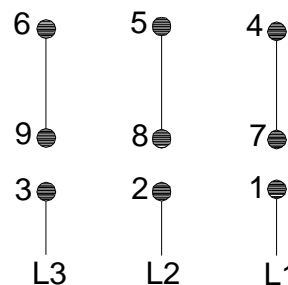
MOTOR MUST BE GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND LOCAL CODES BY TRAINED PERSONNEL TO PREVENT SERIOUS ELECTRICAL SHOCKS.

TO SERVICE MOTOR, DISCONNECT POWER SOURCE FROM MOTOR AND ANY ACCESSORY DEVICES AND ALLOW MOTOR TO COME TO A COMPLETE STAND STILL.

LOW VOLTAGE 60Hz. 208-230V



HIGH VOLTAGE 60Hz: 460V 50Hz: 400V



96553852

INTERCHANGE ANY TWO LINE WIRES TO REVERSE ROTATION
THERMOSTAT LEADS
(WHEN PROVIDED)

