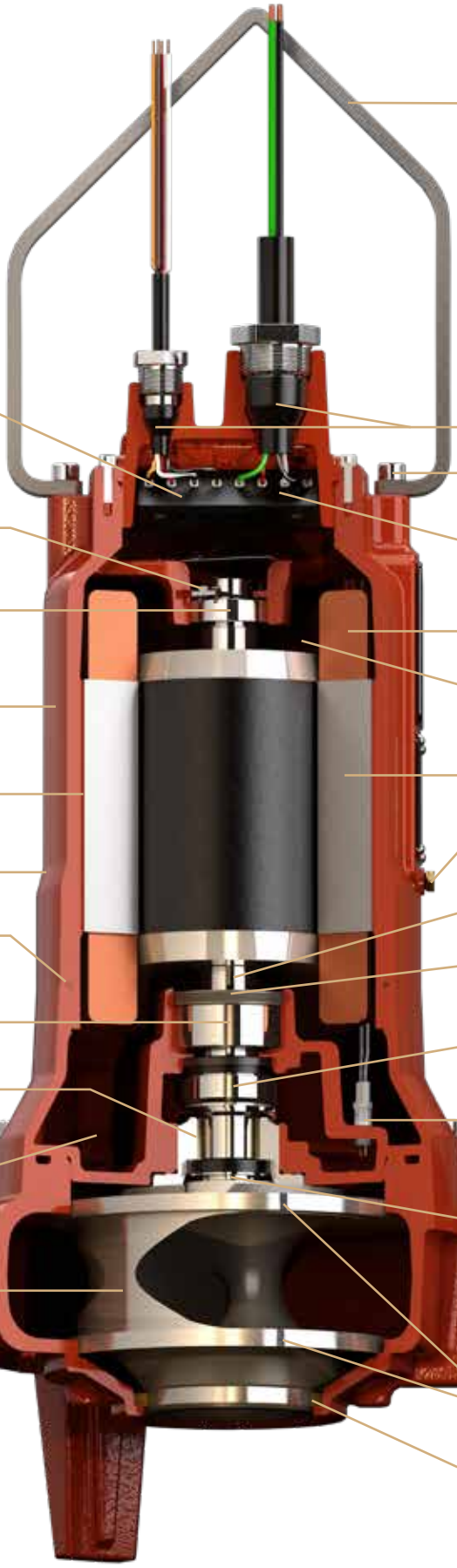
Liberty Pumps
Engineered Products

Technical Data

3XLM10-Series - 60 Hz

Optional Heavy-duty Quick-connect cords



SS lifting bale - sized for ease of use

Terminal block for internal wiring

Buna-N cord strain reliefs

All hardware 316 SS

Rotor shaft grounding brush protects bearings during VFD operation

Permanent epoxy cord seal prevents wicking

Upper deep groove ball bearing

Inverter duty rated Class H insulation

Oil-filled motor chamber cools motor and lubricates bearings

Heavy duty class 30 cast iron motor housing

NEMA® IE3 Premium Efficiency motor construction

Press fit stator enhances heat transfer allowing for cooler motor temperatures

Stator locking pin prevents stator movement

Protective powder coat finish

One piece 416 SS rotor shaft

Buna-N O-rings seal all joints

Bearing locking ring eliminates axial shaft movement

Lower bearing double row angular contact ball bearing

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

Bronze shaft bushing

Seal leak detection, 2-probe sensor with resistor

MidTherm™ Cooling
Allows oil to be cooled by pumped media

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

High-efficiency solids handling monovane impeller Class 30 cast iron

4" 150# ANSI® (DIN 100-PN10) flange

ClearNotch™
Material cleanout slots

Serviceable impeller wear ring

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

Technical Data

3XLM10-Series - 60 Hz

Model Number	3XLM103A	3XLM104A	3XLM105A
HP	10	10	10
Volts	200/230*	460	575
Phase	3	3	3
Hz	60	60	60
RPM	1750	1750	1750
FLA	32.5/30.5	14.8	11.7
SFA	40/35	17.5	14
LRA	212	106	86
Max kW Input	9.5	9.0	9.0
NEMA Code	B	B	A
Service Factor	1.3	1.3	1.3
Power Factor (%)	75	75	75
KVA Code	K	K	J
Motor Efficiency @ Full Load (%)	92.2	92.2	92
Std Impeller Diameter (in)	8.5	8.5	8.5
Shut-Off Head w/Std Impeller (ft)	78	78	78
Max Usable Head w/Std Impeller (ft)	63	63	63
Min Head w/Std Impeller (ft)	25	25	25
Max Flow @ Min Head (GPM)	720	720	720
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.*

Technical Data

3XLM10-Series - 60 Hz

Motor Insulation Class	H 180°C
Impeller Type	Precision Balanced Monovane
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
Hazardous Location T-Code	T4 (135°C with Thermals Connected) T2 (300°C without Thermals Connected)
Volute Material	Class 30 Cast Iron
Pump Weight	460 lbs (approx)
Certifications	CSA Certified to CSA, UL® and FM Standards CAN/CSA - C22.2 No. 145-11 UL 674 5th Ed FM 3615:2016 Class 1, Div. 1, Group C and D, T4 Class 1, Zone 1, Group IIA, IIB, T4

Specifications are subject to change without notice.

7000 Apple Tree Avenue - Bergen, NY 14416
Phone 800-543-2550 - Fax 585-494-1839 - www.LibertyPumps.com/LEP