

MOTOR SPECIFICATIONS

Motor Design	NEMA design B, squirrel cage induction, oil filled, non toxic oil
Motor Type	Enclosed submersible
Insulation Class	Class B, rated at 120° C
Motor Protection	<u>Single Phase:</u> Internal thermal protection with automatic reset. Installer must provide circuit breaker for short circuit protection per N.E.C standards. <u>Three Phase:</u> Installer must provide external motor overload protection device such as a contactor w/ thermal relay, and circuit breaker for short circuit protection per N.E.C. standards.
Service Factor	1.15
Voltage Tolerance	± 10% from name plate rating

MOTOR DATA, 60Hz

Model	Phase	Output Power bhp	Volts	Full Load Amps	Locked Rotor Amps	NEMA Code Letter	Pole/Speed (rpm)
EF 10W-2	1*	1.0	230	13.0	45.5	M	2/3450
EF 10D-2	3**	1.0	208-230	6.4-5.8	24-21.8	K	2/3450
	3**	1.0	460	2.9	10.9	K	2/3450
	3	1.0	575	2.3	8.7	K	2/3450

* Start switch and capacitor integrated into top of pump.

** These three phase motors are tri-voltage, 208/230/460.

MATERIALS of CONSTRUCTION

Upper Motor Lid	Cast Iron ASTM A48 Class 30
Motor Housing	Cast Iron ASTM A48 Class 30
Oil Chamber	Cast Iron ASTM A48 Class 30
Volute	Cast Iron ASTM A48 Class 30
Bottom Plate	Cast Iron ASTM A48 Class 30
Impeller	Cast Iron ASTM A48 Class 30
Lifting Bail	AISI 304 Stainless Steel
Oil (motor & oil chamber)	Non-toxic white mineral oil (Marcol 52)
External Hardware	AISI 304 Stainless Steel
O-Rings	Buna-N
Motor Shaft	AISI 420 Stainless Steel
Upper Bearing	Single row ball bearing
Lower Bearing(s)	Single row ball bearing
Upper Shaft Seal (secondary)	Rotating carbon face w/ stationary ceramic face
Lower Shaft Seal (primary)	Rotating carbon face w/ stationary ceramic face. Includes V-ring lip seal for lower seal protection. Option: Silicon Carbide mechanical seal

DIMENSIONS, WEIGHT, AND MISC.

Pump weight, lb. (kg)	62 (28) [EF 10W-2], 57 (26) [EF 10D-2]
Maximum submergence, ft. (m)	65 (20)
Discharge size, standard	2 inch vertical
Discharge type	NPT female thread. Can accept 2 x 3" bolt on adapter accessory.
Maximum temp. of pumped fluid	40°C continuous, 50°C intermittent
Agency Approvals	UL 778 and CSA C22.2-108

CABLE SPECIFICATIONS

POWER CABLE	VOLTAGE	DIAMETER	LENGTH	OUTER JACKET
14/3 SJEOOW (EF 10W-2)	230	0.36in (9.2mm)	20 ft (6m)	Thermoplastic elastomer
16/4 SEOOW (EF 10D-2)	208-230/460/575	0.43in (10.9mm)		

