

3LV07-Series - 60 Hz

Optional
Heavy-duty
Quick-connect
cords



Terminal block for internal wiring

Rotor shaft grounding brush
protects bearings during VFD
operation

Upper deep groove ball bearing

Heavy duty class 30 cast iron
motor housing

Press fit stator enhances heat
transfer allowing for cooler
motor temperatures

Protective powder coat finish

Buna-N O-rings seal all joints

Lower bearing double row
angular contact ball bearing

Bronze shaft bushing

MidTherm™ Cooling
Allows oil to be cooled by
pumped media

High-efficiency vortex impeller
Class 30 cast iron

SS lifting bale - sized for ease of use

Buna-N cord strain reliefs

All hardware 316 SS

Permanent epoxy cord seal prevents
wicking

Inverter duty rated Class H insulation

Oil-filled motor chamber cools
motor and lubricates bearings

NEMA® IE3 Premium Efficiency motor
construction

Stator locking pin prevents stator
movement

One piece 416 SS rotor shaft

Bearing locking ring eliminates axial
shaft movement

Upper (inner) seal - graphite impregnated
carbon on silicon carbide with Viton®
elastomers and SS components.

Seal leak detection, 2-probe sensor
with resistor

Lower (outer) seal - silicon
carbide on silicon carbide
with Viton elastomers and
SS components
(other options available)

4" 150# ANSI® (DIN 100-PN10)
flange

ClearNotch™ Technology
Material cleanout slots

Patent: See
www.LibertyPumps.com/LEP/patents

Model Number	3LV073A	3LV074A	3LV075A
HP	7.5	7.5	7.5
Volts	200/230*	460	575
Phase	3	3	3
Hz	60	60	60
RPM	1750	1750	1750
FLA	24.5/22.5	11.2	8.6
SFA	29/26	13	10.5
LRA	210	103	80
Max kW Input	7.2	7.0	7.0
NEMA Code	A	A	A
Service Factor	1.3	1.3	1.3
Power Factor (%)	79	79	79
KVA Code	K	K	L
Motor Efficiency @ Full Load (%)	92	92	91.8
Std Impeller Diameter (in)	6.75	6.75	6.75
Shut-Off Head w/Std Impeller (ft)	52	52	52
Max Usable Head w/Std Impeller (ft)	50	50	50
Min Head w/Std Impeller (ft)	22	22	22
Max Flow @ Min Head (GPM)	450	450	450
Power Cord Type & Diameter	Type W, 1 in	SOOW, 0.72 in	SOOW, 0.72 in

* System voltages: 208 and 240 volts with utilization voltages: 200 and 230 volts. These pumps are able to be rewired to 460 volts in the field.

Motor Insulation Class	H 180°C
Impeller Type	Vortex
Impeller Material	Class 30 Cast Iron
Control Cord Type & Diameter	18/5 SOOW, 0.375 in
Power Cord Length (Options)	35, 50, 100 ft
Heavy-duty Quick-connect Cords	Optional
Upper (Inner) Seal Material	Graphite Impregnated Carbon - Rotating Silicon Carbide - Stationary Viton Elastomers
Lower (Outer) Seal Material (Standard)	Silicon Carbide on Silicon Carbide Viton Elastomers
Lower (Outer) Seal Material (Optional)	Tungsten Carbide on Tungsten Carbide Viton Elastomers
Max Water Temp for Continuous Duty	40°C
Min Fluid Level for Continuous Operation	Motor Housing Fully Submerged
Fluid pH Range	4–10
Starts Per Hour	30
Shaft Material	416 Stainless Steel

Fastener Material	316 Stainless Steel
O-Ring Elastomers	Buna-N
Upper Bearing	Single Row Deep Groove
Lower Bearing	Double Row Angular Contact
Oil Type	ISO VG10 Turbine Oil
Max Submersion Depth	75 ft
Solids Handling	3 in
Discharge	Horizontal 4 in 150# ANSI (DIN 100-PN10)
Protective External Finish	Powder Coat
Seal Fail Detection	Dual Probe - 2 Wire with Resistor 200K ohm Resistance
Thermal Protection	3 Hermetically Sealed Thermostats 125°C Opening Temperature 105°C Closing Temperature 3A @ 120VAC, 1A @ 240 VAC
Volute Material	Class 30 Cast Iron
Pump Weight	415 lbs (approx)
Certifications	CSA Certified to CSA and UL® Standards CAN/CSA C22.2 No. 108-14 ANSI/UL 778 6th Ed