

Installing ADC-44 Wash Pump Motor



When installing a new motor for the 3-HP pump, always use a new secure bolt w/locking strip (098-1613) to hold the impeller (282-6303) to the motor shaft.



This bolt should only be used once, and never reused



Motor shaft sleeve w/inner o-rings

The stainless motor shaft sleeve (284-6203) with two internal o-rings (289-6618) should already be installed on the 7/8" motor shaft. The sleeve is 1.5" diameter OD, this is the surface that the pump seal (292-2001) rides on.

When looking at the wet-end of the pump, the impeller should turn counter-clock wise. Check rotation. Installing the pump seal is typical of the standard 5/8" motor seal installation, only larger parts.



Motor 291-1002, shaft sleeve, o-rings, impeller, key, lock bolt, washer



Seal spring, graphite half, ceramic half and rubber boot



Lubricate the pump housing with some dish soap



Place the housing on the motor w/sleeve installed



Press the ceramic half of the seal w/boot into the housing



Use 1.5" OD plastic tube to press seal till firmly seated



Using dish soap again, press graphite till it seats on ceramic



Key in the keyway, place impeller & tighten lock bolt 15 ft/lbs



CAUTION

When installing the impeller, carefully inspect the key way in the motor shaft and the impeller. If the edges of the key way are flattened out or pushed over (see photo below) the motor or impeller are not serviceable and should be replaced.



Motor with damaged key way



Results of key shifting in the shaft and motor



Showing key way damaged

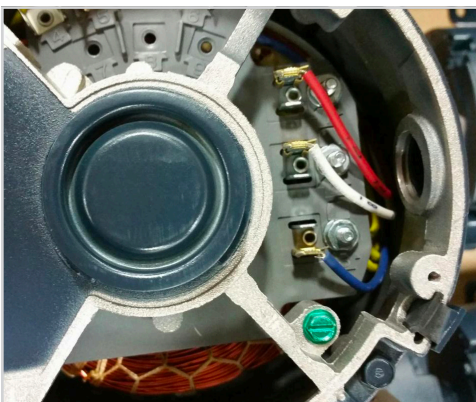


Result of spinning impeller in high ratio acid solution

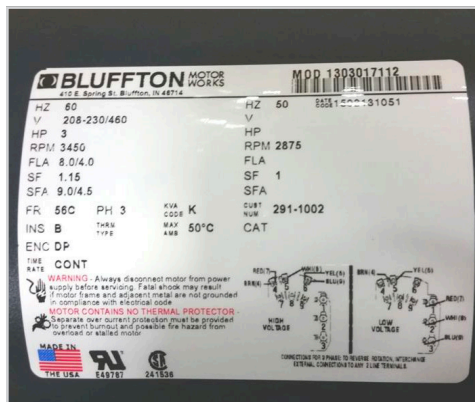
Electrical

Connecting 3-phase power to the motor is done at terminals L1 Red, L2 white, L3 blue. Note: with 3-phase motors, there is a 50/50 chance of the motor rotation being correct when first connected to power—to reverse, switch any two of the phase wires.

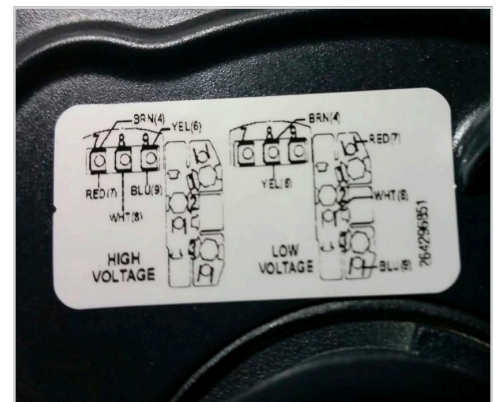
Look at the arrow on the motor for correct rotation.



3-phase power



Motor specifications



Low voltage is 208-230v, high voltage is 460v

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**Manufacturer of low and high temperature Commercial
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900 Blake Street | Edwardsville, Kansas 66111
Phone: 913.422.3700 | Toll-Free: 800.922.2178 | Fax: 913.422.6630
orders@americandish.com | americandish.com



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