



C.R.I. MOTORS

Pumping trust. Worldwide.

WATER FILLED REWINDABLE SUBMERSIBLE MOTORS **60Hz**



An ISO 9001 Company



**For specific models only
**Products bearing NSF mark are
only NSF certified



*For specific models only
*Products bearing CE mark
are only CE certified





C.R.I. FLUID SYSTEMS

Pumping trust. Worldwide.

THE BEGINNING

of C.R.I., way back in 1961, was a resolute attempt to produce a few irrigation equipments using the limited facilities of an inhouse foundry. Eventually the founder's dream was coming true as the small production unit he started kept growing rapidly. Now, after more than five eventful decades, it is an enormous, widely reputed organization, which produces more than 9000 varieties of perfectly engineered pumps and motors and sells its products in 120 countries across 6 continents.

C.R.I. IS ONE AMONG

the few pioneers in the world to produce 100% stainless steel submersible pumps and it is a leading manufacturer of environment friendly water filled, rewindable motors. C.R.I. has extensive range of industrial pumps that include end suction pumps, Slurry pumps, Chemical pumps, Waste water pumps, Split case pumps, Booster pumps etc. today C.R.I. is rubbing its shoulders with the best brands in the world, with advanced technology and safety standards as its hallmarks.

THE INFRASTRUCTURE

of C.R.I. is pretty comprehensive with state-of-the-art machineries and a high potential R&D wing, Total production area over 3.2 million SF, Fully equipped with world class, Machineries with a manufacturing capacities of more than 3 Million pumps and Motors per year and over 9000 product variant are accredited with international quality certifications such as NSF, CSA, CE, UL, TSE, ISO 9001.

NEEDLESS TO SAY,

behind this legendary growth lies the untiring, innovative, enthusiastic and dedicated team work. and, of course, a flawlessly maintained value system too. The name C.R.I. itself encapsulates the company's ethos:

"Commitment, Reliability, Innovation".





C.R.I. FLUID SYSTEMS

Pumping trust. Worldwide.

Vision, Mission and Values

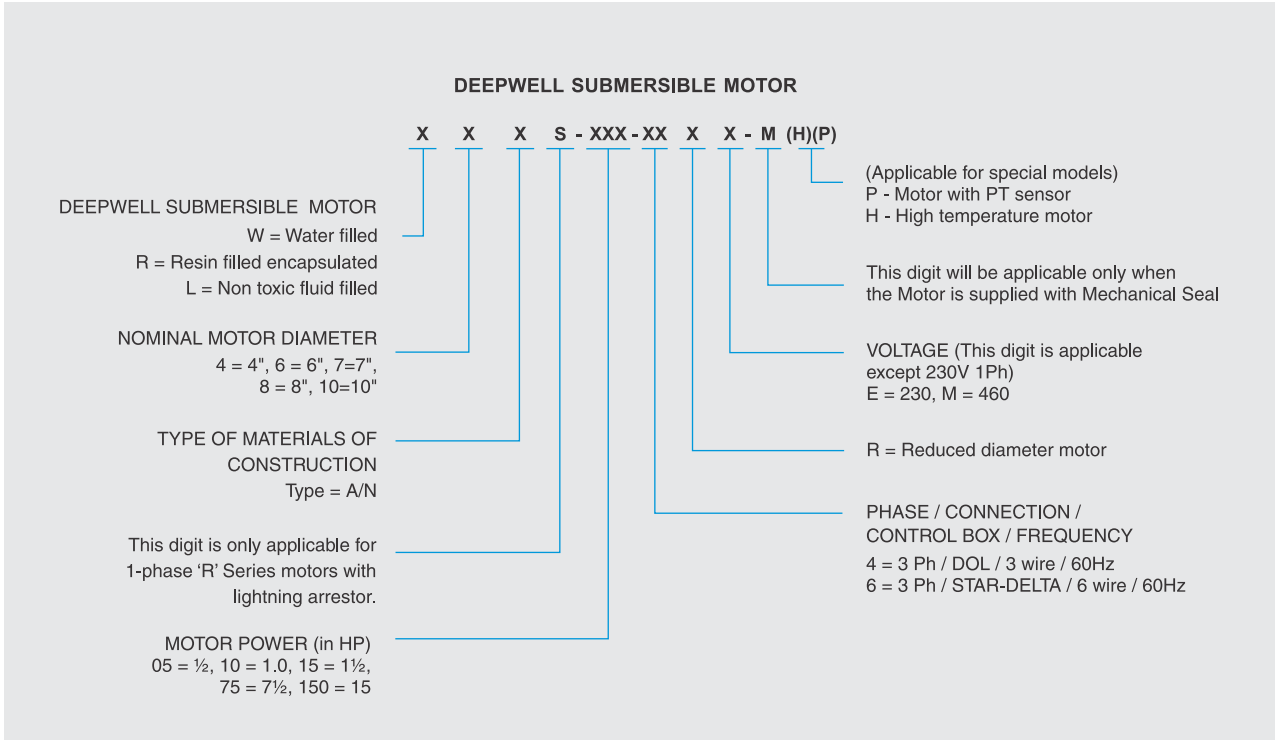
To be the industry leader providing best - in - class fluid management solutions to individual and institutional customers and societies in our chosen markets.

We will achieve this through our dedicated efforts to enhance the welfare of all our stakeholders and by living by our values of **commitment, reliability and innovation.**

C O N T E N T S

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MODEL IDENTIFICATION CODE



Sample Description :
W4A-20-4E-2HP, 230V, 3Ph, 60Hz Motor
W6A-100-4MM-10HP, 460V, 3Ph, 60Hz M.Seal type motor

WATER FILLED REWINDABLE SUBMERSIBLE MOTORS

Nominal Diameter : **4", 6", 7", 8" & 10"**

"W" Series

Description

'W' Series Submersible motors are eco-friendly, wet wound, water filled and rewindable type. The stator windings are of water proof insulated copper winding wires. Dynamically balanced rotor maintains uniform clearance to increase the life cycle of the water lubricated bush bearings. Specially designed thrust bearings are used to withstand high axial thrust loads with minimum wear and tear.

Pressure equalizing rubber diaphragm is provided to balance the pressure and volume variations of the water inside the motor. Motor sealings are made by means of 'O' rings, lip seal & Mechanical seal etc. Shaft seal and sand guard prevents ingress of well water, sand and fibre particles into the motor. Care should be taken to ensure that the motor does not run when it is not submerged in the water. To prevent the motor from dry running, install dry run preventer. The motor needs a constant flow of water passed over it's body to keep it at correct operating temperature. Ideally the motor should be set just above the final yield point of bore well and when the level is not ascertained, fit a "flow inducer pipe" over the pumpset to ensure adequate cooling. Mounting dimensions are in accordance with NEMA/International standards.

Features

- Manufactured in ISO 9001 certified facilities
- Water cooled re-windable motor
- High efficiency
- Specially designed thrust bearing to withstand high axial thrust loads.
- Can be easily dismantled and repaired

Applications

These submersible motors are suitable to drive deepwell submersible pumpsets used for

- Ground water supply to residences, water works and industries
- Commercial
- Irrigation in agriculture and horticulture
- Pressure boosting system
- Livestock watering
- Coal bed methane (CBM)



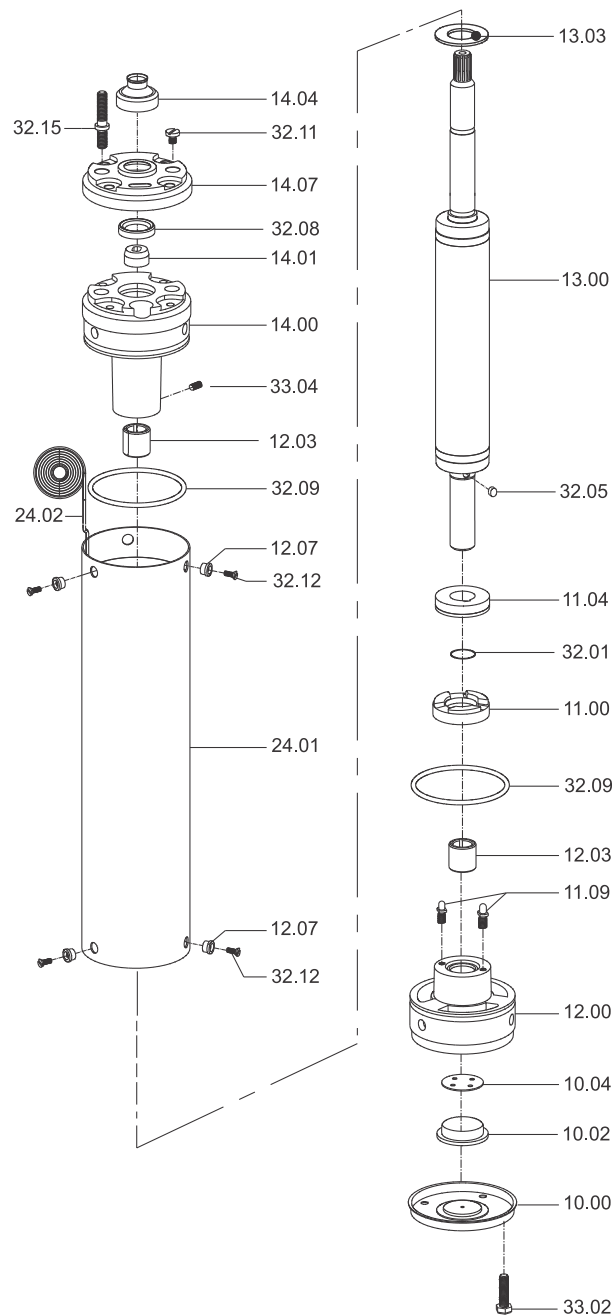


WATER FILLED REWINDABLE SUBMERSIBLE MOTORS

Nominal Diameter : 4"

"W" Series
(½ to 1½ HP)

Exploded view



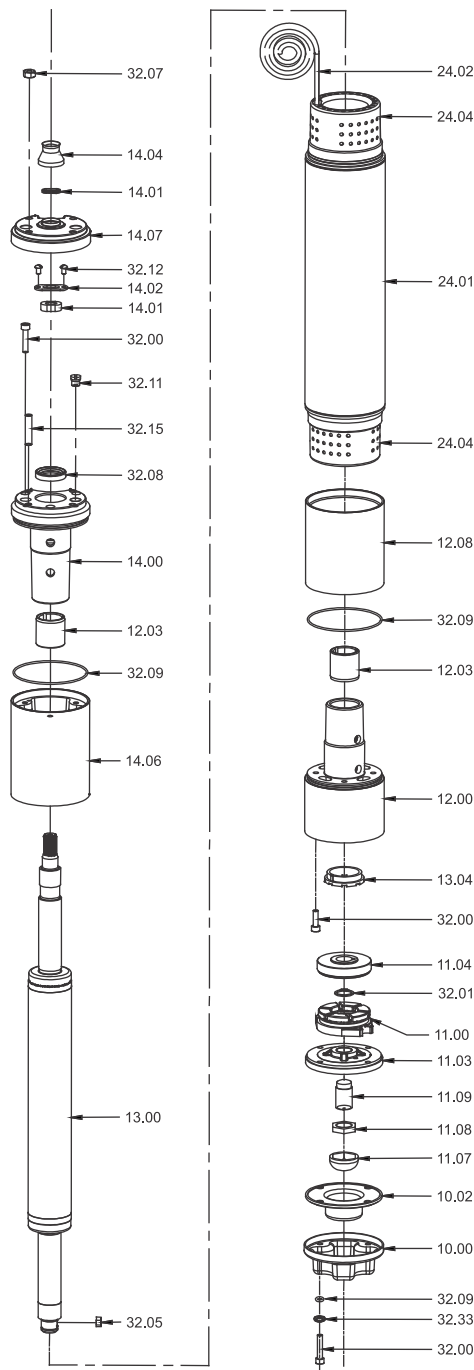
Part No.	Part Name
10.00	Motor Base
10.02	Diaphragm
10.04	Diaphragm guide Plate
11.00	Thrust Base
11.04	Thrust Pad
11.09	Rocker Screw
12.00	Lower Housing
12.03	Bush
12.07	Guide Bush
13.00	Rotor
13.03	Upthrust washer
14.00	Upper Housing
14.01	Cable Grommet
14.04	Rubber Sand Guard
14.07	Upper Housing Shell
24.01	Wound Stator
24.02	Lead out cable
32.01	Circlip
32.05	Pad key
32.08	Oil seal
32.09	O - Ring
32.11	Drain plug
32.12	Screw
32.15	Stud
33.02	Bolt
33.04	Earth screw

WATER FILLED REWINDABLE SUBMERSIBLE MOTORS

Nominal Diameter : 4"

"W" Series
(2 to 10 HP)

Exploded view



Part No.	Part Name
32.00	Bolt
32.33	Cap Washer
32.09	O Ring
10.00	Motor Base
10.02	Diaphragm
11.07	Rocker Screw Cap
11.08	Rocker Screw Nut
11.09	Rocker Screw
11.03	Thrust Base Plate
11.00	Thrust Base
32.01	Circlip
11.04	Thrust Pad
13.04	Counter Thrust Pad
12.00	Lower Housing
12.03	Carbon Bush
12.08	Lower Pipe
24.04	Winding Guard
24.01	Wound Stator
24.02	Lead Out Cable
32.05	Key
13.00	Rotor
14.06	Upper Pipe
14.00	Upper Housing
32.08	Oil Seal
32.15	Stud
32.11	Drain Plug
14.01	Cable Grommet
14.02	Grommet Clamp
32.12	Screw
14.07	Upper Housing Shell
14.04	Rubber Sand Guard
32.07	Nut



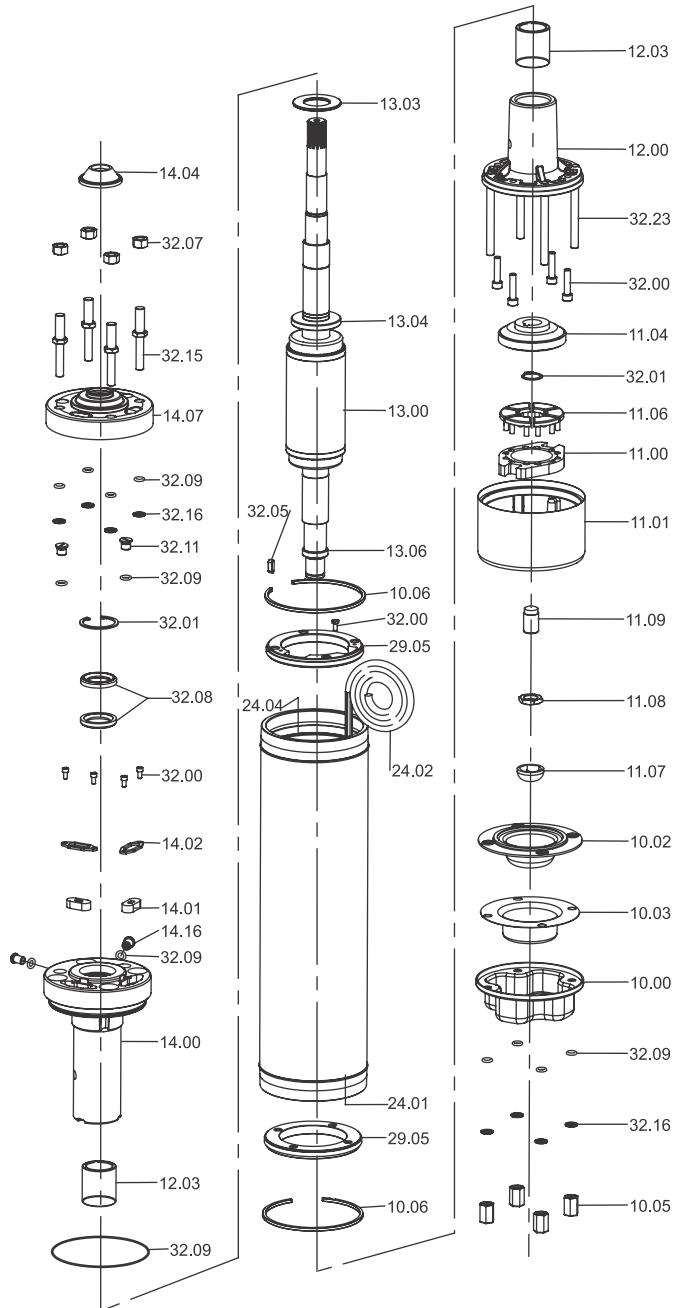
WATER FILLED REWINDABLE SUBMERSIBLE MOTORS

Nominal Diameter : **6"**

"W" Series
(5 to 30 HP)

Flange Construction (A - Type)

Exploded view



Part No.	Part Name
10.00	Motor Base
10.02	Diaphragm
10.03	Diaphragm Bottom Plate
10.05	Doom nut
10.06	Snap Ring
11.00	Thrust Base
11.01	Thrust Base Housing
11.04	Thrust Pad
11.06	Thrust Segment
11.07	Rocker Cap
11.08	Rocker Lock nut
11.09	Rocker Screw
12.00	Lower Housing
12.03	Bush-Carbon
13.00	Rotor
13.03	Up Thrust Washer
13.04	Counter Thrust Pad
13.06	Pad Supporting Ring
14.00	Upper Housing
14.01	Cable Grommet
14.02	Cable Grommet Lock Plate
14.04	Sand Guard-Rubber
14.07	Upper Housing Shell
14.16	Inlet / Outlet Valve
24.01	Wound Stator
24.02	Cable
24.04	Winding Guard
29.05	Retaining Ring
32.00	Bolt
32.01	Circlip
32.05	Key
32.07	Nut
32.08	Oil Seal
32.09	O-ring
32.11	Plug
32.15	Stud
32.16	Washer
32.19	Gasket
32.23	Tie Rod

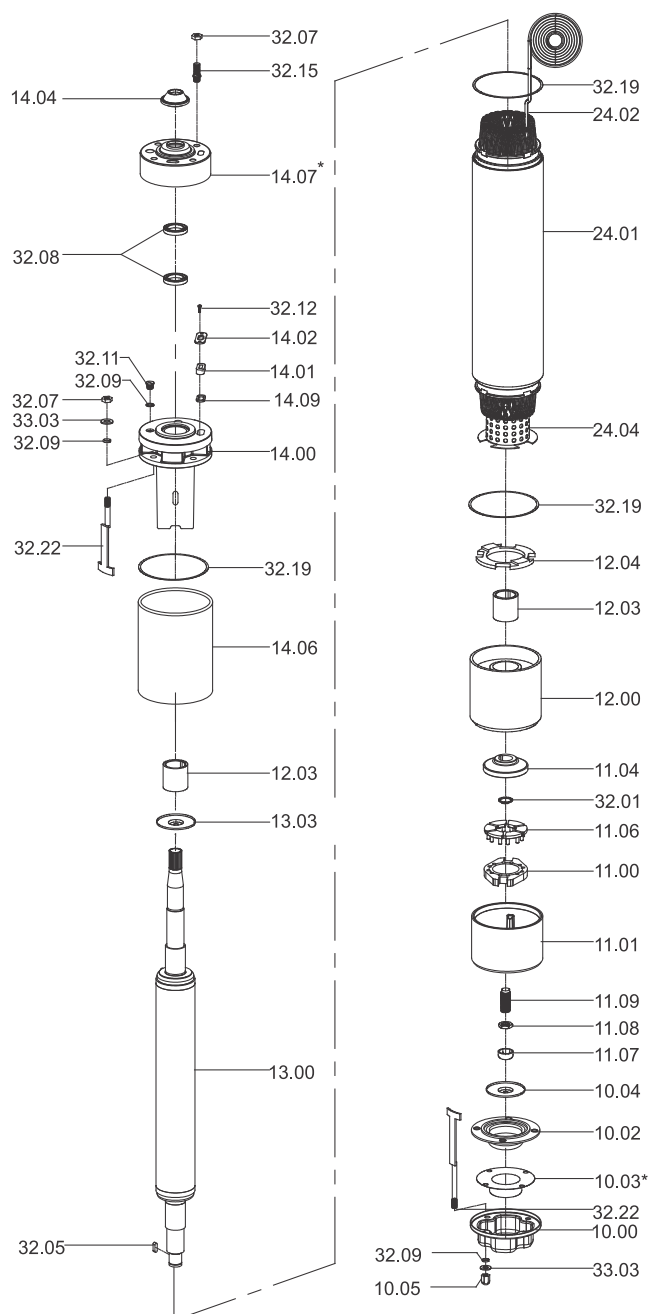
WATER FILLED REWINDABLE SUBMERSIBLE MOTORS

Nominal Diameter : **6"**

"W" Series
(40 to 60 HP)

T-Bolt construction (A-Type)

Exploded view





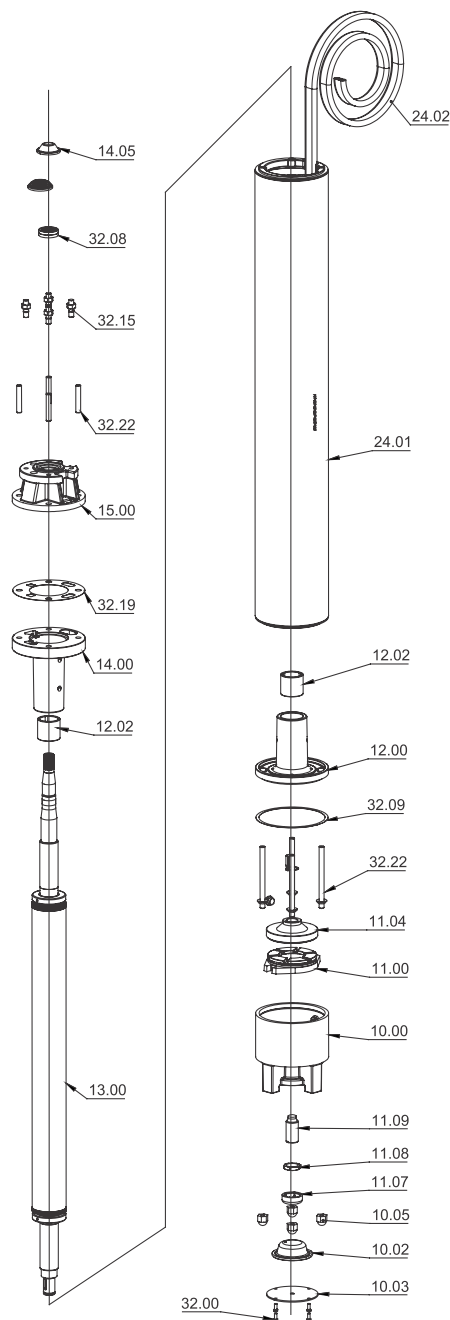
WATER FILLED REWINDABLE SUBMERSIBLE MOTORS

Nominal Diameter : **7"**

"W" Series
(50 to 100 HP)

T-Bolt construction (B-Type)

Exploded view



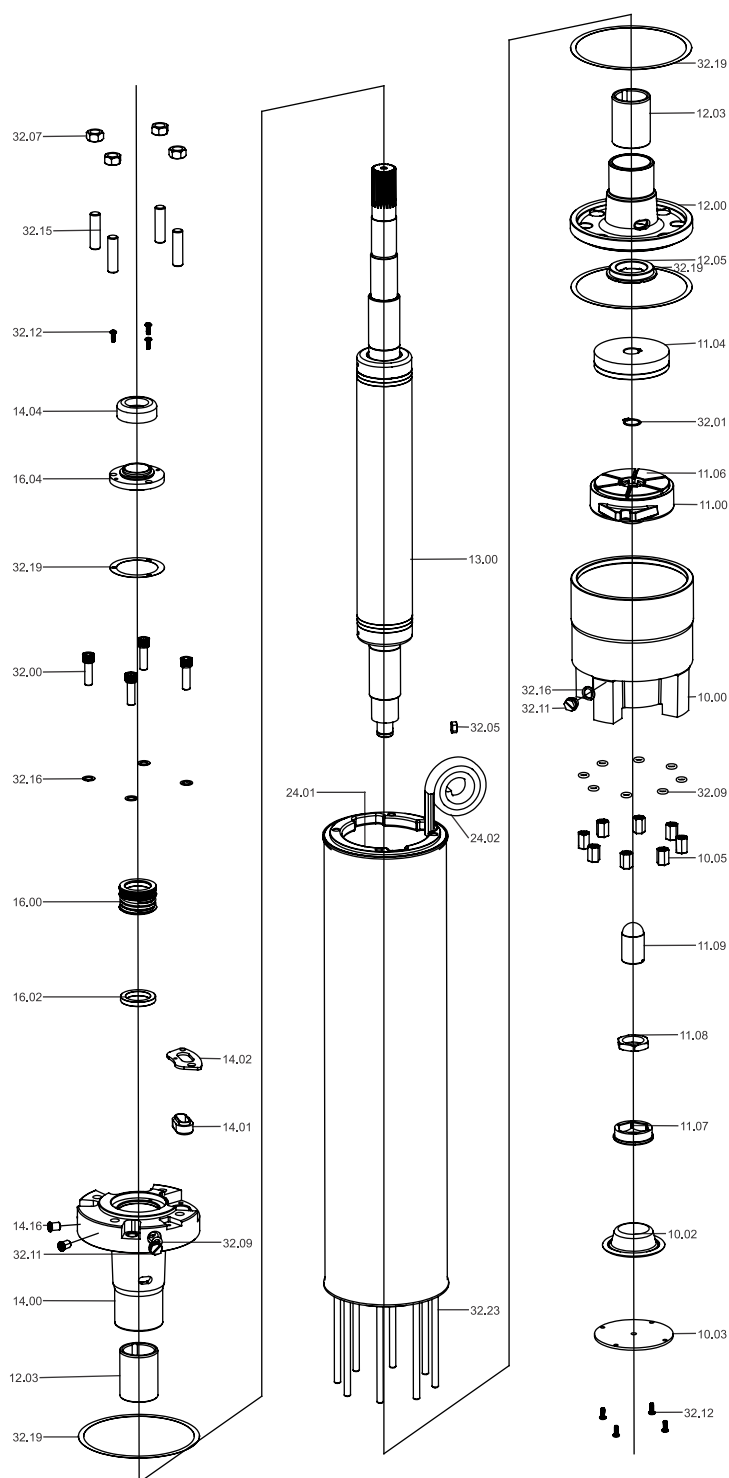
Part No.	Part Name
10.00	Motor Base
10.02	Diaphragm
10.03	Diaphragm Plate
10.05	Doom nut
11.00	Thrust Base
11.04	Thrust Pad
11.07	Rocker Cap
11.08	Rocker Lock nut
11.09	Rocker Screw
12.00	Lower Housing
12.02	Bush-LTB
13.00	Rotor
14.00	Upper Housing
14.05	Sand Guard-SS/Bakelite
15.00	Oil Seal housing
24.01	Wound Stator
24.02	Cable
32.00	Bolt
32.08	Oil Seal
32.09	O-ring
32.15	Stud
32.19	Gasket
32.22	Tie Rod

WATER FILLED REWINDABLE SUBMERSIBLE MOTORS

Nominal Diameter : **8"**

"W" Series
(50 to 150 HP)

Exploded view



Part No.	Part Name
10.00	Motor Base
10.02	Diaphragm
10.03	Diaphragm Bottom Plate
10.05	Doom nut
11.00	Thrust Base
11.04	Thrust Pad
11.06	Thrust Segment
11.07	Rocker Cap
11.08	Rocker Lock nut
11.09	Rocker Screw
12.00	Lower Housing
12.03	Bush-Carbon
12.05	Counter Thrust Ring
13.00	Rotor
14.00	Upper Housing
14.01	Cable Grommet
14.02	Cable Grommet Lock Plate
14.04	Sand Guard-Rubber
14.16	Inlet / Outlet Valve
16.00	Mechanical Seal
16.02	Mechanical Seal Rest Washer
16.04	Mechanical Seal Guide Plate
24.01	Wound Stator
24.02	Cable
32.00	Bolt
32.01	Circlip
32.05	Key
32.07	Nut
32.09	O-ring
32.11	Plug
32.12	Screw
32.15	Stud
32.16	Washer
32.19	Gasket
32.23	Tie Rod

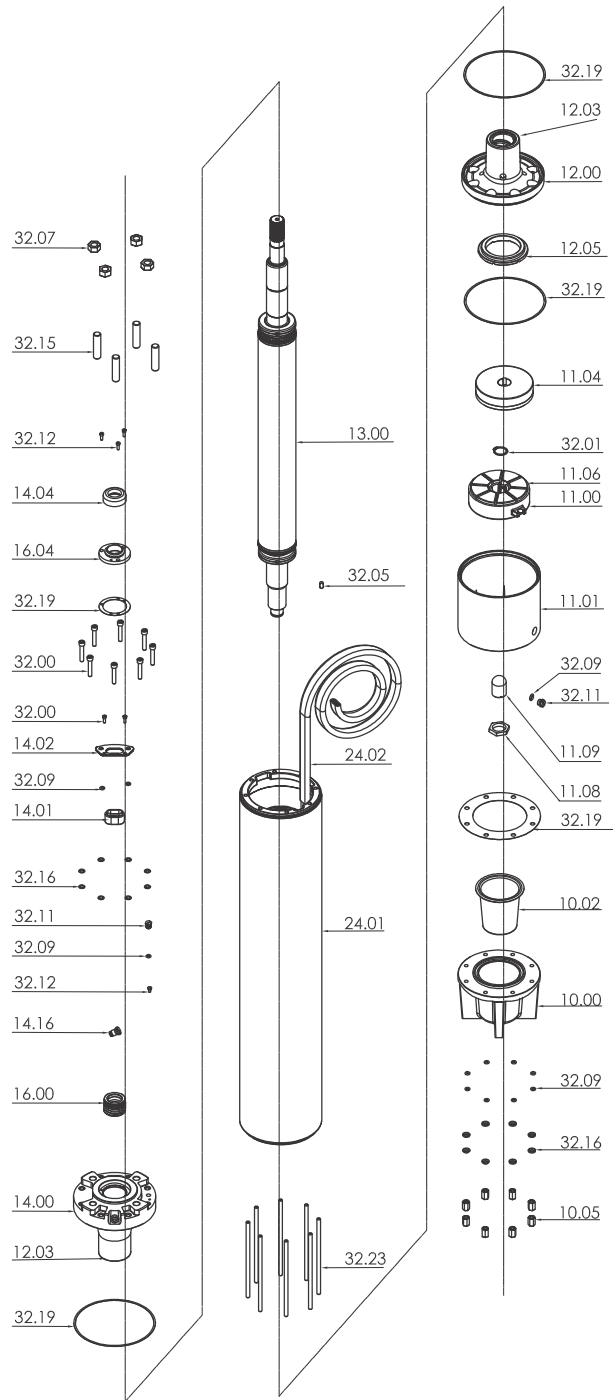


WATER FILLED REWINDABLE SUBMERSIBLE MOTORS

Nominal Diameter : 10"

"W" Series
(150 to 250 HP)

Exploded view



Part No.	Part Name
10.00	Motor Base
10.02	Diaphragm
10.05	Doom Nut
11.00	Thrust Base
11.01	Thrust Base Housing
11.04	Thrust Pad
11.06	Thrust Segment
11.08	Rocker Lock Nut
11.09	Rocker Screw
12.00	Lower Housing
12.03	Bush - Carbon
12.05	Counter Thrust Ring
13.00	Rotor
14.00	Upper Housing
14.01	Cable Grommet
14.02	Cable Grommet Lock Plate
14.04	Sand Guard Rubber
14.16	Inlet / Outlet Valve
16.00	Mechanical Seal
16.04	Mechanical Seal Guide Plate
24.01	Wound Stator
24.02	Cable
32.00	Bolt
32.01	Circlip
32.05	Key
32.07	Nut
32.09	O-Ring
32.11	Plug
32.12	Screw
32.15	Stud
32.16	Washer
32.19	Gasket
32.23	Tie Rod

WATER FILLED REWINDABLE SUBMERSIBLE MOTORS

Nominal Diameter : **4"**

"W" Series

Specifications

Nominal Dia	4"
Maximum Outer Diameter	3.85"
Power Range	½ HP to 10 HP
Speed	3450 rpm
Version	Three Phase - 230V & 460V, 60Hz, A.C Supply
Class of Insulation	Y
Ingress Protection	IP 58
Direction of Rotation	Electrically Reversible
Type of Duty	S1 (Continuous)
Down Thrust Load	0.5 HP to 2 HP - 800 lbs
	3 HP to 10 HP - 1500 lbs
Minimum Cooling Flow Along the Motor	0.26 ft/sec
Maximum Liquid Temperature	86°F
Maximum Starts per Hour	13 Times (upto 5.5HP) / 4 Times (7.5 & 10 HP)
Shaft End	Splines
Mounting Standard	NEMA
Method of Starting	Direct On Line (DOL)
Cable Lead out	Permanently Connected and Sealed 3 Core EPDM Flat Cable



Materials of Construction

Part Name	Type - A (W4A)	Type - N (W4N)
Oil Seal	Nitrile Butyl Rubber (NBR)	Nitrile Butyl Rubber (NBR)
Upper and lower housing	Cast Iron	Cast Iron
Housing Shell	SS - 304	SS - 316
Stator Shell	SS - 304	SS - 316
Thrust Pad	Graphite Carbon	Graphite Carbon
Thrust Bearing	SS - 420	SS - 420
Diaphragm	Nitrile Butyl Rubber (NBR)	Nitrile Butyl Rubber (NBR)
Motor Base	SS - 304	SS - 316
Bush	Carbon	Carbon
Shaft	AISI 1040 with SS410 (0.5HP - 1.5HP) AISI 1040 (2HP - 10HP)	AISI 1040 with SS410 (0.5HP - 1.5HP) AISI 1040 (2HP - 10HP)
Shaft Sleeve	SS410 (2HP - 10HP)	SS410 (2HP - 10HP)
Shaft Extension	UNS 17400 (2-10 HP)	UNS 17400 (2-10 HP)

230V, THREE PHASE

ELECTRICAL DATA

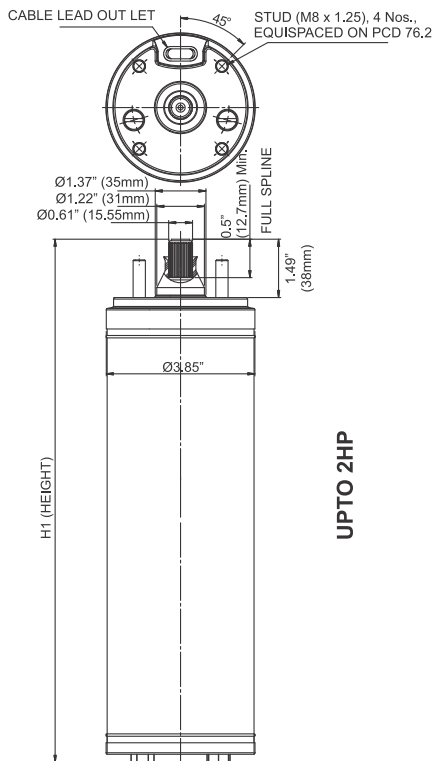
MODEL	HP	SF	RATED		S.F.		Efficiency %			Power Factor%			Locked Rotor Amps	Thrust Load (lbs)	KVA Code
			Amps	W	Amps	W	S.F	F.L.	3/4	S.F	F.L.	3/4			
W4A-05-4E	½	1.6	2.3	664	3.1	928	59	56	51	80	75	70	15	800	N
W4A-07-4E	¾	1.5	3.6	928	4.3	1264	65	63	57	79	75	64	21	800	M
W4A-10-4E	1	1.4	4	1136	5.5	1600	68	66	60	80	75	68	25	800	L
W4A-15-4E	1½	1.3	5.5	1648	7.3	2032	70	69	65	80	77	71	34	800	K
W4A-20-4E	2	1.25	8	2280	9.6	2600	71	69	66	78	75	71	44	800	K
W4A-30-4E	3	1.15	10.4	3120	12	3720	72	72	68	80	78	74	58	1500	I
W4A-50-4E	5	1.15	16.3	4880	19.5	6200	76	75	71	81	79	72	97	1500	I
W4A-75-4E	7½	1.15	22	7280	27.5	8400	76	75	74	83	80	78	137	1500	I



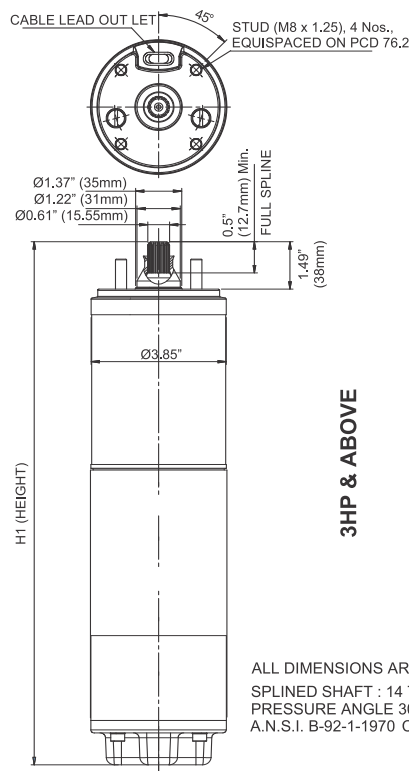
WATER FILLED REWINDABLE SUBMERSIBLE MOTORS

Nominal Diameter : **4"**

"W" Series
(½ to 10 HP)



UPTO 2HP



3HP & ABOVE

ALL DIMENSIONS ARE IN Inches & mm
SPLINED SHAFT : 14 TEETH - MODULE 1.5875
PRESSURE ANGLE 30°
A.N.S.I. B-92-1-1970 COUPLING CLASS 5

460V, THREE PHASE

ELECTRICAL DATA

MODEL	HP	SF	RATED		MAX. S.F.		Efficiency %			Power Factor%			Locked Rotor Amps	Thrust Load (lbs)	KVA Code
			Amps	W	Amps	W	S.F	F.L.	3/4	S.F	F.L	3/4			
W4A-30-4M	3	1.15	5.1	3140	5.6	3530	72	70.7	67	79	77	73	26	1500	H
W4A-50-4M	5	1.15	8.1	4800	8.8	5450	78.1	77.4	74.7	77	75	70	42	1500	H
W4A-75-4M	7½	1.15	10.9	6880	12.2	7910	80.4	80.3	79	81	79	73	60	1500	H
W4A-100-4M	10	1.15	14.8	9240	16.6	10630	81.2	81.3	80	81	79	75	82	1500	H

230 & 460V, THREE PHASE

DIMENSIONS & WEIGHT DATA

Motor Model	HP	Lead Out Cable (Sq.mm)		Cable length in ft	Dimension	Nett Weight
		230 V	460 V		H1 (inch)	(lbs)
W4A-05-4	½	1.5	1.5	4.9	15.9	32
W4A-07-4	¾	1.5	1.5	4.9	17.5	36
W4A-10-4	1	1.5	1.5	4.9	18.7	40
W4A-15-4	1½	2.5	1.5	4.9	21.0	46
W4A-20-4	2	2.5	1.5	4.9	28.1	60
W4A-30-4	3	2.5	1.5	6.5	32.4	71
W4A-40-4	4	2.5	1.5	6.5	34.4	79
W4A-50-4	5	4.0	2.5	8.2	37.4	88
W4A-60-4	6	4.0	2.5	8.2	39.7	96
W4A-75-4	7½	4.0	2.5	9.8	42.3	103
W4A-100-4	10	4.0	2.5	9.8	42.7	105

W4N models on request.

In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

WATER FILLED REWINDABLE SUBMERSIBLE MOTORS

Nominal Diameter : **6"**

"W" Series

Specifications

Nominal Dia	6"
Maximum Outer Diameter	5.7"
Power Range	5 HP to 60 HP
Speed	3450 rpm
Version	Three Phase - 230 V & 460 V, 60 Hz, A.C. Supply
Class of Insulation	Y
Ingress Protection	IP 68
Direction of Rotation	Electrically Reversible
Type of Duty	S1 (Continuous)
Down Thrust Load	5 HP to 25 HP - 3500 lbs 30 HP to 60 HP - 6000 lbs
Minimum Cooling Flow Along the Motor	0.5 ft/sec
Maximum Liquid Temperature	Standard - 86°F, High-temp - 122°F
Maximum Starts per Hour	13 Times (5HP) / 4 Times - (7.5-60HP)
Shaft Type	Splines
Mounting Standard	NEMA
Method of Starting	5 HP to 60 HP - Direct On Line (DOL) 7.5 HP to 60 HP - Star Delta (SD)
Cable Lead out	Permanently Connected and Sealed 4 Core EPDM Flat Cable
Thermal Protection	Optional - PT Sensor



Materials of Construction

Part Name	Type - A (W6A) (5HP to 30HP)	Type - A (W6A) (40HP to 60HP)
Mechanical Seal	Nitrile Butyl Rubber (NBR)	Oil Seal (NBR)
Upper & Lower Housings	Cast Iron	Cast Iron
Stator Shell	SS 304	SS 304
Thrust Pad	Graphite Carbon	Graphite Carbon
Thrust Bearing	SS 420	SS 420
Diaphragm	Nitrile Butyl Rubber (NBR)	Nitrile Butyl Rubber (NBR)
Motor Base	SS 304	SS 304
Upper Housing Shell	SS 304	SS 304
Shaft	SS 431	AISI 1040
Shaft Extension	SS 431	UNS 17400
Shaft Sleeve	NA	SS 431

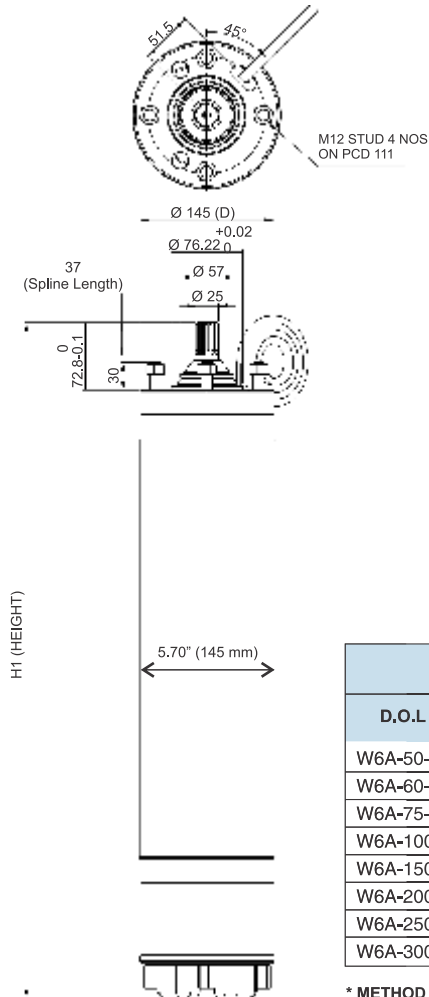


WATER FILLED REWINDABLE SUBMERSIBLE MOTORS

Nominal Diameter : **6"**

"W" Series
(5 to 30 HP)

Flange Construction (A-Type)



All Dimensions are in mm
Splined Shaft : 15 teeth -
Module 1.5875
Pressure Angle 30°
A.N.S.I.B-92-1-1970
Tolerance Class 5

DIMENSIONS AND WEIGHT DATA

Model		Motor Power	Dimension		Nett Weight	Cable leadout		
D.O.L	S.D	HP	D (inches)	H1 (inches)	(lbs)	Cable size (sq. mm)		Cable length in ft
						DOL	SD	
W6A-50-4	W6A-50-6	5½	5.7	28.89	93	2.5	-	9.84
W6A-60-4	W6A-60-6	6	5.7	29.68	97	2.5	-	9.84
W6A-75-4	W6A-75-6	7½	5.7	31.65	110	6	2.5	9.84
W6A-100-4	W6A-100-6	10	5.7	33.62	122	6	2.5	9.84
W6A-150-4	W6A-150-6	15	5.7	36.37	139	10	4	9.84
W6A-200-4	W6A-200-6	20	5.7	39.52	157	10	4	9.84
W6A-250-4	W6A-250-6	25	5.7	42.67	177	16	4	11.48
W6A-300-4	W6A-300-6	30	5.7	45.43	190	16	4	11.48

* METHOD OF STARTING : 4 - 3P / DOL / 60Hz

6 - 3P / SD / 60Hz

* Star Delta (SD) models can be supplied on request.

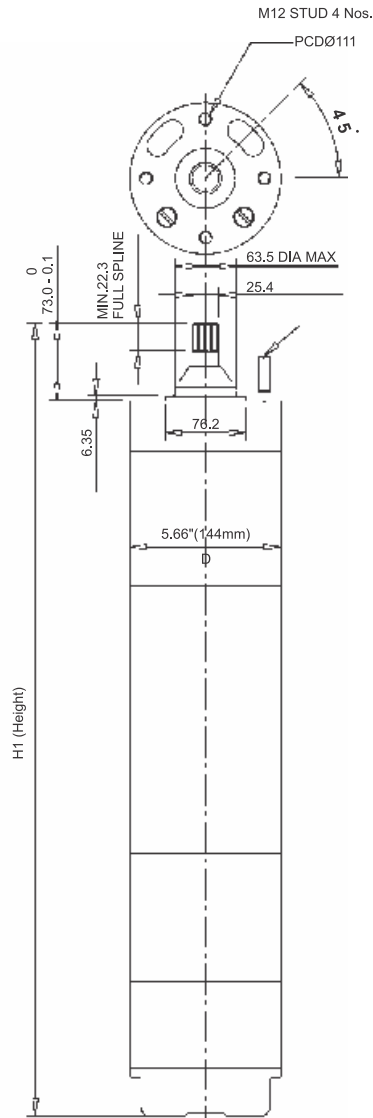
WATER FILLED REWINDABLE SUBMERSIBLE MOTORS

Nominal Diameter : **6"**

"W" Series

(40 to 60 HP)

T-Bolt Construction (A - Type)



All Dimensions are in mm
Splined Shaft : 15 teeth -
Module 1.5875
Pressure Angle 30°
A.N.S.I. B-92-1-1970
Tolerance Class 5

DIMENSIONS AND WEIGHT DATA

Model		Motor Power HP	Dimension		Nett Weight (lbs)	Cable leadouts		
D.O.L	S.D		D (inch)	H1 (inch)		Cable Size (Sq.mm)		Cable Length (ft)
W6A-400-4	W6A-400-6	40	5.66	48.30	227	10.0	6.0	13.9
W6A-500-4	W6A-500-6	50	5.66	51.25	245	16.0	6.0	17.2
W6A-600-4	W6A-600-6	60	5.66	54.21	267	16.0	10	17.2

* **METHOD OF STARTING** : 4 - 3P / DOL / 60Hz 6 - 3P / SD / 60Hz

* Star Delta (SD) models can be supplied on request.



WATER FILLED REWINDABLE SUBMERSIBLE MOTORS

Nominal Diameter : **6"**

"W" Series

(5 to 60 HP)

230V, THREE PHASE

ELECTRICAL DATA

Product Code		MODEL	HP	SF	RATED		S.F.		Efficiency %			Power Factor%			Locked Rotor Amps	Thrust Load (lbs)	KVA Code
Non NSF	NSF				Amps	W	Amps	W	S.F.	F.L.	3/4	S.F.	F.L.	3/4			
45457*	45545*	W6A-50-4EM	5	1.15	16.1	4540	18.5	5480	77.5	76.6	76.5	80.9	78.6	76.1	88	3500	I
45459*	45547*	W6A-75-4EM	7½	1.15	22.5	6850	26	7860	80	80.5	79.6	82.5	81.7	77	130	3500	H
45460*	45548*	W6A-100-4EM	10	1.15	31.5	9280	36	10640	82	81.5	80	82.5	82.5	79	175	3500	H
45462*	45550*	W6A-150-4EM	15	1.15	44.5	13620	50.5	15400	80.5	80.8	80.2	82.5	81.2	80.5	265	3500	H
45464*	45552*	W6A-200-4EM	20	1.15	57	18180	65.5	20940	82	82.5	80	85.3	85.2	82	348	3500	H
45465#	45593*	W6A-250-4EM	25	1.15	72	22680	82.5	26000	82.5	82.2	81.5	87.2	87.5	83	468	3500	I
45466#	45592*	W6A-300-4EM	30	1.15	83	26880	95	30600	82.5	82	82	83.5	84	82	547	3500	I
45149#	45556#	W6A-400-4EM	40	1.15	116	36240	132	41700	82.5	82.8	80	82.3	82	80	750	6000	J

460V, THREE PHASE

ELECTRICAL DATA

Product Code		MODEL	HP	SF	RATED		S.F.		Efficiency %			Power Factor%			Locked Rotor Amps	Thrust Load (lbs)	KVA Code
Non NSF	NSF				Amps	W	Amps	W	S.F.	F.L.	3/4	S.F.	F.L.	3/4			
45469*	45513*	W6A-50-4MM	5	1.15	7.9	4680	8.5	5120	80.5	79	77.5	76	78.5	75.9	38	3500	G
-	45515*	W6A-60-4MM	6	1.15	9	5900	10.5	6720	81	82	80	83	82	78	48	3500	H
45471*	45517*	W6A-75-4MM	7½	1.15	13	7000	14	8050	78	79	78.5	81	80	79.5	60	3500	H
45472*	45523*	W6A-100-4MM	10	1.15	15	9260	16.8	10600	80	81	80	82	78	77	78	3500	G
45474*	45537*	W6A-150-4MM	15	1.15	22	13200	25	15300	82.5	83	82	81.7	80	79	120	3500	G
45476*	45539*	W6A-200-4MM	20	1.15	28	18200	32	20800	82	82.5	82	88	86	85.5	165	3500	G
45477*	45540*	W6A-250-4MM	25	1.15	33	22320	38	25600	82.5	83	82.2	86.8	82.5	82	220	3500	G
45478*	45541*	W6A-300-4MM	30	1.15	38.8	26750	44.5	30750	82.5	83.5	82	86.5	85	82	260	3500	G
45184*	45587*	W6A-400-4M	40	1.15	53.5	35760	64	41160	83.5	84	83.5	83.3	83.8	83	330	6000	H
45185#	45588*	W6A-500-4M	50	1.15	67	44160	78	51500	83	84.5	84	84	83	80	390	6000	H
45186#	45589*	W6A-600-4M	60	1.15	85.5	56400	98	65000	80.5	81	80.5	85	83	79	425	6000	H

The above mentioned electrical datas are applicable for Star-Delta motors also

The above electrical datas are common for flange type and T-bolt construction.

*Marked product codes are supplied with 4 core cable

Marked product codes are supplied with 3 core cable

WATER FILLED REWINDABLE SUBMERSIBLE MOTORS

Nominal Diameter : **7"**

"W" Series

Technical Specifications

Nominal Dia	7"
Maximum Outer Diameter	7.12 "
Power Range	50 HP to 100 HP - Three Phase
Speed	3450 rpm
Power supply	Three Phase - 380 V & 460 V, 60 Hz, A.C Supply
Class of Insulation	Y
Ingress Protection	IP 68
Direction of Rotation	Electrically Reversible - Three Phase
Type of Duty	S1 (Continuous)
Minimum Cooling Flow Along the Motor	0.16 m/sec
Maximum Liquid Temperature	Standard - 86°F, High Temp - 122°F
Max. Starts per Hour	4 Times
Shaft End	Splines
Mounting Standard	NEMA
Method of Starting	Direct On Line (DOL)
	Star Delta (SD)
Cable Lead out	Permanently Connected and Sealed 3/4 Core EPDM Insulated Flat Cable
Thermal Protection	Optional - PT Sensor



Materials of Construction

Part Name	Type - B
Shaft Seal Housing	Cast Iron
Oil Seal / Mechanical Seal	Nitrile Rubber (NBR) / Ceramic Carbon
Upper & Lower Housings	Cast Iron
Stator Shell	SS - 304
Thrust Pad	Carbon Graphite
Thrust Bearing	SS - 420
Diaphragm	High Nitrile Rubber
Motor Base	Cast Iron
Shaft	AISI 1040
Shaft Extension	UNS 17400
Sleeves	SS - 431

* S / T / O MOC types are supplied on request.

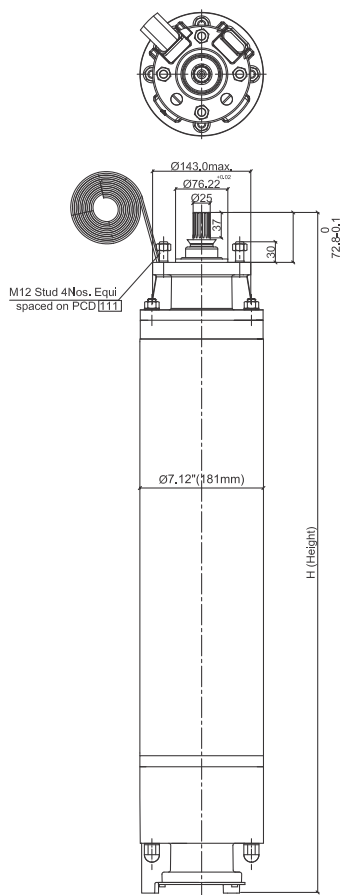


WATER FILLED REWINDABLE SUBMERSIBLE MOTORS

Nominal Diameter : **7"**

"W" Series
(50 to 100 HP)

Technical Data



460V, THREE PHASE

ELECTRICAL DATA

Model	HP	SF	RATED		S.F.		Efficiency %			Power Factor%			Locked Rotor Amps	Thrust Load (lbs)	KVA Code
			Amps	W	Amps	W	S.F.	F.L.	3/4	S.F.	F.L.	3/4			
W7B-500-4M	50	1.15	66	43100	75	49800	86	86	85	83	82	80	450	10000	H
W7B-600-4M	60	1.15	78	52400	88.5	60206	88	87	86	85	85	83	530	10000	H
W7B-750-4M	75	1.15	96	64400	110	74200	86	85	84	85	84	82	720	12500	G
W7B-850-4M	85	1.15	106	72500	122	84000	87	87	85	86	85	83	790	12500	G
W7B-A00-4M	100	1.15	126	85400	145	99200	87	88	86	85	85	83	940	12500	H

DIMENSIONS AND WEIGHT DATA

D.O.L	S.D	Motor Power	*Method of Starting	Dimension (inch)		Nett Weight	Cable leadout size in Sq.mm		
				D	H1		460 V		Cable Length (ft)
		HP	D / D			7.2	H1	(lbs)	
W7B-500-4	W7B-500-6	50	T / D	7.2	46.50	338	16	10	13.1
W7B-600-4	W7B-600-6	60	T / D	7.2	55.55	395	16	10	13.1
W7B-750-4	W7B-750-6	75	T / D	7.2	60.27	439	25	16	16.4
W7B-850-4	W7B-850-6	85	T / D	7.2	62.63	443	25	16	16.4
W7B-A00-4	W7B-A00-6	100	T / D	7.2	64.60	485	35	25	16.4

All motors are supplied with 3 core cable only.

The above mentioned electrical data are applicable for star - Delta motors also.

In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

WATER FILLED REWINDABLE SUBMERSIBLE MOTORS

Nominal Diameter : **8"**

"W" Series

Specifications

Nominal Dia	8"
Maximum Outer Diameter	7.75"
Power Range	50 HP to 150 HP
Speed	3500 rpm
Version	Three Phase - 460V, 60 Hz, A.C Supply
Class of Insulation	Y
Ingress Protection	IP 68
Direction of Rotation	Electrically Reversible
Type of Duty	S1 (Continuous)
Down Thrust Load	50 HP to 60 HP - 10000 lbs
	75 HP to 150 HP - 12500 lbs
Minimum Cooling Flow Along the Motor	0.5 ft/sec
Maximum Liquid Temperature	Standard - 86°F, High-temp - 122°F
Maximum Starts per Hour	4 Times
Shaft End	Splines
Mounting Standard	NEMA
Method of Starting	50 HP to 150 HP - Direct On Line (DOL)
	50 HP to 150 HP - Star Delta (SD)
Cable Lead out	Permanently Connected and Sealed 3/4/6 Core EPDM Flat Cable
Thermal Protection	Optional - PT Sensor



Materials of Construction

Part Name	Type - A
Mechanical Seal	Nitrile Butyl Rubber (NBR)
Upper & Lower Housings	Cast Iron
Stator Shell	SS - 304
Thrust Pad	Graphite Carbon
Thrust Bearing	SS 420
Diaphragm	Nitrile Butyl Rubber (NBR)
Motor Base	Cast Iron
Shaft	AISI 1040
Shaft Extension	SS 410
Shaft Sleeve	SS 431

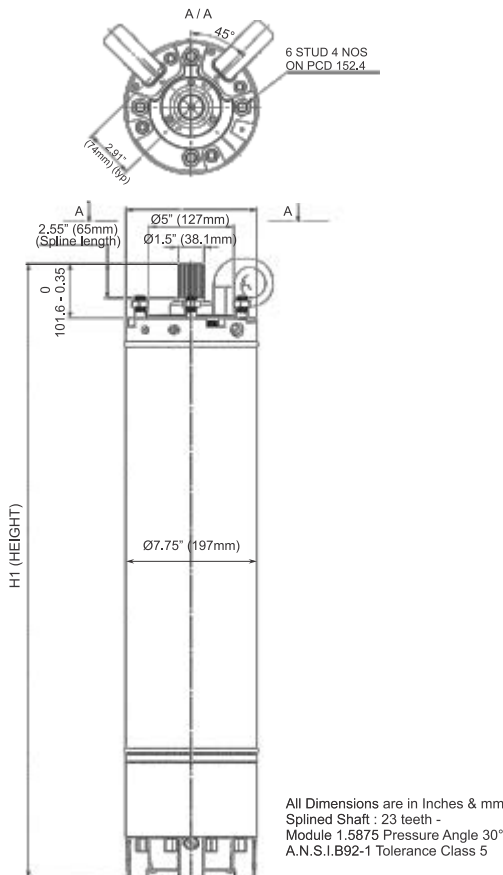
S/T MOC types are supplied on request.



WATER FILLED REWINDABLE SUBMERSIBLE MOTORS

Nominal Diameter : **8"**

"W" Series
(50 to 150 HP)



460V, THREE PHASE

ELECTRICAL DATA

Product Code		MODEL	HP	SF	RATED		S.F.		Efficiency %			Power Factor%			Locked Rotor Amps	Thrust Load (lbs)	KVA Code
Non NSF	NSF				Amps	W	Amps	W	S.F	F.L.	3/4	S.F	F.L	3/4			
46732	46744	W8A-500-4M	50	1.15	66	43100	75	49800	86	86	85	83	82	80	450	10000	H
46731	46745	W8A-600-4M	60	1.15	78	52400	88.5	60200	88	87	86	85	85	83	530	10000	H
46730	46746	W8A-750-4M	75	1.15	96	64400	110	74200	86	85	84	85	84	82	720	12500	G
46734	46748	W8A-A00-4M	100	1.15	126	85400	145	99200	87	88	86	85	85	83	940	12500	H
46735	46750	W8A-A25-4M	125	1.15	155	105600	177	122800	88	88	86	87	86	84	1150	12500	G
-	-	W8A-A50-4M	150	1.15	197	124500	220	143500	88	88	86	85	84	82	1400	12500	H

The above mentioned electrical data are applicable for Star-Delta motor also.

460V, THREE PHASE

DIMENSIONS & WEIGHT DATA

Model		HP	Cable lead out size (Sq.mm)		Cable Length in ft	Height H1	Nett Weight
DOL	SD		460V			(inch)	(lbs)
			DOL	SD			
W8A-500-4M	W8A-500-6M	50	16	10	13.1	46.49	338
W8A-600-4M	W8A-600-6M	60	16	10	13.1	48.46	362
W8A-750-4M	W8A-750-6M	75	25	16	16.4	50.43	395
W8A-A00-4M	W8A-A00-6M	100	35	25	16.4	57.71	473
W8A-A25-4M	W8A-A25-6M	125	35	25	16.4	61.25	516
W8A-A50-4M	W8A-A50-6M	150	35	35	16.4	65.19	565

Non NSF models are start with W8B

In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

WATER FILLED REWINDABLE SUBMERSIBLE MOTORS

Nominal Diameter : **10"**

"W" Series

Specifications

Nominal Dia	10"
Maximum Outer Diameter	9.13"
Power Range	150 HP to 250 HP
Speed	3500 rpm
Powe supply	Three Phase - 460 V, 60 Hz, A.C Supply
Class of Insulation	Y
Ingress Protection	IP 68
Direction of Rotation	Electrically Reversible - Three Phase
Type of Duty	S1 (Continuous)
Down Thrust Load	150 HP to 250 HP - 16860 lbs
Minimum Cooling Flow Along the Motor	0.5 ft/sec
Maximum Liquid Temperature	Standard - 86°F, Hi-temp - 122°F
Maximum Starts per Hour	4 Times
Shaft End	Splines / Keyway
Mounting Standard	NEMA
Method of Starting	Three Phase - Direct On Line (DOL), Star Delta (SD)
Cable Lead out	Permanently Connected and Sealed 6 Core EPDM Insulated Flat Cable for SD & 2 +2 core individual cable for DOL
Thermal Protection	Optional - PT Sensor



Type - B

Materials of Construction

Part Name	Type - B
Shaft Seal Housing	Cast Iron
Mechanical Seal	Nitrile Rubber (NBR) / Ceramic - Carbon, SiC - SiC
Upper & Lower Housings	Cast Iron
Stator Shell	SS - 304
Thrust Pad	Carbon Graphite
Thrust Bearing	SS - 420
Diaphragm	Nitrile Rubber (NBR)
Motor Base	Cast Iron
Shaft	AISI 1040
Shaft extension	SS 410
Sleeve	SS 431

* S/T MOC types are supplied on request.

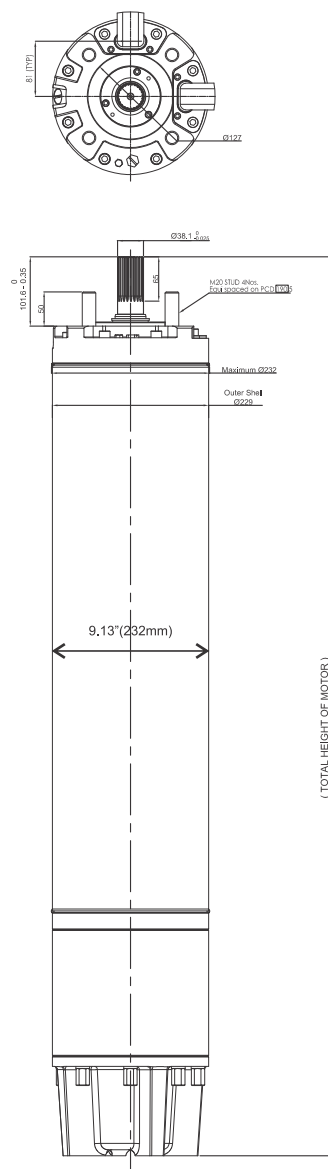
WATER FILLED REWINDABLE SUBMERSIBLE MOTORS

Nominal Diameter : **10"**

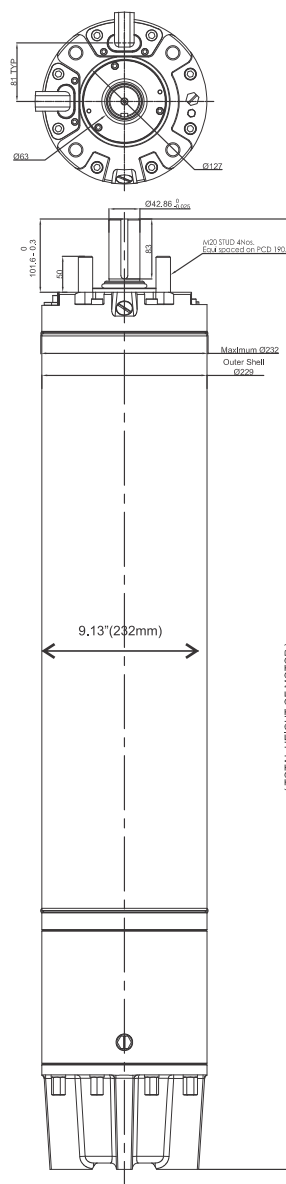
"W" Series
(150 to 250 HP)

Technical Data

SPLINES TYPE



KEYWAY TYPE



WATER FILLED REWINDABLE SUBMERSIBLE MOTORS

Nominal Diameter : **10"**

"W" Series

DIMENSIONS & WEIGHT DATA

Motor Models	Motor Models	Motor Power	Lead Out Cable Size (Sq.mm)		Cable length in ft	Height H1	Nett Weight
		HP	DOL	SD		(inch)	(lbs)
W10B-A50-4	W10B-A50-6	150	70	35	16.4	64.21	691
W10B-A75-4	W10B-A75-6	175	70	35	16.4	68.54	752
W10B-B00-4	W10B-B00-6	200	70	35	16.4	71.29	803
W10B-B25-4	W10B-B25-6	225	70	35	16.4	74.44	900
W10B-B50-4	W10B-B50-6	250	70	35	16.4	77.99	968

460V DOL & SD MOTORS - THREE PHASE

ELECTRICAL DATA

Product code Non NSF		Model	Motor Power	Method of Starting	Full Load Current (A)	Starting Current (A)	Efficiency (%)	Power Factor	Max. Down Thrust Load (lbs)	KVA Code
Splines Type SD	Keyway Type SD		HP							
47248	-	W10B-A50-6M	150	S / D	190	787	87	0.89	16860	E
47259	-	W10B-A75-6M	175	S / D	220	961	87	0.89	16860	E
47249	47237	W10B-B00-6M	200	S / D	250	1064	88	0.89	16860	E
47250	-	W10B-B25-6M	225	S / D	281	1208	88	0.89	16860	E
-	47239	W10B-B50-6M	250	S / D	315	1368	88	0.89	16860	E

METHOD OF STARTING : 4 - 3P / DOL / 60Hz 6 - 3P / SD / 60Hz

CABLE SELECTION TABLE (5% Voltage drop)

VOLT	Motor Rating	1Ph, 2/3 WIRE MOTORS, MAXIMUM LENGTH OF COPPER CABLE IN FEET												
		CABLE SIZE IN AMERICAN WIRE GAGE												
HP		14	12	10	8	6	4	3	2	1	1/0	2/0	3/0	4/0
110V	0.5	Calculate Cable Length (FEET)	95	151	239	381	604	963	1213	1529	1928	2429	3065	4873
	0.75		75	119	190	302	479	764	962	1213	1529	1926	2431	3065
	1		68	108	172	274	434	692	872	1099	1386	1746	2203	2778
	1.5		54	87	138	219	347	554	697	879	1108	1397	1762	2222
230V	0.5	Calculate Cable Length (FEET)	345	550	1390	2203	3515	4427	5584	7038	8868			
	0.75		262	417	1055	1672	2668	3360	4238	5342	6731	8493		
	1		203	324	819	1297	2069	2607	3288	4144	5221	6588		
	1.5		177	282	712	1129	1800	2268	2860	3605	4542	5731		
	2		165	262	664	1052	1677	2113	2665	3359	4232	5340		
	3		122	195	492	780	1244	1567	1976	2491	3139	3960		
	5				313	496	791	996	1256	1583	1995	2518		

VOLT	Motor Rating	THREE PHASE 3 WIRE (D.O.L.) MOTOR MAXIMUM LENGTH OF COPPER CABLE - SINGLE CABLE PER PHASE												
		CABLE SIZE IN AMERICAN WIRE GAUGE												
HP		14	12	10	8	6	4	3	2	1	1/0	2/0	3/0	4/0
230V	0.5	Calculate Cable Length (FEET)	842	1341	2130	3391	5373							
	0.8		607	967	1535	2445	3874	6179						
	1.0		475	756	1200	1911	3029	4831	6085					
	1.5		358	569	904	1440	2282	3640	4585	5782				
	2.0		272	433	688	1095	1735	2768	3486	4397	5542			
	3.0		218	346	550	876	1388	2214	2789	3518	4434	5587	7049	
	4.0		155	247	393	626	992	1582	1992	2513	3167	3991	5035	
	5.0		112	178	282	449	712	1135	1430	1804	2274	2865	3615	4559
	6.0		95	151	239	381	604	963	1213	1529	1928	2429	3065	3865
	7.5			126	200	319	505	805	1014	1279	1612	2032	2563	3233
	10.0			99	157	250	397	633	797	1005	1267	1596	2014	2540
	12.5				134	214	339	540	680	858	1081	1363	1719	2168
	15.0				112	179	283	452	569	718	905	1140	1439	1814
	17.5				97	154	244	388	489	617	778	980	1237	1560
	20.0					136	216	344	433	546	688	868	1095	1380
	25.0					112	178	283	357	450	567	714	901	1137
	30.0						151	241	303	382	482	607	766	966
	35.0						108	172	217	274	345	435	549	692
	40.0							147	185	233	293	370	466	588
	50.0							130	164	206	260	328	414	522

VOLT	Motor Rating	THREE PHASE 3 WIRE (S.D) MOTOR MAXIMUM LENGTH OF COPPER CABLE												
		CABLE SIZE IN AMERICAN WIRE GAUGE												
HP		14	12	10	8	6	4	3	2	1	1/0	2/0	3/0	4/0
230V	0.5	Calculate Cable Length (FEET)	1769	2816	4472	7121	11284							
	0.8		1275	2030	3224	5134	8135	12976						
	1.0		997	1587	2521	4014	6360	10145	12779					
	1.5		751	1196	1899	3024	4792	7643	9628	12143				
	2.0		571	909	1444	2299	3644	5812	7321	9234	11639			
	3.0		457	727	1155	1840	2915	4650	5857	7387	9311	11732	14803	
	4.0		326	520	825	1314	2082	3321	4184	5276	6651	8380	10574	
	5.0		234	373	592	943	1495	2384	3004	3788	4775	6017	7591	9573
	6.0		199	316	502	800	1267	2022	2547	3212	4048	5101	6436	8116
	7.5			264	420	669	1060	1691	2130	2686	3386	4266	5383	6788
	10.0			208	330	526	833	1329	1673	2111	2660	3352	4229	5334
	12.5				282	449	711	1134	1429	1802	2271	2862	3610	4553
	15.0				236	375	595	949	1195	1508	1900	2394	3021	3810
	17.5				203	323	511	816	1028	1296	1633	2058	2597	3275
	20.0					286	453	722	909	1147	1446	1822	2299	2899
	25.0					235	373	595	749	945	1191	1500	1893	2387
	30.0						317	505	637	803	1012	1275	1609	2029
	35.0						227	362	456	575	725	914	1153	1454
	40.0							308	388	489	616	776	979	1235
	50.0							273	344	433	546	688	868	1095

In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

CABLE SELECTION TABLE (5% Voltage drop)

THREE PHASE 3 WIRE (D.O.L.) MOTOR MAXIMUM LENGTH OF COPPER CABLE - SINGLE CABLE PER PHASE																			
VOLT	Motor Rating	CABLE SIZE IN AMERICAN WIRE GAGE													MCM Copper wire size				
	HP	14	12	10	8	6	4	3	2	1	1/0	2/0	3/0	4/0	250	300	350	400	500
380V	0.5	2374	3779	6002	9556	15143													
	0.8	1879	2991	4751	7565	11988													
	1.0	1253	1994	3168	5044	7992													
	1.5	940	1496	2376	3783	5994													
	2.0	778	1238	1966	3131	4961													
	3.0	626	997	1584	2522	3996													
	4.0	475	756	1200	1911	3029													
	5.0		544	864	1376	2180													
	6.0		460	731	1164	1844	2942												
	7.5		374	594	946	1499	2390												
	10.0		288	457	727	1153	1839												
	12.5		239	380	605	959	1530												
	15.0			322	513	813	1296	1633											
	17.5			291	463	733	1170	1587											
	20.0				362	573	954	1301	1894										
	25.0				321	509	812	983	1240	1563									
	30.0					426	680	922	1163	1466	1848								
	35.0						603	818	1031	1300	1638								
	40.0						503	634	799	887	1117	1410	1778						
	50.0						403	507	640	806	894	1128	1293	1630					
	60.0							477	602	618	779	983	1183	1421					
	75.0								558	552	696	798	1007	1270					
	85.0								516	511	643	738	931	1173					
	100.0									438	551	696	877	974	886				
	125.0										442	558	704	887	807	1145			
	150.0											534	673	849	748	1061			
	175.0													660	661	937	994		
	200.0														500	709	745		
	225.0															647	754	798	1078
	250.0															492	574	607	820
	300.0																552	584	788
	350.0																	507	685
	400.0																	434	586

THREE PHASE 3 WIRE (S.D) MOTOR MAXIMUM LENGTH OF COPPER CABLE																			
VOLT	Motor Rating	CABLE SIZE IN AMERICAN WIRE GAGE													MCM Copper wire size				
	HP	14	12	10	8	6	4	3	2	1	1/0	2/0	3/0	4/0	250	300	350	400	500
380V	0.5	4985	7935	12604	20068	31800													
	0.8	3946	6282	9978	15887	25175													
	1.0	2631	4188	6652	10592	16784													
	1.5	1973	3141	4989	7944	12588													
	2.0	1633	2599	4129	6574	10417													
	3.0	1315	2094	3326	5296	8392													
	4.0	997	1587	2521	4014	6360													
	5.0		1142	1814	2889	4577													
	6.0		966	1535	2444	3873	6178												
	7.5		785	1247	1986	3147	5020												
	10.0		604	959	1528	2421	3861												
	12.5		503	798	1271	2014	3213												
	15.0			676	1077	1707	2723	3429											
	17.5			610	972	1540	2457	3333											
	20.0				759	1203	2003	2733	3977										
	25.0				674	1069	1705	2065	2604	3282									
	30.0					895	1428	1937	2443	3079	3880								
	35.0						1266	1717	2165	2729	3439								
	40.0						1057	1331	1679	1862	2346	2961	3734						
	50.0						845	1065	1343	1693	1877	2368	2715	3424					
	60.0							1002	1264	1298	1636	2064	2485	2984					
	75.0								1171	1160	1462	1677	2114	2666					
	85.0								1083	1072	1351	1550	1954	2464					
	100.0									919	1158	1461	1843	2044	1860				
	125.0										929	1172	1478	1863	1695	2405			
	150.0											1121	1414	1783	1570	2228			
	175.0													1387	1388	1969	2088		
	200.0														1050	1489	1564		
	225.0															1358	1584	1677	2264
	250.0															1033	1205	1275	1722
	300.0																1158	1226	1655
	350.0																	1066	1439
	400.0																	912	1231

CABLE SELECTION TABLE ((5% Voltage drop)

	3Ph, 460V, 3 WIRE (DOL) MOTORS, MAXIMUM LENGTH OF COPPER CABLE IN FEET																		
	Motor Rating	CABLE SIZE IN AMERICAN WIRE GAGE													MCM Copper wire size				
VOLT	HP	14	12	10	8	6	4	3	2	1	1/0	2/0	3/0	4/0	250	300	350	400	500
460V	0.5	3770	6020	9460															
	0.75	2730	4350	6850															
	1	2300	3670	5770	9070														
	1.5	1700	3710	4270	6730														
	2	1300	2070	3270	5150	8050													
	3	1000	1600	2520	3970	6200													
	4	748	1190	1891	3011	4771													
	5	590	950	1500	2360	3700	5750												
	5.5	557	887	1409	2243	3554	5669												
	6	510	812	1290	2054	3255	4933												
	7.5	420	680	1070	1690	2640	4100	5100	6260	7180									
	10	310	500	790	1250	1960	3050	3800	4680	5750	7050								
	12.5		410	651	1036	1642	2619	3299	4086	4963	6136	7593							
	15		340	540	850	1340	2090	2600	3200	3930	4810	5900	7110						
	20			410	650	1030	1610	2000	2470	3040	3730	4580	5530						
	25				530	830	1300	1620	1990	2450	3010	3700	4470	5430					
	30				430	680	1070	1330	1640	2030	2490	3060	3700	4500	5128	5850			
	35					580	926	1145	1418	1753	2124	2680	3177	3835	4264	4960			
	40					500	790	980	1210	1490	1830	2250	2710	3192	3720	4242			
	50						640	800	980	1210	1480	1810	2190	2650	2998	3409	3830	4171	4842
	60						540	670	830	1020	1250	1540	1850	2240	2532	2881	3230	3529	4188
	75								680	840	1030	1260	1520	1850	2088	2390	2688	2940	3428
	85									745	919	1136	1371	1652	1884	2127	2291	2491	2909
	100									620	760	940	1130	1380	1550	1782	2000	2182	2540
	110											696	877	1048	1107	1364	1447	1531	1860
	125											740	890	1000	1209	1381	1549	1691	1949
	150												760	920	1040	1182	1330	1452	1680
	175													810	921	1052	1181	1292	1501
	200														802	910	1018	1122	1300
	225															764	886	984	1132
	250																755	886	984
	300																623	755	837
	350																492	623	689
	400																361	492	525
	450																327	346	467
	500																289	306	413
	550																264	279	377
	600																235	249	336

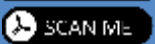
	3Ph, 460V, 3 WIRE (S/D) MOTORS, MAXIMUM LENGTH OF COPPER CABLE IN FEET																			
	Motor Rating	CABLE SIZE IN AMERICAN WIRE GAGE													MCM Copper wire size					
VOLT	HP	14	12	10	8	6	4	3	2	1	1/0	2/0	3/0	4/0	250	300	350	400	500	
460V	0.5	880	1420	2250	3450	5550	8620													
	0.75	743	1182	1878	2990	4739	7559													
	1	681	1083	1720	2739	4340	6923													
	1.5	630	1020	1600	2530	3960	6150	7650	9390											
	2	460	750	1180	1870	2940	4570	5700	7020	8620										
	3	368	585	930	1480	2345	3741	4713	5943	7491										
	4	310	510	810	1270	2010	3130	3900	4800	5800	7210	8850								
	5	230	380	610	970	1540	2410	3000	3700	4560	5590	6870	8290							
	5.5	190	310	490	790	1240	1950	2430	2980	3670	4510	5550	6700							
	6		250	410	640	1020	1600	1990	2460	3040	3730	4590	5550							
	7.5			335	533	844	1347	1697	2140	2697	3398	4288	5002							
	10			300	480	750	1180	1470	1810	2230	2740	3370	4080							
	12.5				370	590	960	1200	1470	1810	2220	2710	3280							
	15				320	500	810	1000	1240	1530	1870	2310	2770							
	20					420	660	810	1020	1260	1540	1890	2280							
	25						577	727	916	1155	1341	1691	2133	8140						
	30						500	610	760	930	1140	1410	1690	6750	7690	8730				
	35							507	640	806	1016	1282	1478	5965	6822	7259				
	40							470	590	730	880	1110	1330	4930	5590	6370				
	50								510	630	770	950	1140	3970	4510	5130	5740	6270	7270	
	60									550	680	830	1000	3360	3810	4330	4860	5310	6510	
	75										590	730	880	2770	3150	3600	4050	4420	5160	
	85											623	755	2459	2691	3272	3563	3771	4909	
	100												591	2070	2340	2680	3010	3280	3820	
	110													1863	2039	2480	2893	3061	3307	
	125													1500	1830	2080	2340	2550	2940	
	150													1380	1570	1790	2000	2180	2530	
	175													1220	1390	1580	1780	1950	2270	
	200													1070	1210	1380	1550	1690	1970	
	225													919	1050	1247	1411	1558	1837	
	250													820	951	1116	1280	1427	1706	
	300													722	853	984	1116	1296	1575	
	350													623	722	853	951	1148	1444	
	400														623	722	787	1017	1312	
	450															411	584	681	721	973
	500															364	517	603	638	861
	550															332	471	550	582	785
	600															296	420	489	518	699

In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

W I N N I N G W A Y S

When you have a good thing going it is quite in the fitting of things that recognitions come our way. Several prestigious awards, which decorate our shelf, say it all. These rewards not only acknowledge our position as a leader in the water pump industry but also serve as reminders about what the customer expects from a winner. And we, as ever, have our ears perfectly tuned to customer expectations.





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