Jansen POMPEN- & WATERTECHNIEK
Hoogeindsestraat 5
NL - 5447 PD Rijkevoort
Nederland
T : +31 (0) 485 - 371318
F : +31 (0) 485 - 371918
info@pompentechniek.nl
www.pompentechniek.nl

4" Three-phase encapsulated
Water-Cooled Franklin motors

Quality in the Well

Franklin Electric's 4" three-phase Motors are manufactured according to ISO 9001 standards. These motors are built for dependable, maintenance-free operation and provide long life for your submersible pump operation.

Franklin Electric

Product features:

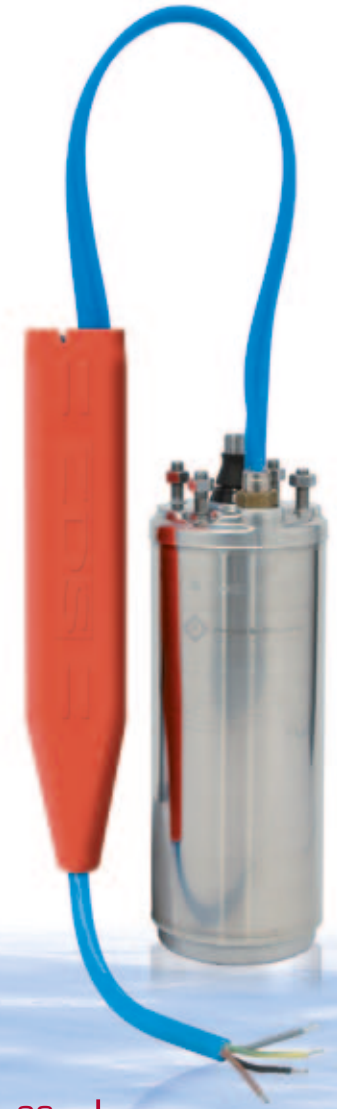
- Hermetically sealed stator
- Water lubricated radial and thrust bearing
- Corrosion resistant AISI 304 SS material
- Removable Water Bloc™ motor cable connector
- Anti-track, self healing stator resin prevents motor burn out
- High efficiency electrical design (lower operating cost, cooler winding temperature)
- Non-contaminating, water-filled design
- KTW-approved material

Standard

- 0,37 - 7,5kW
- 220V - 230 V / 50 Hz
- 380V - 415V / 50 Hz
- Thrust capacity:
  1.500N; 3.000N; 4.000N; 6.500N

Options

- VDE approved motor cable
- Special voltages
- AISI 316 Stainless Steel



Pump Protector – DRP will protect the motor from:

- Dry running (with automatic restart).
- Frequent starts and stops.
- Overload & surges, such as from lighting.
- Low voltage protection.

Specifications

4" NEMA flange
Degree of protection: IP 68
Insulation: Cl. B
Ambient temp.: 30°C at min. cooling flow 8cm/sec.
Cooling flow: min. 8cm/sec.
Starts/h: 20
Mounting: Vertical/horizontal
Voltage tolerance: +6% / -10% U_N
Motor protection: Select thermal overloads according to EN 60947-4-1
Trip time < 10sec. at 5 x I_N

On three-phase Franklin HTF motor for starting, running and overload protection must be provided by users.
For motors without the DRP an overload protection and a control unit to start and run the motor must be installed according to eN 60947-4-1 trip time < 10sec. at 5 x I_N

HTF - 380-415 V

Franklin Electric

50Hz n~2850 min^{-1}		Code	Cable (m)	Franklin Code	Power [kW]	Power [HP]	Thrust [N]	n_N [min^{-1}]	I_N [A]	I_{START} [A]	η eff [%]	Cosϕ (P.f.)	T_{START} T_N	L [mm]	W [kg]
HTF – THREE-PHASE FRANKLIN WATER-COOLED MOTOR & CABLE & SINGLE PACK															
HTF.037.15.DRP		184192010S	2	234 761 1621L	0,37	0,5	1500	2850	1,1 - 1,2	4,4 - 4,9	66	0,76 - 0,76	2,08	252	8,8
HTF.037.15		184192010L	1,5												8,3
HTF.055.15.DRP		184192015S	2	234 762 1621L	0,55	0,75	1500	2850	1,6 - 1,7	6,0 - 6,6	67	0,80 - 0,80	1,84	272	9,8
HTF.055.15		184192015L	1,5												9,3
HTF.075.15.DRP		184192020S	2	234 763 1621L	0,75	1	1500	2850	2,1 - 2,2	8,9 - 9,8	69	0,79 - 0,71	2,12	297	11,1
HTF.075.15		184192020L	1,5												10,6
HTF.110.30.DRP		184192025S	2	234 724 1621L	1,1	1,5	3000	2850	3,0 - 3,1	13,8 - 15,3	73	0,81 - 0,72	2,86	317	12,3
HTF.110.30		184192025L	1,5												11,8
HTF.150.30.DRP		184192030S	2	234 725 1621L	1,5	2	3000	2850	3,9 - 4,1	18,6 - 20,2	73	0,81 - 0,72	2,52	332	13,8
HTF.150.30		184192030L	1,5												13,1
HTF.220.40.DRP		184192035S	3	234 726 2521L	2,2	3	4000	2850	5,8 - 6,3	28,7 - 30,8	75	0,81 - 0,79	3,14	362	16,2
HTF.220.40		184192035L	2,5												15,5
HTF.300.40.DRP		184192040S	3	234 764 2521L	3	4	4000	2850	7,5 - 8,2	39,9 - 43,3	76	0,81 - 0,70	3,18	437	19,2
HTF.300.40		184192040L	2,5												18,6
HTF.400.65.DRP		184192045S	3	234 765 3421L	4	5,5	6500	2850	9,8 - 10,3	55,0 - 60,0	78	0,84 - 0,73	3,36	587	26,7
HTF.400.65		184192045L	2,5												26,1
HTF.550.65		184192050L	2,5	234 728 3421L	5,5	7,5	6500	2850	13,5 - 14,2	72,0 - 79,0	76	0,84 - 0,74	2,77	701	31,7
HTF.750.65		184192055L	2,5	234 729 3421L	7,5	10	6500	2850	18,3 - 17,4	96,0 - 102	74	0,84 - 0,79	3,58	780	35,3

HTF - 220-230 V

Franklin Electric

50Hz n~2850 min^{-1}		Code	Cable (m)	Franklin Code	Power [kW]	Power [HP]	Thrust [N]	n_N [min^{-1}]	I_N [A]	I_{START} [A]	η eff [%]	Cosϕ (P.f.)	T_{START} T_N	L [mm]	W [kg]
HTF – THREE-PHASE FRANKLIN WATER-COOLED MOTOR & CABLE & SINGLE PACK															
HTF.038.15.DRP		197192010S	2	234 751 1621L	0,37	0,5	1500	2850	1,9 - 2,0	7,7 - 8,2	66	0,76 - 0,76	2,08	252	8,8
HTF.038.15		197192010L	1,5												8,3
HTF.056.15.DRP		197192015S	2	234 752 1621L	0,55	0,75	1500	2850	2,8 - 2,9	10,4 - 11,1	67	0,80 - 0,80	1,84	272	9,8
HTF.056.15		197192015L	1,5												9,3
HTF.076.15.DRP		197192020S	2	234 753 1621L	0,75	1	1500	2850	3,6 - 3,7	15,4 - 16,2	69	0,79 - 0,71	2,12	297	11,1
HTF.076.15		197192020L	1,5												10,6
HTF.111.30.DRP		197192025S	2	234 754 1621L	1,1	1,5	3000	2850	5,2 - 5,3	23,8 - 25,2	73	0,81 - 0,72	2,81	317	12,3
HTF.111.30		197192025L	1,5												11,8
HTF.151.30.DRP		197192030S	2	234 755 1621L	1,5	2	3000	2850	6,8 - 6,9	32,1 - 33,0	73	0,81 - 0,72	2,52	332	13,8
HTF.151.30		197192030L	1,5												13,1
HTF.221.40.DRP		197192035S	3	234 756 2521L	2,2	3	4000	2850	10,0 - 10,2	49,9 - 50,3	75	0,81 - 0,79	3,14	362	16,2
HTF.221.40		197192035L	2,5												15,5
HTF.301.40		197192040L	2,5	234 766 3421L	3	4	4000	2850	13,0 - 13,5	67,5 - 69,4	76	0,81 - 0,70	3,31	437	18,6
HTF.401.65		197192045L	2,5	234 767 3421L	4	5,5	6500	2850	17,1 - 17,3	95,0 - 99,0	78	0,84 - 0,73	3,36	587	26,1
HTF.551.65		197192050L	2,5	234 758 3421L	5,5	7,5	6500	2850	23,3 - 24,5	125 - 129	76	0,84 - 0,74	2,88	701	31,7

PART	MATERIAL DIN / AISI
Shell	1.4301
Top endbell, cover	1.4301
Upper endbell	Cast Iron claded
Lower endbell	Cast Iron claded
Bottom endbell cover	1.4301
Diaphragm cover	1.4310
Stud	1.4305
Nut	1.4305
Shaft seal	Lip seal BUNA N
Seal cover	Delrin 500
Slinger	BUNA N
Shaft end	1.4305
Diaphragm	BUNA N
Lead	EPDM
Jam nut (lead)	Brass
Lead sleeve	Ni - plated
Lead bushing	Neoprene
Other seals	BUNA N