

THREE PHASE OPEN WELL SUBMERSIBLE MONOBLOCK







To prevent serious accidents, disconnect the power supply before inspecting the pump.

WARNING	
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Read this Operation Manual carefully before requesting repair. Contact the dealer from whom the pump was purchased. Servicing and troubleshooting must be handled by qualified persons with proper tools and equipment. Common faults, root cause for these and suggested actions are provided in the table below:

FAULT	POSSIBLE CAUSES	SUGGESTED ACTIONS
Pump does not discharge water	NRV is jammed	Check and replace
	No power supply to the motor	Check for availability of power
	Motor coil burnt	Rewind the motor
	Low voltage operation	Operate when the voltage increases
	The motor starter overload has tripped	Reset the motor starter overload. If it trips again, check the voltage.
	Phase absent	Contact local EB representative
	The ELCB has tripped out	Cut in the circuit breaker
	Fuse has blown	Replace fuse
	Loose connections	Tighten the electrical connections
	Pump shaft has sheared	Replace the assembly rotor
Less discharge from pump	Low voltage operation	Check and wait for voltage to increase. Contact local EB representative if required.
	Wrong direction of rotation	Interchange the supply connections of any two phases
	Total head higher than specified head	Wrong selection
	Smaller pipe size used when compared to name plate recommendations	Replace with suggested pipe size
	Discharge pipe internally coated with depositions	Clean the pipe
	Foreign bodies lodged in impellers	Check the impellers and remove the foreign bodies
	The valve in the discharge pipe is partly closed / blocked	Check and clean/replace the valves, if necessary
	The NRV of the pump is partly blocked	Check and clean NRV. Replace if necessary.

	Impeller is worn out	Check and replace
	Leakage in the pipework	Check and repair/replace piping
Total head developed is too low	Abrasive wear of pump hydraulics due to operation in water of higher sand content or corrosiveness	Change the worn-out pump parts
	Change in the static head.	Check the actual static head.
	Running at low voltage	Wait for voltage to increase or contact local EB representative
Current consumption in excess	Two phase supply	Wait for 3 phase supply
	Voltage too low,	Check the voltage.
	Defective rotor	Change the rotor.
	Rotor rubbing against stator ID due to bend	Check and replace the rotor
	Low system head and therefore higher discharge	Throttle the discharge
Pump runs rough and noisy	Pump bearings worn out.	Dismantle and replace worn out bearings
	Rotor shaft is bent resulting in rotor rubbing against stator bore	Replace rotor shaft
	Impeller rubbing against volute casing / Yoke	Check impeller sealing/wearing ring run out. If excessive, replace impeller. Check rotor runout at location of impeller. If excessive, replace rotor.
Pump leaks excessively	Gaskets / O-rings damaged	Check and replace gaskets / O- rings
	Pipe line damaged	Check and replace piping

 NOTE	Conduct trial operation after maintenance
 NOTE	Dispose replaced components with appropriate care so as to protect the environment
 WARNING	Do not try to solve unspecified troubles of Open Well Submersible as it may lead to severe damage to the pump or injury to personnel. Contact the dealer where this pump was purchased.
 CAUTION	If the Open Well submersible runs with unusual noise, stop it immediately. Check (a) the journal bearings for wear (b) rotor outside diameter rubbing against stator inner diameter

