

3 phase rotary converter schematics

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The H-A-S Rotary is rated with a dual horsepower classification. The first set of digits in the catalog number indicates the largest HP motor to be started while the second set indicates the maximum HP load that may be connected to the H-A-S Rotary. Minimum operating load is 25% of the largest HP motor rating of the converter.

The standard H-A-S Rotary will start motors requiring normal starting torque. If the starting code letter or the inertial loading of the motor is higher than normal, an auxiliary starting panel may be required in order to provide this higher starting torque. Contact the factory for details.

Upon receipt of the H-A-S Rotary, check the carton or crate for damage. Note any signs of damage on appropriate shipping forms. After opening the shipping container, look for concealed damage such as a damaged enclosure or cracked castings. If concealed damage is found, contact the freight carrier and file a claim immediately.

Check the nameplate to verify that the unit conforms to the required specifications.

Voltage and moving parts involved with electric motors can cause serious injuries; therefore, use extreme care when installing and maintaining electrical equipment of this nature. Become familiar with and follow all local electrical and safety codes as well as the National Electrical Code (NEC) and Occupational Safety & Health Administration (OSHA).

The H-A-S Rotary, as well as the system motors, must be adequately grounded per the NEC (Article 250 – grounding). Before removing any capacitors in the H-A-S Rotary unit, insure that they have been discharged.

The H-A-S Rotary may be mounted or installed at most any location where it is readily accessible for maintenance. The open dripproof design of the H-A-S Rotary is for use in a dry, clean location with access to an adequate supply of cooling air. For an outdoor installation, the standard unit should be protected with a cover that does not block air flow to the H-A-S Rotary unit. Special units may come fully weatherproof. The H-A-S Rotary should be securely mounted or bolted to a strong flat surface in order to minimize noise and vibration.

Before performing any maintenance, disconnect power and allow the H-A-S Rotary unit to come to a complete stop. Dirt accumulations can cause overheating, or a fire hazard, and must be removed. Dirt accumulations around and in vent openings should be removed by vacuuming.

For continuous normal applications, the suggested lubricat ion interval for the H-A-S Rotary is 9 months.

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Lubricate the H-A-S Rotary as follows:

Caution: Keep grease clean. Lubricate Rotarys at standstill. Remove and r eplace drain plugs at standstill. Do not mix petroleum grease and silicon grease in rotary bearings.

Check incoming voltage during starting. Voltage should not dip below 210 volts for the 230 volt model and not below 420 volts for the 460 volt model. If the voltage dips below these values, check wire size and transformer KVA.

Check appropriate wiring diagram for improper connections. Single Phase L1 & L2 must be connected to Rotary L1 & L2.

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