

3LE03-Series - 60 Hz

Optional  
Heavy-duty  
Quick-connect  
cords



Terminal block for internal wiring

Rotor shaft grounding brush  
protects bearings during VFD  
operation (3-phase models)

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 solids handling  
enclosed 2 Vane impeller  
Class 30 cast iron

SS lifting bale - sized for ease of use

Standard Quick-connect cords

All hardware 316 SS

Oil-filled motor chamber cools  
motor and lubricates bearings

Inverter duty rated Class H insulation

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 Vitor®  
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

Serviceable impeller wear ring

Patent: See  
[www.LibertyPumps.com/LEP/patents](http://www.LibertyPumps.com/LEP/patents)

Model Number	3LE032A	3LE033A	3LE034A	3LE035A
HP	3	3	3	3
Volts	230	200/230*	460	575
Phase	1**	3	3	3
Hz	60	60	60	60
RPM	1750	1750	1750	1750
FLA	15.6	11.0/10.2	5	4.2
SFA	19	13/12	5.7	5
LRA	102	80	39.5	29.5
Max kW Input	3.5	3.2	3.2	3.2
NEMA Code	—	B	B	B
Service Factor	1.3	1.3	1.3	1.3
Power Factor	0.98	0.77	0.77	0.77
KVA Code	G	J	J	J
Motor Efficiency @ Full Load (%)	86.2	89.7	89.7	89.5
Std Impeller Diameter (in)	6.25	6.25	6.25	6.25
Shut-Off Head w/Std Impeller (ft)	30	30	30	30
Max Usable Head w/Std Impeller (ft)	24	24	24	24
Min Head w/Std Impeller (ft)	10	10	10	10
Max Flow @ Min Head (GPM)	460	460	460	460
Power Cord Type & Diameter	SOOW, 0.72 in	SOOW, 0.72 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.

\*\* Single-phase motors require capacitors. Liberty Pumps control panel or capacitor kits are recommended for proper operation and warranty. Refer to "Control Panel" section.

<b>Motor Insulation Class</b>	H 180°C
<b>Impeller Type</b>	Enclosed 2 Vane
<b>Impeller Material</b>	Class 30 Cast Iron
<b>Control Cord Type &amp; Diameter</b>	18/5 SOOW, 0.375 in
<b>Power Cord Length (Options)</b>	35, 50, 100 ft
<b>Standard Quick-connect Cords</b>	Standard
<b>Heavy-duty Quick-connect Cords</b>	Optional
<b>Upper (Inner) Seal Material</b>	Graphite Impregnated Carbon - Rotating Silicon Carbide - Stationary Viton Elastomers
<b>Lower (Outer) Seal Material (Standard)</b>	Silicon Carbide on Silicon Carbide Viton Elastomers
<b>Lower (Outer) Seal Material (Optional)</b>	Tungsten Carbide on Tungsten Carbide Viton Elastomers
<b>Max Water Temp for Continuous Duty</b>	40°C
<b>Min Fluid Level for Continuous Operation</b>	Motor Housing Fully Submerged
<b>Fluid pH Range</b>	4–10
<b>Starts Per Hour</b>	30
<b>Shaft Material</b>	416 Stainless Steel

<b>Fastener Material</b>	316 Stainless Steel
<b>O-Ring Elastomers</b>	Buna-N
<b>Upper Bearing</b>	Single Row Deep Groove
<b>Lower Bearing</b>	Double Row Angular Contact
<b>Oil Type</b>	ISO VG10 Turbine Oil
<b>Max Submersion Depth</b>	75 ft
<b>Solids Handling</b>	3 in
<b>Discharge</b>	Horizontal 4 in 150# ANSI (DIN 100-PN10)
<b>Protective External Finish</b>	Powder Coat
<b>Seal Fail Detection</b>	Dual Probe - 2 Wire with Resistor 200K ohm Resistance
<b>Thermal Protection</b>	1-phase - 2 Hermetically Sealed Thermostats 3-phase - 3 Hermetically Sealed Thermostats 125°C Opening Temperature 105°C Closing Temperature 3A @ 120VAC, 1A @ 240 VAC
<b>Volute Material</b>	Class 30 Cast Iron
<b>Pump Weight</b>	340 lbs (approx)
<b>Certifications</b>	CSA Certified to CSA and UL® Standards CAN/CSA C22.2 No. 108-14 ANSI/UL 778 6th Ed

Specifications are subject to change without notice.