

Technical Pages

Single Phase Pump Start-Up Procedure

Run Capacitor sizing can vary depending on the incoming supply voltage provided. HOMA Single Phase pumps are provided with a Start and a Run Capacitor sized for 220-230V under load. Frequently, the available line voltage is considerably different than indicated, and the start or run capacitors may need to be resized to match the available field voltage. The following procedure will allow you to verify proper operation of your single phase pump, and/or make necessary changes to your capacitors to correct for your power supply.

After verifying wiring is in accordance with your pump requirements, start pump and record the following readings from each of the (3) pump cable leads.

	<u>C</u>	<u>ommo</u> i	<u>n</u>	<u>Ru</u>	<u>n</u>		<u>Start</u>	
		U1		U	2		Z 2	
_								
Current (ınder load 1 J 1		Amps > U2		Amps > 7	>	Amns	
Sł	nould be:	(highest re	Amps > U2 ading)	(middle rea	ding)	(lowest rea	ading)	
Lead U1 ((common)	should have	e the highest c	urrent readir	ng. Lead Z2 (s	start) should	have the low	est reading.
			in the current o					
microfarad rating) is required to correct the condition. Example: If a 60 μf Run capacitor was supplied, change to a 50 μf Run capacitor and check current readings. Typically, only one step down in capacitor size is								
•	•		es 2 steps may	•	•	step down i	ii capacitor si	126 13
The	standard	d capacitor	kit provided i	ncludes:		μf start capacitor		
						_ µf run cap	acitor	
Λda	litional ru	n canacitor	e have been	included for	· uso in tunin	a the numn	to match av	vailabla lina
Additional run capacitors have been included for use in tuning the pump to match available voltages for optimum performance:								
						_ μf run cap	oacitor	
						_ µf run cap	pacitor	
						_ µf run cap	acitor	
						•		

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