

MOTOR SPECIFICATIONS

Motor Design	NEMA design B, squirrel cage induction, oil filled, non toxic oil
Motor Type	Enclosed submersible
Insulation Class	Class F, rated at 155° C
Motor Protection	<p><u>Single Phase:</u> External start kit in control panel is required. 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.</p> <p><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.</p> <p><u>Leakage:</u> DI Moisture Detection in Seal Sensing Chamber</p>
Service Factor	1.1 (single phase), 1.15 (three phase)
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)
EJ 50W-3	1*	5.0	230	27.0	149	H	4/1750
EJ 50D-3	3**	5.0	208-230	21.0-19.0	113-102	K	4/1750
	3**	5.0	460	9.5	51	K	4/1750
	3	5.0	575	7.6	41	K	4/1750

* Requires external start kit mounted in the control panel.

** 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)	Double 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)	161 (73) [EJ 50W-3], 160 (73) [EJ 50D-3]
Maximum submergence, ft. (m)	65 (20)
Discharge size, standard	3 inch horizontal
Discharge type	Flange with standard ANSI class 125 bolt pattern
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
8/4 SEOWW (EJ 50W-3)	230	0.76in (19.3mm)	32 ft (10 m)	Thermoplastic elastomer
12/4 SEOWW (EJ 50D-2)	208-230/460/575	0.57in (14.5mm)		