



WEDAK PUMPS

Shine your Flow

Shine your Borewell...



**Wedak
Submersible
Motors**

-50Hz

www.wedakpumps.com



COMPANY PROFILE

We, **Wedak Pumps** is an outcome of 15 years of expertise in providing water pumping solutions. We are committed in providing pumping solutions to major sectors like Agriculture, Residential, Buildings, commercial, Industries and waste water by our world-class Submersible, Surface and Solar pumps, motors and accessories. We supply pumps suitable for the applications like pressure boosters and waste water transfers as well.

Wedak Pumps is always keen that our products are more efficient, effective and user friendly. Technology & Innovation are our key considerations and this keeps us in providing advanced pumping solutions to end users and keeps our products one step ahead in the industry.

With the noble vision of establishing its name, known for Trust & Quality across the globe, the company's Principles & Policies are carefully framed & implemented.

We regularly find the room for improvisations in products & process and this makes our product more reliable & flawless. We believe in continual improvement and update ourselves instantly to be the best in industry. We share the credit of our success with our entire supply chain & channel partners. Today we have good network of channel partners, who promotes our brand.

Customers are soul of our business, the whole Wedak Team runs round the clock for the only cause called "customer satisfaction" and see them smiled through our products & services



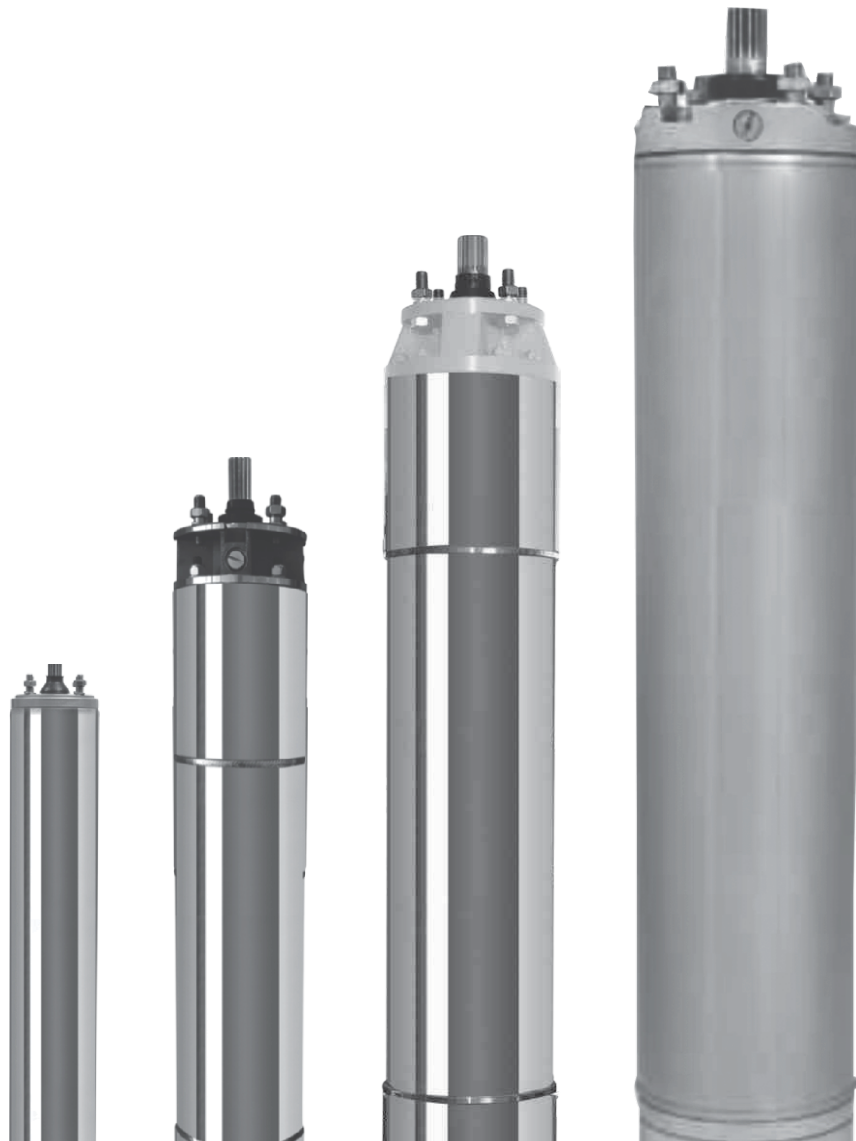
MISSION

To offer our customers world-class pumping solutions, satisfy them in all the aspects and see them smiled



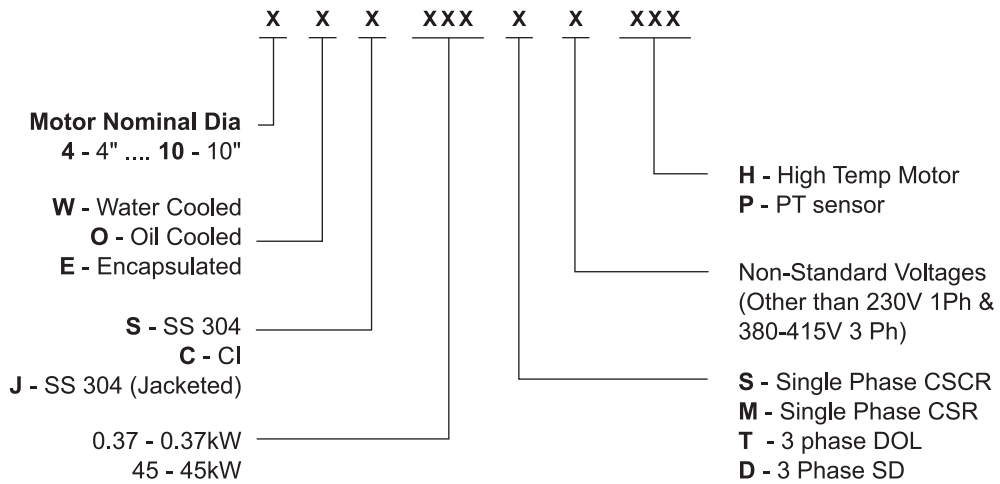
VISION

To be a Global symbol of Trust & Quality in providing Advanced Pumping solutions.

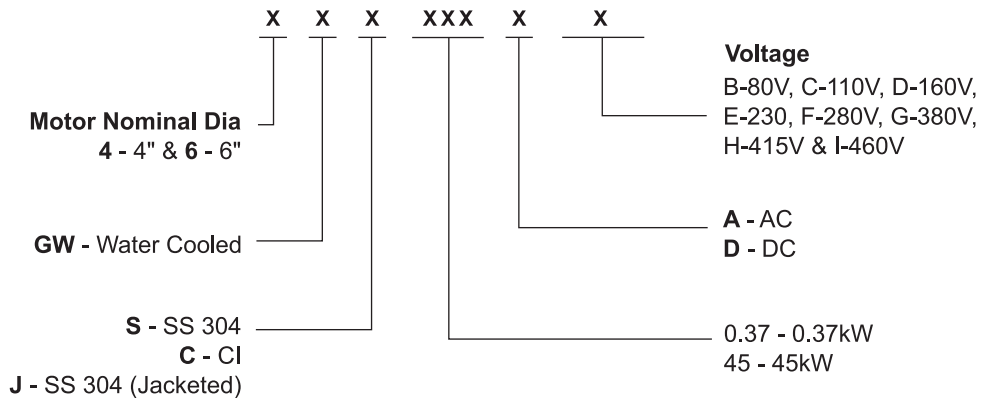


MODEL IDENTIFICATION CODE

BOREHOLE SUBMERSIBLE MOTORS



SOLAR / HIGH EFFICIENCY MOTORS (Permanent Magnet Synchronous Motor - PMSM)



Important Notes

- ▶ These motors are meant only for clear water applications.
- ▶ Electrical Performances of the motors remain the same for all types of materials of constructions.
- ▶ The given the performances are for the ideal testing conditions at factory and the actual performance may vary according to the field parameters

Warnings

- ▶ Considering these motors are electrical appliances, utmost care shall be taken during installation / commissioning / operations / maintenance & servicing.
- ▶ Apart from the general guidelines the local electrical regulations shall be adhered strictly.
- ▶ Proper Earthing of motor & control panels is mandatory.
- ▶ These motors are not for swimming pool applications.

SUBMERSIBLE MOTORS

WEDAK Submersible Motors are Borewell / Borehole / Deep well / Tube well type clear water Motors. These motors are Rewindable, wet type, water / oil cooled motors, designed to drive Wedak's or any brands NEMA submersible pumps. These are available from 3" to 10" sizes as standard supply. The windings are made up EC grade copper conductor and insulation & sheath of excellent insulation and water-proof property. High performance, specially designed, water lubricated thrust bearings are provided to withstand high axial thrust loads exerted by whole bore well water column and pumping systems. These motors are available in different types of MoCs like Fully Stainless Steel or Cast Iron constructions. The mounting dimensions are as per NEMA Standards and keyway type motors can also be supplied against requirement.

APPLICATIONS



RESIDENTIAL



IRRIGATION



**GENERAL
WATER SUPPLY**



INDUSTRIAL



**COMMERCIAL
BUILDINGS**



SOLAR



**HYDRO PNEUMATIC
APPLICATION**



HOTEL



MINING



GARDING



FOUTIAN



OIL & GAS



**DOMESTIC
WATER SUPPLY**



**FOOD PROCESSING
INDUSTRY**



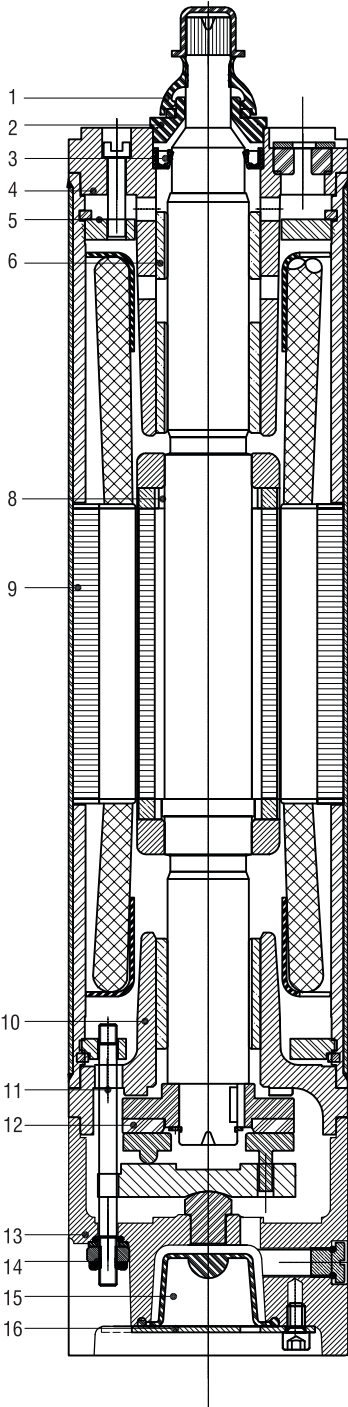
**LIVESTOCK
WATERING**



**SPRINGER
SYSTEM**

CROSS-SECTIONAL DRAWINGS & MATERIALS OF CONSTRUCTION

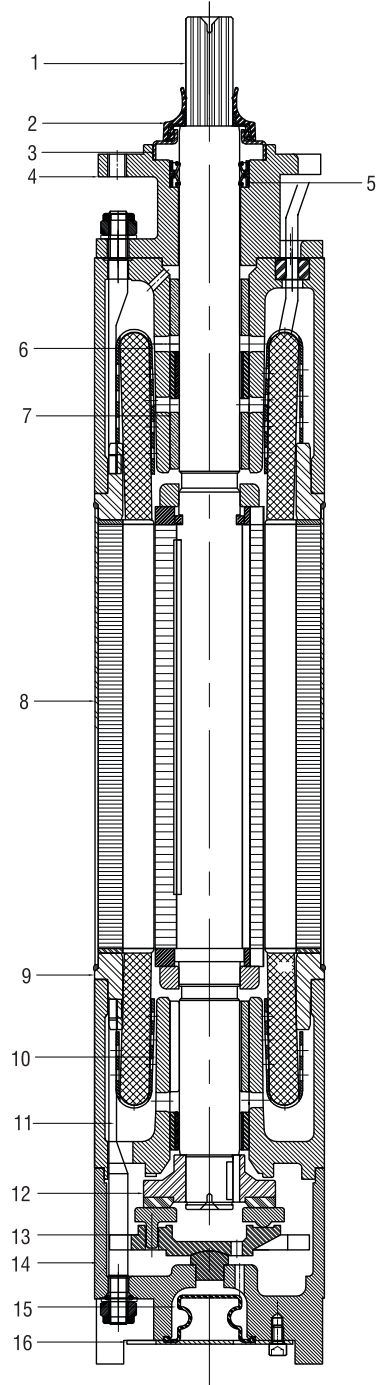
4"



MOC - 4"

NO.	PART NAME	MATERIAL
1	SAND SLINGER	NITRILE RUBBER
2	SAND COVER	SS 304
3	OIL / MECHANICAL SEAL	NITRILE RUBBER
4	MOTOR TOP (ADAPTOR)	SS 304
5	FLANGE	MILD STEEL
6	BEARING BUSH	CARBON
8	ROTOR	STAMPING-CRNO M47 SHAFT- SS
9	STATOR	STAMPING-CRNO M47 PIPE- SS 304
10	LOWER HOUSING	SS 304
11	STUD	SS 304
12	THRUST BEARING WITH LOOSE SEGMENT	CARBON + SS
13	MOTOR BASE	SS 304
14	FASTENERS	SS 304
15	DIAPHRAGM	NITRILE RUBBER
16	MOTOR BASE PLATE	SS 410

5"

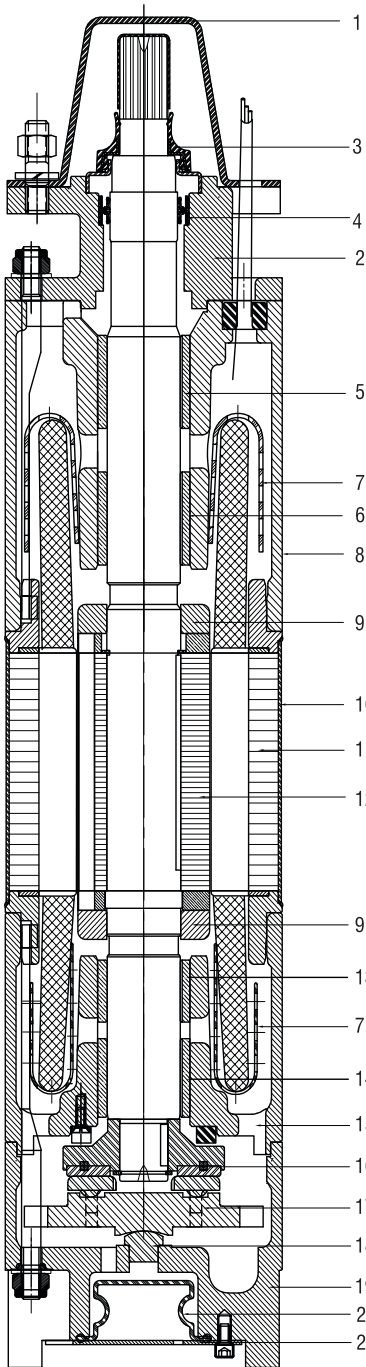


MOC - 5"

NO.	PART NAME	MATERIAL
1	ROTOR SHAFT	SS AISI 410
2	SAND SLINGER	NITRILE RUBBER + SS
3	SAND COVER	SS AISI-410
4	MOTOR TOP (ADAPTOR)	CI,FG-200 / SS
5	OIL / MECHANICAL SEAL	NITRILE RUBBER
6	UPPER HOUSING	CI,FG-200 / SS
7	BEARING BUSH	CARBON
8	STATOR TUBE	SS AISI 202
9	END RING	MILD STEEL
10	LOWER HOUSING	CI,FG-200 / SS
11	STUD M10X111	SS AISI-410
12	THRUST BEARING PLATE	PVC/NYLON 66
13	THRUST BEARING	SS AISI 410
14	MOTOR BASE	CI,FG-200 / SS
15	DIAPHRAM	NITRILE RUBBER
16	MOTOR BASE PLATE	SS 410

CROSS-SECTIONAL DRAWINGS & MATERIALS OF CONSTRUCTION

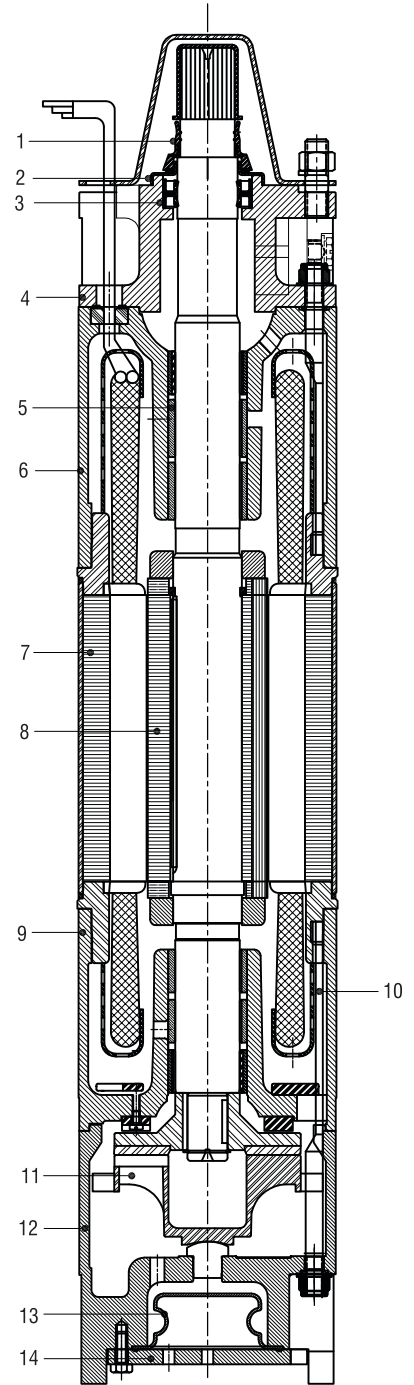
6"



MOC - 6"

NO.	PART NAME	MATERIAL
1	PROTECTION CLAMP	MS
2	MOTOR TOP (ADAPTOR)	CI,FG-260 / SS
3	SAND SLINGER	NITRILE RUBBER
4	OIL / MECHANICAL SEAL	NITRILE RUBBER+SS
5	RUBBER BUSH	NITRILE RUBBER+SS
6	BEARING BUSH	CARBON
7	WINDING CAP	LDPE
8	UPPER HOUSING	CI,FG-260 / SS
9	BALANCE RING	CI,FG-150
10	STATOR TUBE	SS- 202
11	STATOR	STAMPING-CRNO M-47
12	ROTOR	STAMPING-CRNO M-47
13	RUBBER BUSH	NITRILE RUBBER+SS
14	BEARING BUSH	CARBON
15	LOWER HOUSING	CI,FG-260 / SS
16	T.B.PLATE	CI+CARBON
17	THRUST BEARING BASE	SS- 420
18	ROCKER SUPPORT	SS- 410
19	MOTOR BASE	CI,FG-260 / SS
20	DAIPHRAGM	NITRILE RUBBER

7"

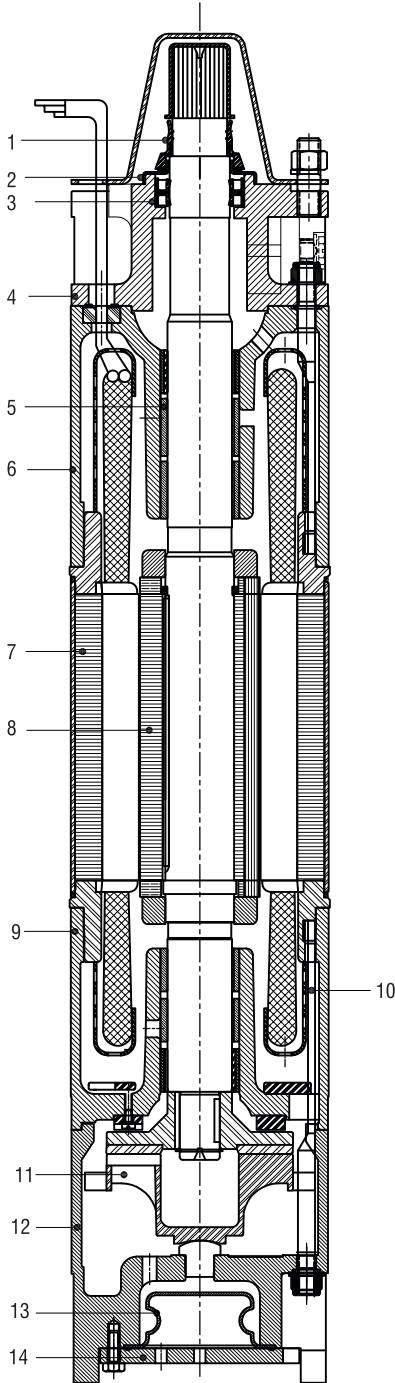


MOC - 7"

NO.	PART NAME	MATERIAL
1	SAND SLINGER	NITRILE RUBBER
2	SAND COVER	SS AISI-410
3	OIL / MECHANICAL SEAL	NITRILE RUBBER
4	MOTOR TOP (ADAPTOR)	CI,FG-200 / SS
5	BEARING BUSH	CARBON
6	UPPER HOUSING	CI,FG-200 / SS
7	STATOR	STAMPING-CRNO PIPE-SS
8	ROTOR	SHAFT-SS STAMPING-CRNO
9	LOWER HOUSING	CI,FG-200 / SS
10	T-BOLT	CARBON STEEL EN8
11	THRUST BEARING	SS AISI-410, PVC-NYLON 66
12	MOTOR BASE	CI,FG-200 / SS
13	DIAPHRAGM	NITRILE RUBBER
14	MOTOR BASE PLATE	CAST IRON

CROSS-SECTIONAL DRAWINGS & MATERIALS OF CONSTRUCTION

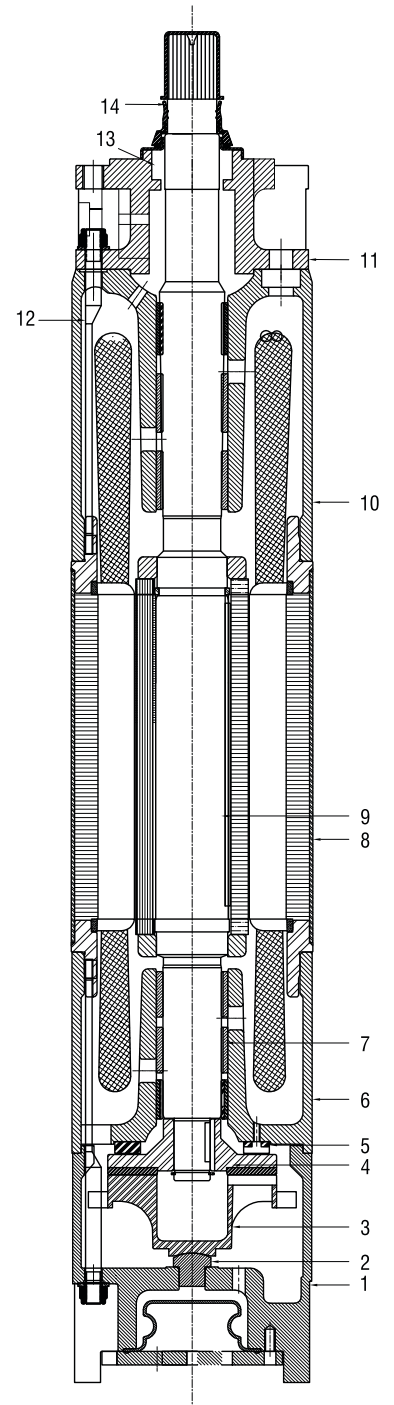
8"



MOC - 8"

NO.	PART NAME	MATERIAL
1	SAND SLINGER	NITRILE RUBBER
2	SAND COVER	SS AISI-410
3	OIL / MECHANICAL SEAL	NITRILE RUBBER
4	MOTOR TOP (ADAPTOR)	CI,FG-200 / SS
5	BEARING BUSH	CARBON
6	UPPER HOUSING	CI,FG-200 / SS
7	STATOR	STAMPING-CRNO PIPE-SS
8	ROTOR	SHAFT-SS STAMPING-CRNO
9	LOWER HOUSING	CI,FG-200 / SS
10	T-BOLT	CARBON STEEL EN8
11	THRUST BEARING	SS AISI-410, PVC-NYLON 66
12	MOTOR BASE	CI,FG-200 / SS
13	DIAPHRAGM	NITRILE RUBBER
14	MOTOR BASE PLATE	CAST IRON

8"-H

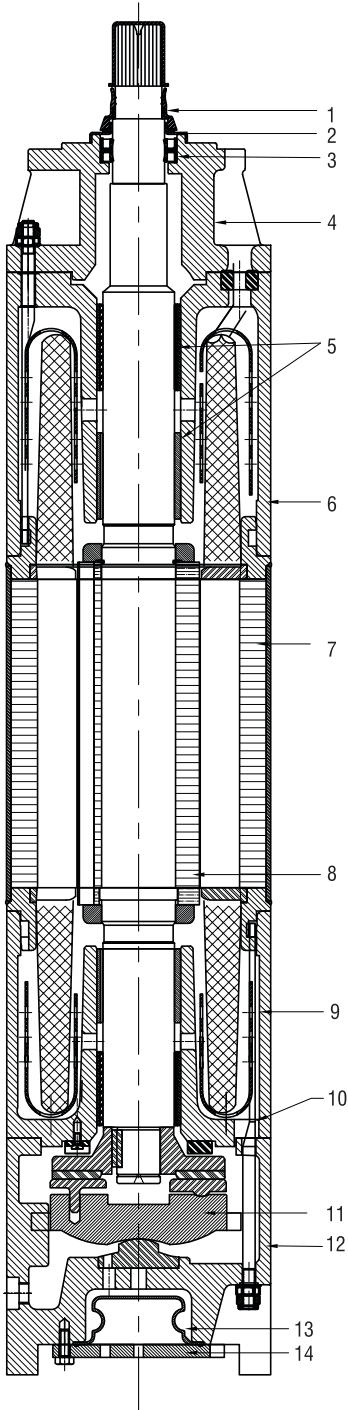


MOC - 8"-H

NO.	PART NAME	MATERIAL
1	MOTOR BASE	CI, FG-260
2	ROCKER SUPPORT	SS AISI 410
3	THRUST BEARING BASE	SS AISI 420
4	T.B.PLATE	SS AISI 410+CARBON
5	THRUST COUNTER PLATE	PVC NYLON-66
6	LOWER HOUSING	CI, FG-260
7	BEARING BUSH	CARBON
8	STATOR	STAMPING CRNO-47 PIPI 202
9	ROTOR	STAMPING CRNO-47 SHAFT 410
10	UPPER HOUSING	CI, FG-260
11	MOTOR TOP (ADAPTOR)	CI, FG-260
12	T-BOLT	MILD STEEL
13	OIL / MECHANICAL SEAL	NITRILE RUBBER
14	SAND GUARD	NITRILE RUBBER

CROSS-SECTIONAL DRAWINGS & MATERIALS OF CONSTRUCTION

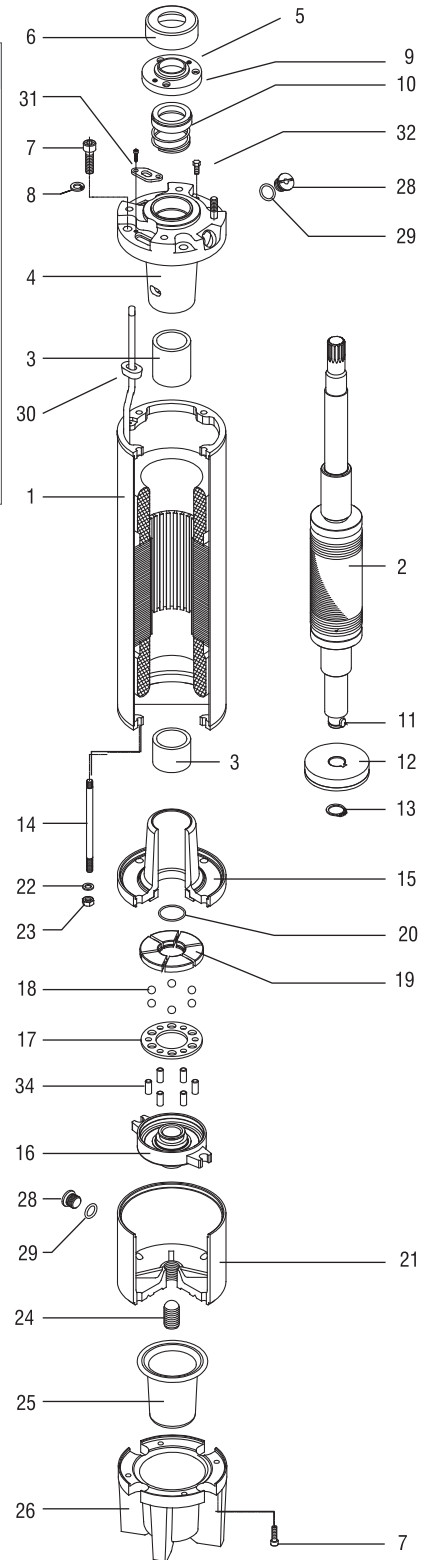
9"



MOC - 9"

NO.	PART NAME	MATERIAL
1	SAND SLINGER	SS 410
2	SAND GUARD	SS 410
3	OIL / MECHANICAL SEAL	NITRILE RUBBER
4	MOTOR TOP (ADAPTOR)	CI,FG-200 / SS,
5	BEARING & RUBBER BUSH	BRONZ CARBON & RUBBER+CS
6	UPPER HOUSING	CI,FG-200 / SS
7	STATOR	STAMPING-CRNO M47+PIPE-SS
8	ROTOR	SHAFT-SS+ STAMPING-CRNO M47
9	LOWER HOUSING	CI,FG-200 / SS
10	T-BOLT	CARBON STEEL EN8
11	THRUST BEARING	SS 410, PVC-NYLON 66
12	MOTOR BASE	CI,FG-200 / SS
13	DIAPHRAGM	NITRILE RUBBER
14	MOTOR BASE PLATE	CI,FG-200 / SS

10"



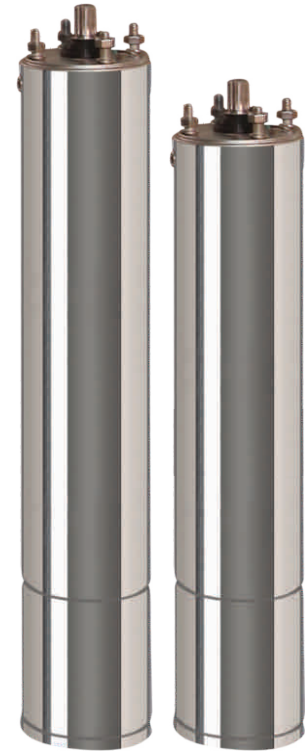
MOC - 10"

NO.	PART NAME	MATERIAL
1	STATOR	SS 304
2	ROTOR	SILICON STEEL
3	RADIAL BEARING	CARBON
4	UPPER BEARING BODY	CASTED IRON
5	SEAL GUARD	SS 304
6	SAND GUARD	SS 304
7	SCREWS	SS 304
8	METAL WASHER	SS 304
9	SEAL GUARD	SS 304
10	MECHANICAL SEAL	CERAMIC CARBON
11	AXIAL THRUST BEARING KEY	SS 304
12	AXIAL THRUST BEARING	SS 420
13	CIRCLIP	SS 304
14	TIE ROD	MS
15	LOWER BEARING BODY	CI
16	THRUST BEARING SUPPORT	CI
17	BALL HOLDER	SS 304
18	THRUST BEARING BALL	SS 304
19	AXIAL THRUST PADS	CARBON GRAPHITE
20	O-RING	NBR
21	THRUST BEARING BODY	CI
22	WASHER	SS 304
23	NUT	SS 304
24	ROCKER SCREW	SS 304
25	DIAPHRAGM	NBR
26	MOTOR BASE	CI
28	DRAIN PLUG	BRASS
29	O-RING	NBR
30	GROMMET	RUBBER
31	GROMMET PLATE	SS 304
32	NUT	SS 304
34	BALL HOLDER PINS	SS 304

4" OIL FILLED SUBMERSIBLE MOTORS

TECHNICAL SPECIFICATIONS

Nominal Diameter	4" (100 mm)
Type of Motor	Asynchronous , Induction Motor
Power Range	1 Ph - 0.37 kW to 2.2 kW
	3 Ph - 1.1 kW to 7.5 kW
Voltage range	1 Phase 230 V, 50 Hz, A.C Supply
	3 Phase 380-415 V, 50 Hz, A.C Supply
Voltage Tolerance	.+6% & -10%
Nominal Speed	2850 rpm
Class of Insulation	F
Mounting Standard	NEMA
Type of Winding	Re-windable, Wet Type
Winding Insulation	Enamelled
Degree of protection	IP 68
Direction of rotation	Anti-Clock wise
Type of duty	S1 (Continues)
Max. Liquid temp.	40° C
Minimum cooling flow	0.15 m/sec - Normal Temperature
Installation	Vertical / Horizontal
Shaft	Splined as per NEMA
Starts per hour	20 Times
Max. Outer Diameter	98 mm
Method of starting	1 Phase - CSCR / CSR
	3 Phase - Direct On Line (DOL) / Star-Delta (SD)



FEATURES

- ▶ Suitable for size of 100 mm (4") & above bore well.
- ▶ Highly Lubricant Oil Filled Motor
- ▶ Stainless Steel High Strength Shaft
- ▶ Enameled Winding Wire
- ▶ Anti-Friction Ball Bearings of Longer Life
- ▶ Pressure Equalizing Spring Loaded Diaphragm
- ▶ NEMA Standard

TECHNICAL DATA

4" Single Phase 220V / 230Y3 wire Oil Filled Motor

Model	kW	HP	Full Load Current (A)	Full Load Efficiency %	Full Load Power Factor	Max. Down thrust Load (N)	Cable Size (sq. mm)	Cable Length (m)	Height (mm)	Net Weight (kg)
4WO-0.37S	0.37	0.5	3.7	54	0.93	1500	1.5	1.5	341	6.7
4WO-0.55S	0.55	0.75	4.7	57	0.93	1500	1.5	1.5	356	7.3
4WO-0.75S	0.75	1	6.2	60	0.93	1500	1.5	1.5	386	8.7
4WO-1.1S	1.1	1.5	8.0	63	0.93	1500	1.5	1.5	426	10.6
4WO-1.5S	1.5	2	10.5	65	0.93	2500	2	1.5	476	12.9
4WO-2.2S	2.2	3	15.0	66	0.93	2500	2.3	2	581	17.7

4" Three Phase 380 - 415 V Oil filled Motor

Model	kW	HP	Full Load Current (A)	Full Load Efficiency %	Full Load Power Factor	Max. Down thrust Load (N)	Cable Size (sq. mm)	Cable Length (m)	Height (mm)	Net Weight (kg)
4WO-0.37T	0.37	0.5	1.4	58	0.75	1500	1.5	1.5	341	6.7
4WO-0.55T	0.55	0.75	1.8	61	0.76	1500	1.5	1.5	356	7.3
4WO-0.75T	0.75	1	2.5	64	0.77	1500	1.5	1.5	371	8
4WO-1.1T	1.1	1.5	3.2	67	0.78	2500	1.5	1.5	406	9.8
4WO-1.5T	1.5	2	4	69	0.79	2500	1.5	1.5	451	11.7
4WO-2.2T	2.2	3	6	71	0.8	2500	1.5	2	541	15.7
4WO-3T	3	4	8	72	0.81	2500	2	2	621	19.8
4WO-3.7T	3.7	5	9.5	72	0.8	2500	2	2	626	21.4
4WO-4T	4	5.5	10	74	0.82	2500	2	2	725	23.7
4WO-5.5T	5.5	7.5	12	75	0.83	4500	2.3	3	815	28
4WO-7.5T	7.5	10	15	76	0.84	4500	2.3	3	875	34

3" WATER FILLED SUBMERSIBLE MOTORS

TECHNICAL SPECIFICATIONS

Nominal Diameter	3" (75 mm)
Type of Motor	Asynchronous , Induction Motor
Power Range	1 Ph - 0.37 kW to 1.1 kW
Voltage range	1 Phase 230 V, 50 Hz, A.C Supply
Voltage Tolerance	+.6% & -10%
Nominal Speed	2850 rpm
Class of Insulation	Y / B / F
Mounting Standard	NEMA
Type of Winding	Re-windable, Wet Type
Winding Insulation	Enamelled
Degree of protection	IP 68
Direction of rotation	Anti-Clock wise
Type of duty	S1 (Continues)
Max. Liquid temp.	40° C
Minimum cooling flow	0.15 m/sec - Normal Temperature
Installation	Vertical / Horizontal
Shaft	Splined as per NEMA
Starts per hour	20 Times
Max. Outer Diameter	73 mm
Method of starting	1 Phase - CSCR / CSR



FEATURES

- ▶ Suitable for size of 75 mm (3") & above Bore well.
- ▶ Stainless Steel high strength shaft.
- ▶ High Efficiency electrical design (Low Operation cost, cool running winding)
- ▶ Filled with Anti-corrosive liquid
- ▶ Specially designed thrust bearing to withstand high axial thrust loads.
- ▶ Winding connections with solid solder joints.
- ▶ Special magnet provision in motor base and newly designed self-spring action diaphragms.
- ▶ Epoxy powder coating on rotor.
- ▶ Key type Assembly Rotor

TECHNICAL DATA

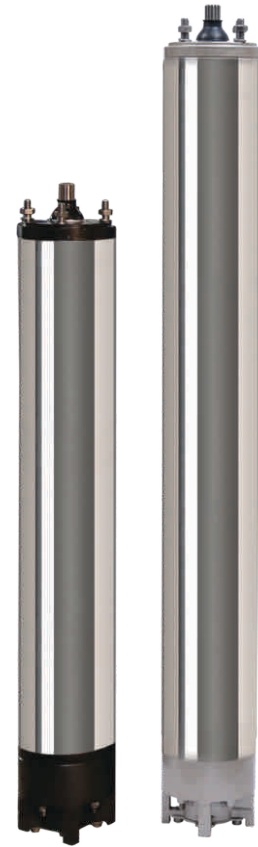
3" Single Phase 230V Water Filled Motor

Model	kW	HP	Full Load Current (A)	Starting Current (A)	Full Load Efficiency %	Full Load Power Factor	Max. Down thrust Load (N)	Cable Size (sq. mm)	Cable Length (m)	Height (mm)	Net Weight (kg)
3WS-0.55S	0.55	0.75	6	13	44	0.9	1500	1	2.7	408	9.5
3WS-0.75S	0.75	1.0	6.8	14	46	0.9	1500	1	2.7	448	10
3WS-0.93S	0.93	1.25	8.8	16	48	0.9	1500	1	2.7	488	11
3WS-1.1S	1.1	1.5	10	19	51	0.9	1500	1	2.7	538	12

4" WATER FILLED SUBMERSIBLE MOTORS

TECHNICAL SPECIFICATIONS

Nominal Diameter	4" (100 mm)
Type of Motor	Asynchronous , Induction Motor
Power Range	1 Ph - 0.37 kW to 2.2 kW
	3 Ph - 0.55 kW to 7.5 kW
Voltage range	1 Phase 230 V, 50 Hz, A.C Supply
	3 Phase 380-415 V, 50 Hz, A.C Supply
Voltage Tolerance	.+6% & -10%
Nominal Speed	2850 rpm
Class of Insulation	F / Y / B
Mounting Standard	NEMA
Type of Winding	Re-windable, Wet Type
Winding Insulation	Polywrap / PVC / XLPE / PE2-PA
Degree of protection	IP 68
Direction of rotation	Anti-Clock wise
Type of duty	S1 (Continues)
Max. Liquid temp.	40° C
Minimum cooling flow	0.15 m/sec - Normal Temperature
Installation	Vertical / Horizontal
Shaft	Splined as per NEMA
Starts per hour	20 Times
Max. Outer Diameter	95 mm
Method of starting	"1 Phase - CSCR / CSR
	3 Phase - Direct On Line (DOL) / Star-Delta (SD) /
	Impedance / Auto-Transformer (ATS)/ Soft-starter"



FEATURES

- ▶ Suitable for size of 100 mm (4") & above bore well.
- ▶ Stainless Steel high strength shaft.
- ▶ High Efficiency electrical design (Low Operation cost, cool running winding)
- ▶ Filled with Anti-corrosive liquid
- ▶ Specially designed thrust bearing to withstand high axial thrust loads.
- ▶ Winding connections with solid solder joints.
- ▶ Special magnet provision in motor base and newly designed self-spring action diaphragms.
- ▶ Epoxy powder coating on rotor.
- ▶ Graded cast iron housing with precisely fitted bush and special bearing counter provision for horizontal application of pump set.
- ▶ NEMA Standard.
- ▶ CED Coated Motor Assembly

TECHNICAL DATA

4" Single Phase 230V Water Filled Motor

Model	kW	HP	Full Load Current (A)	Starting Current (A)	Full Load Eff.%	Full Load Power Factor	Max. Down thrust Load (N)	Starting Torque (Nm)	Torque (Nm)	Cable Size (sq. mm)	Cable Length (m)	Height (mm)	Net Weight (kg)
4WS-0.37S	0.37	0.5	5	11	43	0.90	3000	2.0	1.2	1.5	2.3	481	16
4WS-0.55S	0.55	0.75	6	15	50	0.90	3000	2.9	1.8	1.5	2.3	501	16
4WS-0.75S	0.75	1.0	6.8	18	55	0.90	3000	4.1	2.5	2.5	2.3	521	17
4WS-1.1S	1.1	1.5	9.9	25	60	0.90	3000	6.1	3.7	2.5	2.7	551	19
4WS-1.5S	1.5	2	13	34	63	0.90	3000	8.3	4.9	4	3.1	601	21
4WS-2.2S	2.2	3	18	50	66	0.90	6500	13.3	7.4	4	3.1	671	25

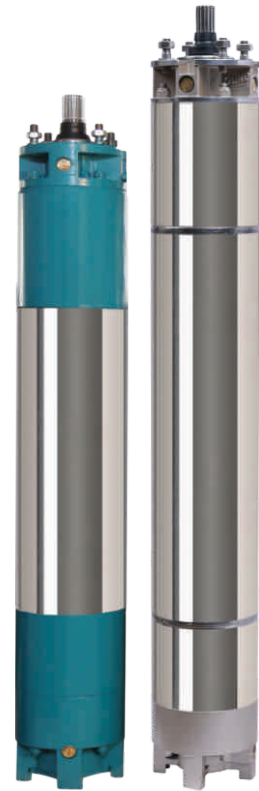
4" Three Phase 380-415V Water Filled Motor

Model	kW	HP	Full Load Current (A)	Starting Current (A)	Full Load Eff.%	Full Load Power Factor	Max. Down thrust Load (N)	Starting Torque (Nm)	Torque (Nm)	Cable Size (sq. mm)	Cable Length (m)	Height (mm)	Net Weight (kg)
4WS-0.75T	0.75	1	2.7	8	65	0.60	3000	4.5	2.5	1.5	2.3	521	17
4WS-1.1T	1.1	1.5	3.9	12	68	0.70	3000	6.7	3.7	1.5	2.7	551	19
4WS-1.5T	1.5	2	4.5	16	70	0.70	3000	9	5	1.5	2.7	601	22
4WS-2.2T	2.2	3	6.6	24	70	0.70	6500	14.1	7.5	2.5	2.7	671	25
4WS-3T	3	4	8.2	27	72	0.70	6500	19	10	2.5	2.7	741	28
4WS-3.7T	3.7	5	10	34	72	0.70	6500	22	12.4	2.5	2.7	781	31
4WS-5.5T	5.5	7.5	14.2	46	72	0.70	6500	33.7	18.7	4	3.1	841	34
4WS-7.5T	7.5	10	18.2	93	72	0.80	6500	45	25	4	3.1	1085	48

5" WATER FILLED SUBMERSIBLE MOTORS

TECHNICAL SPECIFICATIONS

Nominal Diameter	5" Motor (125 mm)
Type of Motor	Asynchronous , Induction Motor
Power Range	1 Ph - 2.2 kW to 7.5 kW
	3 Ph - 0.75 kW to 11.0 kW
Voltage range	1 Phase 230 V, 50 Hz, A.C Supply
	3 Phase 380-415 V, 50 Hz, A.C Supply
Voltage Tolerance	.+6% & -10%
Nominal Speed	2850 rpm
Class of Insulation	F / Y / B
Mounting Standard	NEMA
Type of Winding	Re-windable, Wet Type
Winding Insulation	Polywrap / PVC / XLPE / PE2-PA
Degree of protection	IP 68
Direction of rotation	Anti-Clock wise
Type of duty	S1 (Continues)
Max. Liquid temp.	40° C
Minimum cooling flow	0.15 m/sec - Normal Temperature
Installation	Vertical / Horizontal
Shaft	Splined as per NEMA
Starts per hour	20 Times
Max. Outer Diameter	122 mm
Method of starting	1 Phase - CSCR / CSR
	3 Phase - Direct On Line (DOL) / Star-Delta (SD) /
	Impedance / Auto-Transformer (ATS)/ Soft-starter



FEATURES

- ▶ Suitable for size of 125 mm (5") & above bore well.
- ▶ Stainless Steel high strength shaft.
- ▶ High Efficiency electrical design (Low Operation cost, cool running winding)
- ▶ Filled with Anti-corrosive liquid
- ▶ Specially designed thrust bearing to withstand high axial thrust loads.
- ▶ Winding connections with solid solder joints.
- ▶ Special magnet provision in motor base and newly designed self-spring action diaphragms.
- ▶ Epoxy powder coating on rotor.
- ▶ Graded cast iron housing with precisely fitted bush and special bearing counter provision for horizontal application of pump set.
- ▶ CED Coated

TECHNICAL DATA

5" Single Phase 230V Water Filled Motor

Model	kW	HP	Full Load Current (A)	Starting Current (A)	Full Load Efficiency %	Full Load Power Factor	Max. Down thrust Load (N)	Cable Size (sq. mm)	Cable Length (m)	Height (mm)	Net Weight (kg)
5WS-2.2S	2.2	3	16	42	60	0.90	10000	2.5	2.7	626	35
5WS-3S	3	4	19	48	61	0.90	10000	4	2.7	656	36
5WS-3.7S	3.7	5	26	64	65	0.91	10000	4	2.7	681	38
5WS-4.5S	4.5	6	31	75	66	0.92	10000	6	2.7	721	45
5WS-5.5S	5.5	7.5	35	79	68	0.93	10000	6	2.7	761	47
5WS-7.5S	7.5	10	45	93	69	0.94	10000	8	2.7	801	49

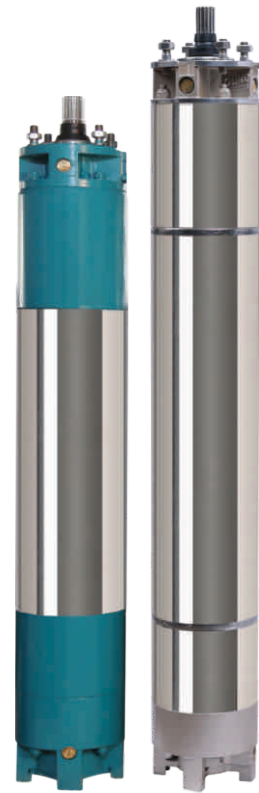
5" Three Phase 380-415V Water Filled Motor

Model	kW	HP	Full Load Current (A)	Starting Current (A)	Full Load Efficiency %	Full Load Power Factor	Max. Down thrust Load (N)	Cable Size (sq. mm)	Cable Length (m)	Height (mm)	Net Weight (kg)
5WS-0.75T	0.75	1	2.9	15	66	0.68	10000	1.5	2.7	551	31
5WS-1.1T	1.1	1.5	3.5	18	70	0.69	10000	1.5	2.7	566	32
5WS-1.5T	1.5	2	4.3	21	74	0.70	10000	1.5	2.7	596	33
5WS-2.2T	2.2	3	6.3	31	75	0.72	10000	1.5	2.7	626	35
5WS-3T	3	4	7.9	38	76	0.72	10000	1.5	2.7	656	36
5WS-3.7T	3.7	5	9	41	76	0.74	10000	2.5	2.7	681	38
5WS-4.5T	4.5	6	11	50	76	0.72	10000	2.5	2.7	721	45
5WS-5.5T	5.5	7.5	13.8	60	77	0.73	10000	2.5	2.7	761	47
5WS-7.5T	7.5	10	17	73	78	0.73	10000	4.0	2.7	801	49
5WS-9.3T	9.3	12.5	21	86	81	0.72	10000	4.0	2.7	846	53
5WS-11T	11	15	27	110	81	0.73	10000	4.0	2.7	876	49

6" WATER FILLED SUBMERSIBLE MOTORS

TECHNICAL SPECIFICATIONS

Nominal Diameter	6" Motor (150 mm)
Type of Motor	Asynchronous , Induction Motor
Power Range	1 Ph - 2.2 kW to 7.5 kW
	3 Ph - 2.2 kW to 30.0 kW
Voltage range	1 Phase 230 V, 50 Hz, A.C Supply
	3 Phase 380-415 V, 50 Hz, A.C Supply
Voltage Tolerance	.+6% & -10%
Nominal Speed	2850 rpm
Class of Insulation	F / Y / B
Mounting Standard	NEMA
Type of Winding	Re-windable, Wet Type
Winding Insulation	Polywrap / PVC / XLPE / PE2-PA
Degree of protection	IP 68
Direction of rotation	Anti-Clock wise
Type of duty	S1 (Continues)
Max. Liquid temp.	40° C / 55° C (High Temp Motor)
Minimum cooling flow	0.15 m/sec - Normal Temperature
	0.5 m/sec- High Temperature
Installation	Vertical / Horizontal
Shaft	Splined as per NEMA
Starts per hour	20 Times
Max. Outer Diameter	144 mm
Method of starting	1 Phase - CSCR / CSR
	3 Phase - Direct On Line (DOL) / Star-Delta (SD) /
	Impedance / Auto-Transformer (ATS)/ Soft-starter



FEATURES

- ▶ Suitable for size of 150 mm (6") & above bore well.
- ▶ Stainless Steel high strength shaft.
- ▶ High Efficiency electrical design (Low Operation cost, cool running winding)
- ▶ Filled with Anti-corrosive liquid
- ▶ Specially designed thrust bearing to withstand high axial thrust loads.
- ▶ Winding connections with solid solder joints.
- ▶ Special magnet provision in motor base and newly designed self-spring action diaphragms.
- ▶ Epoxy powder coating on rotor.
- ▶ Graded cast iron housing with precisely fitted bush and special bearing counter provision for horizontal application of pump set.
- ▶ CED Coated

TECHNICAL DATA

6" Single Phase 230V Water Filled Motor

Model	kW	HP	Full Load Current (A)	Starting Current (A)	Full Load Eff.%	Full Load Power Factor	Max. Down thrust Load (N)	Starting Torque (Nm)	Torque (Nm)	Cable Size (sq. mm)	Cable Length (m)	Height (mm)	Net Weight (kg)
6WS-2.2S	2.2	3	15	36	64	0.85	15500	17	10	4	2.7	617	44
6WS-3S	3	4	21	50	64	0.86	15500	19	12	6	2.7	642	46
6WS-3.7S	3.7	5	26	62	65	0.88	15500	20	14	6	2.7	657	47
6WS-4.5S	4.5	6	30	70	66	0.90	15500	21	15	6	2.7	677	50
6WS-5.5S	5.5	7.5	38	87	67	0.90	15500	24	18	8	2.7	727	55
6WS-7.5S	7.5	10	47	105	70	0.91	15500	27	25	8	2.7	762	60

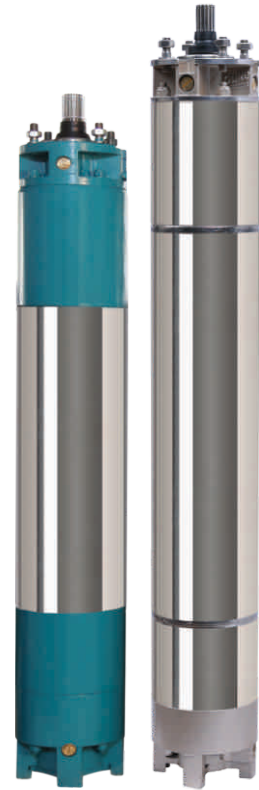
6" Three Phase 380-415V Water Filled Motor

Model	kW	HP	Full Load Current (A)	Starting Current (A)	Full Load Eff.%	Full Load Power Factor	Max. Down thrust Load (N)	Starting Torque (Nm)	Torque (Nm)	Cable Size (sq. mm)	Cable Length (m)	Height (mm)	Net Weight (kg)
6WS-2.2T	2.2	3	6.4	30	74	0.72	15500	17	10	1.5	2.7	617	44
6WS-3T	3	4	8	37	76	0.70	15500	19	12	1.5	2.7	642	46
6WS-4T	4	5	8.5	39	78	0.73	15500	20	14	2.5	2.7	657	47
6WS-4.5T	4.5	6	11	50	79	0.73	15500	21	15	2.5	2.7	677	50
6WS-5.5T	5.5	7.5	14	62	80	0.74	15500	24	18	2.5	2.7	727	55
6WS-7.5T	7.5	10	18	79	81	0.74	15500	27	25	2.5	2.7	762	60
6WS-9.3T	9.3	12.5	23	99	81.5	0.74	15500	35	31	4.0	2.7	807	65
6WS-11T	11	15	27	116	82	0.73	15500	43	37	4.0	2.7	857	70
6WS-13T	13	17.5	31	131	82	0.76	15500	51	43	4.0	2.7	877	73
6WS-15T	15	20	35	144	82.5	0.72	15500	62	49	4.0	3.15	932	80
6WS-18.5T	18.5	25	42	169	83	0.71	15500	98	61	4.0	3.15	987	89
6WS-22T	22	30	52	206	83	0.73	15500	118	74	6.0	3.15	1057	95
6WS-26T	26	35	60	231	83.5	0.74	15500	146	84	6.0	3.15	1132	117
6WS-30T	30	40	65	245	84	0.81	27500	196	98	8.0	3.15	1237	127
6WS-37T	37	50	80	289	84	0.82	27500	196	98	8.0	3.15	1312	138
6WS-45T	45	60	87	340	84	0.85	27500	390	150	16.0	4.00	1347	120

7" WATER FILLED SUBMERSIBLE MOTORS

TECHNICAL SPECIFICATIONS

Nominal Diameter	7" Motor (175 mm)
Type of Motor	Asynchronous , Induction Motor
Power Range	3 Ph - 7.5 kW to 55.0 kW
Voltage range	3 Phase 380-415 V, 50 Hz, A.C Supply
Voltage Tolerance	+6% & -10%
Nominal Speed	2900 rpm
Class of Insulation	F / Y / B
Mounting Standard	NEMA
Type of Winding	Re-windable, Wet Type
Winding Insulation	Polywrap / PVC / XLPE / PE2-PA
Degree of protection	IP 68
Direction of rotation	Anti-Clock wise
Type of duty	S1 (Continues)
Max. Liquid temp.	40° C / 55° C (High Temp Motor)
Minimum cooling flow	0.15 m/sec - Normal Temperature 0.5 m/sec- High Temperature
Installation	Vertical / Horizontal
Shaft	Splined as per NEMA / Key Way
Starts per hour	10 Times
Max. Outer Diameter	172 mm (with 6" PUMP) / 180 mm (with 8" PUMP)
Method of starting	Direct On Line (DOL) / Star-Delta (SD) / Impedance / Auto-Transformer (ATS)/ Soft-starter



FEATURES

- ▶ Suitable for size of 175 mm (7") & above bore well.
- ▶ Stainless Steel high strength shaft.
- ▶ High Efficiency electrical design (Low Operation cost, cool running winding)
- ▶ Filled with Anti-corrosive liquid
- ▶ Specially designed thrust bearing to withstand high axial thrust loads.
- ▶ Winding connections with solid solder joints.
- ▶ Special magnet provision in motor base and newly designed self-spring action diaphragms.
- ▶ Epoxy powder coating on rotor.
- ▶ Graded cast iron housing with precisely fitted bush and special bearing counter provision for horizontal application of pump set.
- ▶ CED Coated

TECHNICAL DATA

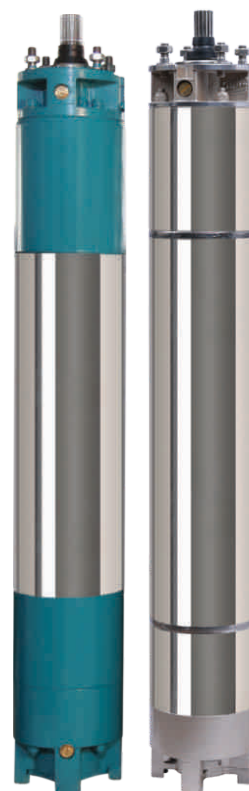
7" Three Phase 380-415V Water Filled Motor

Model	kW	HP	Full Load Current (A)	Starting Current (A)	Full Load Efficiency %	Full Load Power Factor	Max. Down thrust Load (N)	Cable Size (sq. mm)	Cable Length (m)	Height (mm)	Net Weight (kg)
7WS-7.5T	7.5	10	19	70	80	0.73	45500	2.5	2.7	859	80
7WS-9.3T	9.3	12.5	23	83	81	0.76	45500	2.5	2.7	885	82
7WS-11T	11	15	28	100	81	0.77	45500	4	2.7	919	88
7WS-13T	13	17.5	30	106	82	0.75	45500	4	2.7	940	93
7WS-15T	15	20	38	135	82	0.77	45500	4	2.7	965	100
7WS-18.5T	18.5	25	46	162	83	0.80	45500	6	2.7	1012	109
7WS-22T	22	30	53	185	83	0.81	45500	6	2.7	1051	115
7WS-26T	26	35	58	201	84	0.74	45500	6	2.7	1164	131
7WS-30T	30	40	67	230	84	0.76	45500	8	2.7	1203	137
7WS-33.5T	33.5	45	73	260	84	0.80	45500	8	2.7	1248	148
7WS-37T	37	50	83	282	84	0.78	45500	10	3.4	1300	159
7WS-45T	45	60	98	331	85	0.79	45500	10	3.4	1367	180
7WS-55T	55	75	112	375	86	0.82	45500	16	3.9	1445	203

8" WATER FILLED SUBMERSIBLE MOTORS

TECHNICAL SPECIFICATIONS

Nominal Diameter	8" Motor (200 mm)
Type of Motor	Asynchronous , Induction Motor
Power Range	3 Ph - 22 kW to 110 kW
Voltage range	3 Phase 380-415 V, 50 Hz, A.C Supply
Voltage Tolerance	+6% & -10%
Nominal Speed	2900 rpm
Class of Insulation	F / Y / B
Mounting Standard	NEMA
Type of Winding	Re-windable, Wet Type
Winding Insulation	Polywrap / PVC / XLPE / PE2-PA
Degree of protection	IP 68
Direction of rotation	Anti-Clock wise
Type of duty	S1 (Continues)
Max. Liquid temp.	40° C / 55° C (High Temp Motor)
Minimum cooling flow	"0.15 m/sec - Normal Temperature 0.5 m/sec- High Temperature "
Installation	Vertical / Horizontal
Shaft	Splined as per NEMA / Key Way
Starts per hour	10 Times
Max. Outer Diameter	22-63 kW : 188mm / 75-110kW : 192mm
Method of starting	Direct On Line (DOL) / Star-Delta (SD) / Impedance / Auto-Transformer (ATS)/ Soft-starter



FEATURES

- ▶ Suitable for size of 200 mm (8") & above bore well.
- ▶ Stainless Steel high strength shaft.
- ▶ High Efficiency electrical design (Low Operation cost, cool running winding)
- ▶ Filled with Anti-corrosive liquid
- ▶ Specially designed thrust bearing to withstand high axial thrust loads.
- ▶ Winding connections with solid solder joints.
- ▶ Special magnet provision in motor base and newly designed self-spring action diaphragms.
- ▶ Epoxy powder coating on rotor.
- ▶ Graded cast iron housing with precisely fitted bush and special bearing counter provision for horizontal application of pump set.
- ▶ CED Coated

TECHNICAL DATA

8" Three Phase 380-415V Water Filled Motor

Model	kW	HP	Full Load Current (A)	Starting Current (A)	Full Load Eff.%	Full Load Power Factor	Max. Down thrust Load (N)	Starting Torque (Nm)	Torque (Nm)	Cable Size (sq. mm)	Cable Length (m)	Height (mm)	Net Weight (kg)
8WS-22T	22	30	46	160	80	0.81	45500	112	73	6	2.75	1157	137
8WS-26T	26	35	54	187	81	0.81	45500	126	86	6	2.75	1187	147
8WS-30T	30	40	62	213	81	0.82	45500	141	99	8	2.75	1212	160
8WS-33.5T	33.5	45	71	244	82	0.83	45500	167	111	8	3.5	1282	158
8WS-37T	37	50	77	262	82	0.84	45500	194	123	10	3.5	1322	166
8WS-45T	45	60	91	307	82	0.84	45500	266	150	10	3.5	1437	188
8WS-55T	55	75	108	361	83	0.85	45500	321	199	16	4	1517	203
8WS-63T	63	85	125	415	83	0.85	45500	377	208	16	4	1577	213
8WS-75T	75	100	145	454	85	0.85	45500	476	248	25	4	1370	186
8WS-81T	81	110	157	590	86	0.84	55500	588	274	25	4	1400	195
8WS-93T	93	125	178	670	86	0.84	55500	679	306	25	4	1480	210
8WS-110T	110	150	205	775	86	0.87	55500	822	370	35	4	1610	235

9" WATER FILLED SUBMERSIBLE MOTORS

TECHNICAL SPECIFICATIONS

Nominal Diameter	9" Motor (225 mm)
Type of Motor	Asynchronous, Induction Motor
Power Range	3 Ph - 45 kW to 110 kW
Voltage range	3 Phase 380-415 V, 50 Hz, A.C Supply
Voltage Tolerance	+6% & -10%
Nominal Speed	2900 rpm
Class of Insulation	F / Y / B
Mounting Standard	NEMA
Type of Winding	Re-windable, Wet Type
Winding Insulation	Polywrap / PVC / XLPE / PE2-PA
Degree of protection	IP 68
Direction of rotation	Anti-Clock wise
Type of duty	S1 (Continues)
Max. Liquid temp.	40°C / 55°C (High Temp Motor)
Minimum cooling flow	0.15 m/sec - Normal Temperature
	0.5 m/sec- High Temperature
Installation	Vertical / Horizontal
Shaft	Splined as per NEMA / Key Way
Starts per hour	10 Times
Max. Outer Diameter	225 mm
Method of starting	3 Phase - Direct On Line (DOL) / Star-Delta (SD) /
	Impedance / Auto-Transformer (ATS)/ Soft-starter



FEATURES

- ▶ Suitable for size of 225 mm (9") & above bore well.
- ▶ Stainless Steel high strength shaft.
- ▶ High Efficiency electrical design (Low Operation cost, cool running winding)
- ▶ Filled with Anti-corrosive liquid
- ▶ Specially designed thrust bearing to withstand high axial thrust loads.
- ▶ Winding connections with solid solder joints.
- ▶ Special magnet provision in motor base and newly designed self-spring action diaphragms.
- ▶ Epoxy powder coating on rotor.
- ▶ Graded cast iron housing with precisely fitted bush and special bearing counter provision for horizontal application of pump set.
- ▶ CED Coated

TECHNICAL DATA

9" Single Phase 380-415V Water Filled Motor

Model	kW	HP	Full Load Current (A)	Starting Current (A)	Full Load Efficiency %	Full Load Power Factor	Max. Down thrust Load (N)	Cable Size (sq. mm)	Cable Length (m)	Height (mm)	Net Weight (kg)
9WS-45T	45	60	75	255	83	0.81	60000	16	4	1465	238
9WS-55T	55	75	106	349	83	0.82	60000	25	4	1545	258
9WS-63T	63	85	122	396	84	0.83	60000	25	4	1615	275
9WS-75T	75	100	149	476	84	0.84	60000	25	4	1685	291
9WS-93T	93	125	168	524	84	0.85	60000	25	4	1815	323
9WS-110T	110	150	198	560	85	0.85	60000	35	4	1931	365

10" WATER FILLED SUBMERSIBLE MOTORS

TECHNICAL SPECIFICATIONS

Nominal Diameter	10" Motor (250 mm)
Type of Motor	Asynchronous, Induction Motor
Power Range	3 Ph- 83 kW to 185 kW
Voltage range	3 Phase 380-415 V, 50 Hz, A.C Supply
Voltage Tolerance	+6% & -10%
Nominal Speed	2900 rpm
Class of Insulation	F / Y / B
Mounting Standard	NEMA
Type of Winding	Re-windable, Wet Type
Winding Insulation	Polywrap / PVC / XLPE / PE2-PA
Degree of protection	IP 68
Direction of rotation	Anti-Clock wise
Type of duty	S1 (Continues)
Max. Liquid temp.	40° C / 55° C (High Temp Motor)
Minimum cooling flow	0.15 m/sec - Normal Temperature 0.5 m/sec- High Temperature
Installation	Vertical / Horizontal
Shaft	Splined as per NEMA / Key Way
Starts per hour	10 Times
Max. Outer Diameter	232 mm
Method of starting	3 Phase - Direct On Line (DOL) / Star-Delta (SD) / Impedance / Auto-Transformer (ATS)/ Soft-starter



FEATURES

- ▶ Suitable for size of 250 mm (10") & above bore well.
- ▶ Stainless Steel high strength shaft.
- ▶ High Efficiency electrical design (Low Operation cost, cool running winding)
- ▶ Filled with Anti-corrosive liquid
- ▶ Specially designed thrust bearing to withstand high axial thrust loads.
- ▶ Winding connections with solid solder joints.
- ▶ Special magnet provision in motor base and newly designed self-spring action diaphragms.
- ▶ Epoxy powder coating on rotor.
- ▶ CED Coated

TECHNICAL DATA

10" Three Phase 380-415V Water Filled Motor

Model	kW	HP	Full Load Current (A)	Starting Current (A)	Full Load Eff. %	Full Load Power Factor	Max. Down thrust Load (N)	Starting Torque (Nm)	Torque (Nm)	Cable Size (sq. mm)	Cable Length (m)	Height (mm)	Net Weight (kg)
10WS-83T	83	110	154	575	87	0.85	75000	281	344	25	5	1310	228
10WS-93T	93	125	177	661	86	0.85	75000	311	391	25	5	1370	256
10WS-110T	110	150	214	799	86	0.84	75000	364	472	35	5	1430	284
10WS-130T	130	175	243	905	88	0.85	75000	431	601	35	5	1510	311
10WS-150T	150	200	276	1030	88	0.85	75000	494	696	35	5	1610	338
10WS-165T	165	225	316	1177	87	0.85	75000	558	786	35	5	1740	370
10WS-185T	185	250	352	1312	87	0.85	75000	605	1109	35	5	1820	400

SOLAR / HIGH EFFICIENCY PMSM SUBMERSIBLE MOTORS (4" & 6")

Wedak's Green Series motors are High Efficiency & High speed, Re-windable, wet type, water cooled, PMSM Submersible motors, designed to drive Wedak's or any NEMA standard Borewell submersible pumps. They are available in 4" & 6" sizes as standard supply and beyond that against requirements. These motors are exclusive for solar applications, anyhow regular electric grid variants also available. The name PMSM stands for Permanent Magnet Synchronous Motor, which is more suitable to be operated by the DC electric energy produced by the Solar Photo-Voltaic cells. As the name denoted it accommodates permanent magnet in rotor body and results in many advantageous over the conventional AC supplied asynchronous motors. These motors run at higher speeds about 3300 - 4350 rpms. The windings are made up EC grade copper conductor and insulation & sheath of excellent insulation and water-proof property. High performance, specially designed, water lubricated thrust bearings are provided to withstand high axial thrust loads exerted by whole bore well water column and pumping systems. These motors are available in different types of MoCs like Fully Stainless Steel or Cast-Iron constructions. The mounting dimensions are as per NEMA Standards

APPLICATIONS



RESIDENTIAL



IRRIGATION



GENERAL
WATER SUPPLY



INDUSTRIAL



COMMERCIAL
BUILDINGS



SOLAR



HYDRO PNEUMATIC
APPLICATION



HOTEL



MINING



GARDING



FOUTIAN



OIL & GAS



DOMESTIC
WATER SUPPLY



FOOD PROCESSING
INDUSTRY



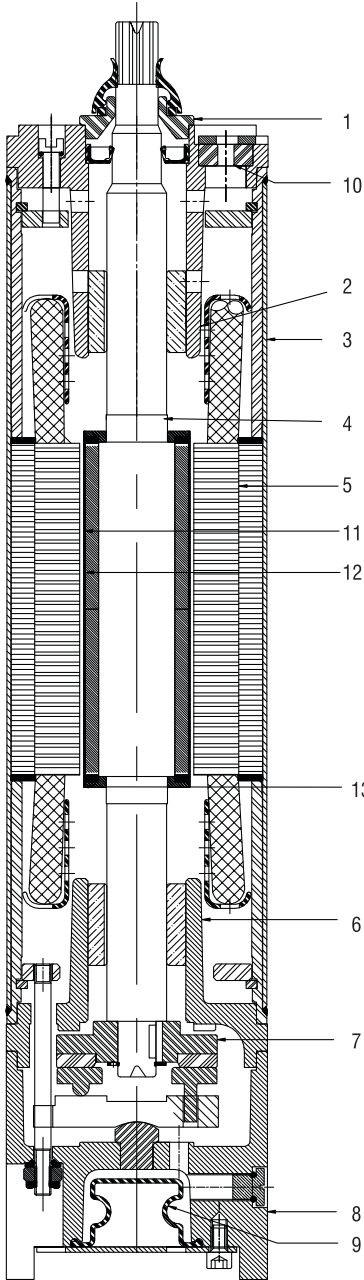
LIVESTOCK
WATERING



SPRINGER
SYSTEM

CROSS-SECTIONAL DRAWINGS & MATERIALS OF CONSTRUCTION

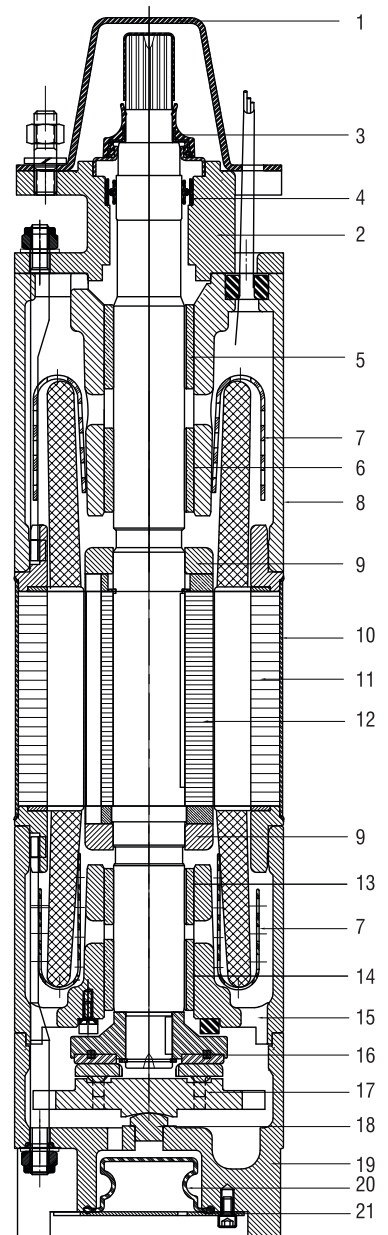
4"



MOC - 4"

NO.	PART NAME	MATERIAL
1	SAND SLINGER	NITRILE RUBBER + SS 410
2	ADAPTOR	STAINLESS STEEL
3	STATOR TUBE	SS-202
4	ROTOR STATOR	SS-420
5	LOWER HOUSING	CRNO-M47
6	T. B. PLATE	STAINLESS STEEL
7	MOTOR BASE	TEFLON + FG200
8	DIAPHRAGM	STAINLESS STEEL
9	GROMMET	NITRILE RUBBER
10	MAGNET	NITRILE RUBBER
11	ROTOR TUBE	PERMENANT MAGNET
12	ROTOR WASHER	SS-304SS-304

6"



MOC - 6"

NO.	PART NAME	MATERIAL
1	PROTECTION CLAMP	MS
2	MOTOR TOP (ADAPTOR)	CI,FG-260 / SS
3	SAND SLINGER	NITRILE RUBBER
4	OIL / MECHANICAL SEAL	NITRILE RUBBER+SS
5	RUBBER BUSH	NITRILE RUBBER+SS
6	BEARING BUSH	CARBON
7	WINDING CAP	LDPE
8	UPPER HOUSING	CI,FG-260 / SS
9	BALANCE RING	CI,FG-150
10	STATOR TUBE	SS- 202
11	STATOR	STAMPING-CRNO M-47
12	ROTOR	STAMPING-CRNO M-47
13	RUBBER BUSH	NITRILE RUBBER+SS
14	BEARING BUSH	CARBON
15	LOWER HOUSING	CI,FG-260 / SS
16	T.B.PLATE	CI+ CARBON
17	THRUST BEARING BASE	SS- 420
18	ROCKER SUPPORT	SS- 410
19	MOTOR BASE	CI,FG-260 / SS
20	DAIPHRAGM	NITRILE RUBBER
21	MOTOR BASE PLATE	SS - 410
22	MAGNET	PERMANENT MAGNET

4" & 6" WATER FILLED SUBMERSIBLE MOTORS

TECHNICAL SPECIFICATIONS

Nominal Diameter	4" (100 mm)	6" (150 mm)
Max. Outer Diameter	3.74" (95mm)	5.66" (144mm)
Power Range	1 HP to 10 HP	15 HP to 20 HP
Nominal Speed	3300 rpm & 4500 rpm	3300 rpm & 4500 rpm
Voltage range	80V to 450V, 60Hz, A.C. Supply	80V to 450V, 60Hz, A.C. Supply
Class of Insulation	F / Y / B	F / Y / B
Degree of protection	IP 68	IP 68
Direction of rotation	Anti-Clock wise	Anti-Clock wise
Type of Duty	S1 (Continues)	S1 (Continues)
Min. Cooling flow	0.15 m/sec	0.15 m/sec
Max. Liquid Temp.	92°F / 120°F (33°C / 50°C)	92°F / 120°F (33°C / 50°C)
Starts per hour	20 Times	20 Times
Method of starting	VFD	VFD
Cable lead out type	3 Core Flat Cable	3 Core Flat Cable



FEATURES

- ▶ Up to 90% Motor Efficiency
- ▶ Higher Efficiency than conventional motors.
- ▶ Easy Rewindable & Repairable Water Filled Submersible Motor.
- ▶ Smooth Starting Using VFD Controller and can be Used Low Voltage Area.
- ▶ Virtually NO Maintenance Cost.
- ▶ Premium Material SS/CI Robust Construction
- ▶ NEMA Standards,
- ▶ Suitable for 80 to 415 Voltages for 3-phase.
- ▶ Frequency: Upto 110 Hz / 145 Hz
- ▶ Speed: 3300 RPM / 4350 RPM

TECHNICAL DATA

4" PMSM (DC) Smart - Water Filled Motor - 4 Pole, 15-145Hz, 3300-4350 rpm

Model	Power P ₂ (kW)	Power P ₂ (HP)	Motor input Power-P ₁ (W)	Motor Nominal Voltage (V)	Max. PV Panel Power Voltage - Vmp (V)	Current at Vmp - Imp (A)	Full Load Efficiency (%)	Full Load Power Factor	Height (mm)	Net Weight (kg)
4GWS-0.75D-B	0.75	1	1200	80	111	9	79	0.83	390	12
4GWS-0.75D-C	0.75	1	1200	110	148	10	79	0.83	390	12
4GWS-1.5D-D	1.5	2	1800	160	222	9	81	0.83	410	12.5
4GWS-2.2D-E	2.2	3	3000	230	370	10	85	0.82	440	15
4GWS-3.7D-G	3.7	5	4800	380	555	10	85	0.82	490	18
4GWS-5.5D-F	5.5	7.5	6750	280	407	18	87	0.84	540	20
4GWS-7.5D-G	7.5	10	9000	380	555	18	87	0.84	600	24

6" PMSM (DC) Smart - Water Filled Motor - 4 Pole, 15-145Hz, 3300-4350 rpm

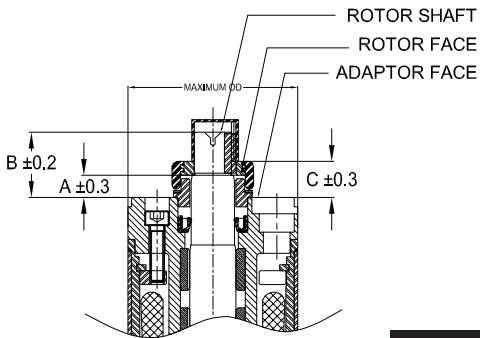
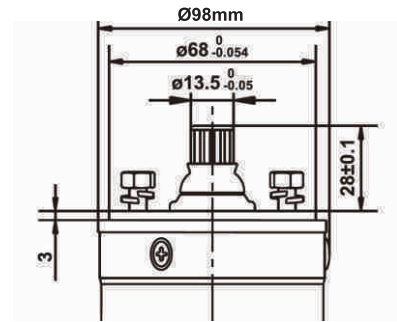
Model	Power P ₂ (kW)	Power P ₂ (HP)	Motor input Power-P ₁ (W)	Motor Nominal Voltage (V)	Max. PV Panel Power Voltage - Vmp (V)	Current at Vmp - Imp (A)	Full Load Efficiency (%)	Full Load Power Factor	Height (mm)	Net Weight (kg)
6GWS-11D-G	11	15	14400	380	555	27	90	0.85	769	57
6GWS-15D-G	15	20	18000	380	555	36	90	0.86	841	65

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MOUNTING DIMENSIONAL DETAILS

OIL FILLED MOTORS

Nom. Diameter	Height			Maxi OD
	A	B	C	
4"	9.5	28	15.5	Ø98.0

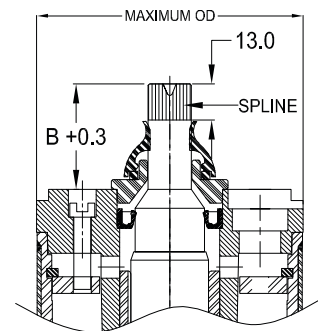


WATER FILLED MOTORS

Nom. Diameter	Height			Play	Maxi OD
	A	B	C		
3"	9.5	28	15.5	1.0 to 2.0	Ø74.0

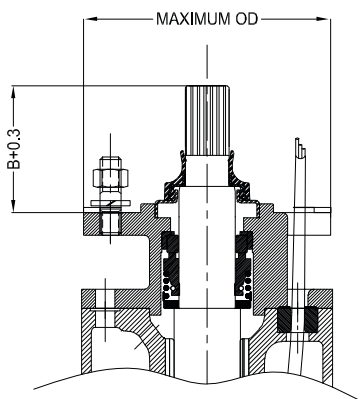
WATER FILLED MOTORS

Nom. Diameter	Height	Play	Maxi OD
	B		
4"	38	1.0 to 2.0	Ø96.0



WATER FILLED MOTORS

Height and Play Setting Details			
Nom. Diameter	Height	Play	Maxi OD
	B		
5"	72.8	1.5 to 2.0	Ø120.0
6"	72.8	1.5 to 2.0	Ø144.0
8"	101.5	1.5 to 2.5	Ø180.0
8H"	101.5	1.5 to 2.5	Ø185.0
8" (110-150 Hp)	101.5	1.5 to 2.5	Ø192.0
9"	101.5	1.5 to 2.5	Ø222.0
10"	101.25	1.5 to 2.0	Ø232.0



CABLE SELECTION CHART

Submersible Pumpset Cable Selection Chart for 220 Voltage - Single Phase - 50 Hz

HP	INSTALLATION DEPTH IN MTR																					
	10	20	30	40	50	60	70	80	90	100	110	128	140	180	200	220	270	320	370	420	470	500
0.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5	4	4	4	6	6	6	6
0.75	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5	2.5	4	4	4	6	6	10	10	10	10
1	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5	2.5	4	4	4	4	6	6	6	10	10	10	16
1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	4	4	4	4	6	6	6	10	10	10	16	16	16	16	25
2	2.5	2.5	2.5	2.5	2.5	2.5	4	4	4	4	6	6	6	10	10	10	16	16	16	25	25	25
3	2.5	2.5	2.5	2.5	4	4	6	6	6	6	10	10	10	16	16	16	25	25	25	35	35	35
4	4	4	4	4	4	6	6	6	10	10	10	16	16	16	16	25	25	25	35	35	35	35
5	4	4	4	4	6	6	10	10	10	10	10	16	16	25	25	25	35	35	35	50	50	50
6	6	6	6	6	10	10	10	10	10	16	16	16	25	25	25	35	35	35	50	50	50	50
7.5	6	6	6	6	10	10	10	10	10	16	16	25	25	25	35	35	35	50	50	50	50	50
10	10	10	10	10	10	10	10	10	16	25	25	25	25	35	35	35	50	50	50	50	50	50

Submersible Motor Three Phase, 380 - 415V, 50Hz, Direct on Line (D.O.L) / Impedance (Single Cable)

kW	HP	Cable Size sq.mm, copper wire - 70°C rated insulation															
		2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300	400
4	5.5	180	290	430	710												
5.5	7.5	130	210	320	530	830											
7.5	10	80	150	230	390	610	940										
9.3	12.5	80	130	190	320	510	770										
11	15	60	100	160	270	430	650	890									
13	17.5	90	140	230	370	560	770										
15	20	80	120	200	320	490	880	920									
18.5	25	100	160	260	400	540	740	980									
22	30	140	220	340	470	630	840										
26	35	120	190	290	380	540	720	920									
30	40	150	250	340	470	520	790	940									
37	50	130	200	280	380	600	640	760	890	1020							
45	60			170	240	330	440	570	890	810	940						
52	70			150*	210	290	390	500	800	710	820	980					
55	75	140*	190	270	360	470	5600	660	770	910							
60	80			180	250	340	440	530	630	730	870	1010					
67	90	160*	220	300	390	460	550	630	750	860	1000						
75	100	200*	270	350	420	490	570	680	780	910							
83	111	180*	250	320	390	450	530	630	730	850							
85	114	230	290	350	410	480	570	650	750								
93	125	220*	280	340	390	460	550	620	720								
110	150	220	270	310	360	420	480	550									
130	175	200*	240	280	330	390	440	520									
150	200	200*	240	280	330	380	440										
185	250	210*	250	280	330												

Submersible Motor Three Phase, 380 - 415V, 50Hz, Star Delta (S.D.) Double Cable

kW	HP	Cable Size sq.mm, copper wire - 70°C rated insulation															
		2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300	400
4	5.5	270	430	640													
5.5	7.5	190	310	480	790												
7.5	10	130	220	340	580	910											
9.3	12.5	120	180	280	480	760											
11	15	80	150	240	400	640	970										
13	17.5	70	130	210	340	550	840										
15	20	70	120	180	300	480	730	1020									
18.5	25	60	90	150	240	390	600	810									
22	30	70	120	210	330	510	700	940									
26	35	60*	100	180	280	430	580	810									
30	40	90	150	240	370	610	700	930									
37	50	120	190	300	420	570	750	950									
45	60	100	160	250	360	490	550	850									
52	70	90*	150	220	310	430	580	750	800								
55	75	130	210	280	400	540	700	840	890								
60	80	120	190	270	370	510	660	790	940								
67	90		100	180	240	330	450	580	690	820	940						
75	100			90*	150	210	300	400	520	630	730	850	1020				
83	111			130	190	270	370	480	580	670	790	940					
85	114			180*	180	250	340	430	520	610	720	850	870				
93	125			120*	160	240	330	420	510	580	690	820	830				
110	150	130*	190	250	330	400	460	540	630	720	820						
130	175	160*	220	300	360	420	490	580	660	780							
150	200	150*	190	250	300	360	420	490	570	660							
185	250	180*	240	270	310	370	420	490									

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CONVERSION TABLE

FLOW RATE

litre per second l/s	litre per minute l/min	cubic meter per hour m ³ /h	cubic meter per hour ft ³ /h	cubic foot per minute ft ³ /min	imp.gallon per minute imp.gal./min	US gallon per minute US gal./min	US barrel per day is barrel/d (petroleum)
1	60	3.6	127.133	2.1189	13.2	15.85	543.439
0.017	1	0.06	2.1189	0.0353	0.22	0.264	9.057
0.278	16.667	1	35.3147	0.5886	3.666	4.403	150.955
0.008	0.472	0.0283	1	0.0167	0.104	0.125	4.275
0.472	28.317	1.6990	60	1	6.229	7.480	256.475
0.076	4.546	0.2728	9.6326	0.1605	1	1.201	41.175
0.063	3.785	0.2271	8.0209	0.1337	0.833	1	34.286
0.002	0.110	0.0066	0.2339	0.0039	0.024	0.029	1

LIQUID

Cubic meter m ³	litre l	milli litre ml	imp. gallon imp. gal	US gallon US gal	cubic foot ft ³
1	1000	1 x 10 ⁶	220	264.2	35.3147
0.001	1	1000	0.22	0.2642	0.0353
1 x 10 ⁻⁶	0.001	1	22 x 10 ⁻⁴	2.642 x 10 ⁻⁴	3.53 x 10 ⁻⁵
0.00455	4.546	4546	1	1.201	0.1605
0.00378	3.785	3785	0.8327	1	0.1337
0.0283	28.317	28317	6.2288	7.4805	1

LIQUID HEAD AND PRESSURE

newton per square meter N/m ² (Pa)	kilo pascal kPa	bar	kilogram force per square centimeter Kgf/cm ²	pound force per square inch psi	foot for water ft H ₂ O	meter for water ft H ₂ O	millimeter of mercury mm Hg	inch of mercury in Hg
1	0.001	1 x 10 ⁻⁵	1.02 x 10 ⁻⁵	1.45 x 10 ⁻⁴	3.35 x 10 ⁻⁴	1.02 x 10 ⁻⁴	0.0075	2.95 x 10 ⁻⁴
1000	1	0.01	0.0102	0.145	0.335	0.102	7.5	0.295
1 x 10 ⁻⁵	100	1	1.02	14.5	33.52	10.2	750.1	29.53
98,067	98.07	0.981	1	14.22	32.81	10	735.6	28.96
6895	6.895	0.069	0.0703	1	2.31	0.703	51.72	2.036
2984	2.984	0.03	0.0305	0.433	1	0.305	22.42	0.882
9789	9.789	0.098	0.1	1.42	3.28	1	73.42	2.891
133.3	0.133	0.0013	0.0014	0.019	0.045	0.014	1	0.039
3386	3.386	0.0338	0.0345	0.491	1.133	0.0345	25.4	1

LENGTH

1609.37 metres = - 1.60934 kilometers

millimeter mm	centimeter cm	meter m	inch in	foot ft	yard yd
1	0.1	0.001	0.0394	0.0033	0.0011
10	1	0.01	0.3937	0.0328	0.0109
1000	100	1	39.3701	3.2808	1.0936
25.4	2.54	0.0254	1	0.0833	0.0278
304.8	30.48	0.3048	12	1	0.3333
914.4	91.44	0.9144	36	3	1

1 Kilometer = 1000 metres = 0.62137 miles 1 mile =

MASS

kilogram kg	pound lb	hundred weight (cwt)	tonne t	ton long tn	short ton sh tn
1	2.205	0.0197	0.001	9.84 x 10 ⁻⁴	0.0011
0.454	1	0.0089	4.54 x 10 ⁻⁴	4.46 x 10 ⁻⁴	5.0 x 10 ⁻⁴
50.802	112	1	0.0508	0.05	0.056
1000	2204.6	19.684	1	0.9842	1.1023
1016	2240	20	1.0161	1	1.102
907.2	2000	17.857	0.9072	0.8929	1

TEMPERATURE

To Convert From	To	Use Formula
Temperature Celsius, tc	Temperature Kelvin, tk	K = tc + 273.15
Temperature Fahrenheit, tf	Temperature Kelvin, tk	K = (tf + 459.67 / 1.8)
Temperature Celsius, tc	Temperature Fahrenheit, tf	F = 1.8 tc + 32
Temperature Fahrenheit, tf	Temperature Celsius, tc	C = (tf - 32) / 1.8
Temperature Kelvin, tk	Temperature Celsius, tc	C = tk - 273.15
Temperature Kelvin, tk	Temperature Fahrenheit, tf	F = 1.8tk - 459.67



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