

6" HI-TEMP 90C SUBMERSIBLE MOTORS

Three-Phase 5-40 hp

Motors
Drives
Controls
Protection

Application Data:

Some pumping applications require more – and Franklin's Hi-Temp Motor line delivers just that. The Hi-Temp motor was designed and built in response to many requests for a motor that operates dependably in wells with high temperatures and/or low flow conditions.

The 6-inch Hi-Temp 90C motor utilizes a new, premium encapsulation process and new water soluble coolant to allow continuous operation in water temperatures of up to 90 °C.* In addition, this design is capable of handling thrust loads 25% higher than a standard motor without using oil.

Franklin's Hi-Temp 90C is the right choice for your demanding, high temperature well applications.

* Provided minimum allowable rates of flow past the motor are maintained

Basic Features:

- Up to 194 °F (90 °C) ambient temperature.
- 100% increase in upthrust capability at 30 °C
- 25% increase in downthrust capability at 30 °C
- Wet Well, Reservoir, Low Flow approved in 12" diameter or larger wells with ambient water up to 87 °F (30 °C)
- High temperature leads
- Hermetically sealed stator
- Innovative high temperature winding encapsulation system
- FES92 exclusive water soluble, high temperature bearing lubrication
- Double-flange NEMA mounting for ease of handling and pump mounting
- Stainless steel splined shaft for maximum shaft/coupling contact
- Full 3450 RPM 60Hz design point for superior pump performance
- Sand Fighter™ Sealing System
- Franklin Electric's exclusive Water-Bloc™ lead connection
- 316 SS and Y-Δ - consult factory
- Extended warranty available when used with FE Submonitor overload protection

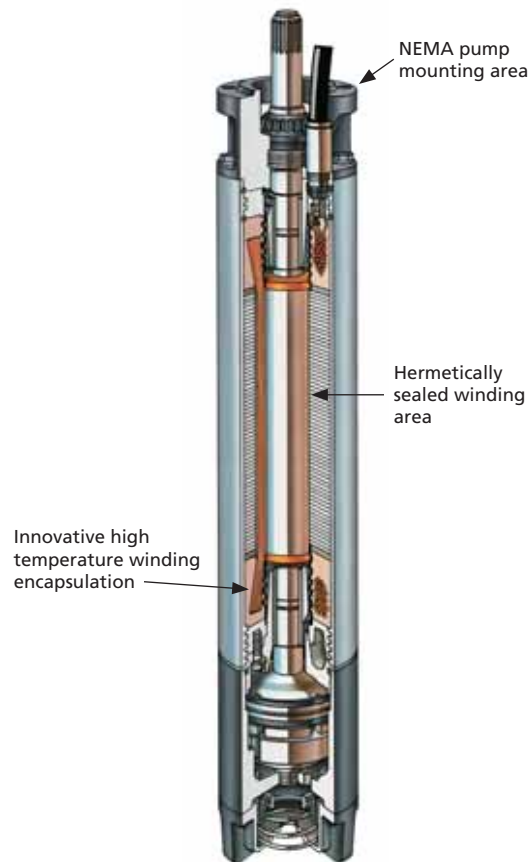


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Availability

Three-Phase, 60 Hz - 3450 RPM, 50 Hz - 2875 RPM

HP	KW	DOWNWARD THRUST @ 30 °C	VOLTS	HZ	SERVICE FACTOR
5	3.7	4500 lbs. 20000 N	200	60	1.15
			230	60	1.15
			380	60	1.15
			460/380	60/50	1.15/1.0
			575	60	1.15
7.5	5.5	4500 lbs. 20000 N	200	60	1.15
			230	60	1.15
			380	60	1.15
			460/380	60/50	1.15/1.0
			575	60	1.15
10	7.5	4500 lbs. 20000 N	200	60	1.15
			230	60	1.15
			380	60	1.15
			460/380	60/50	1.15/1.0
			575	60	1.15
15	11	4500 lbs. 20000 N	200	60	1.15
			230	60	1.15
			380	60	1.15
			460/380	60/50	1.15/1.0
			575	60	1.15
20	15	4500 lbs. 20000 N	200	60	1.15
			230	60	1.15
			380	60	1.15
			460/380	60/50	1.15/1.0
			575	60	1.15
25	18.5	7500 lbs. 33000 N	200	60	1.15
			230	60	1.15
			380	60	1.15
			460/380	60/50	1.15/1.0
			575	60	1.15
30	22	7500 lbs. 33000 N	200	60	1.15
			230	60	1.15
			380	60	1.15
			460/380	60/50	1.15/1.0
			575	60	1.15
40	30	7500 lbs. 33000 N	380	60	1.15
			460/380	60/50	1.15/1.0
			575	60	1.15



Construction Materials

Hi-Temp 90C Component	Water Well	Stainless Steel
1 Castings	Gray Iron	316 SS
2 Stator Shell	301 SS	316 SS
3 Stator Ends	Low Carbon Steel	316 SS
4 Shaft Extension	303 SS, Except 17-4 SS on 25-40 hp	17-4 SS
5 Fasteners	300 & 400 Series SS	316 SS
6 Seal Cover	304 SS & Sintered Bronze	316 SS
7 Seal	Sand Fighter™ Sealing System	Sand Fighter™ Sealing System
8 Diaphragm	Viton	Viton
9 Diaphragm Plate	304 SS	316 SS
10 Diaphragm Spring	302 SS	17-7 SST
11 Slinger	Viton	Viton
12 Lead Wire (or Cable)	XLPO	XLPO
13 Lead Potting	Epoxy	Epoxy
14 Pipe Plug	316 SS	316 SS

Specifications subject to change without notice. Contact Franklin Electric if current material types are required for bid specifications.



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