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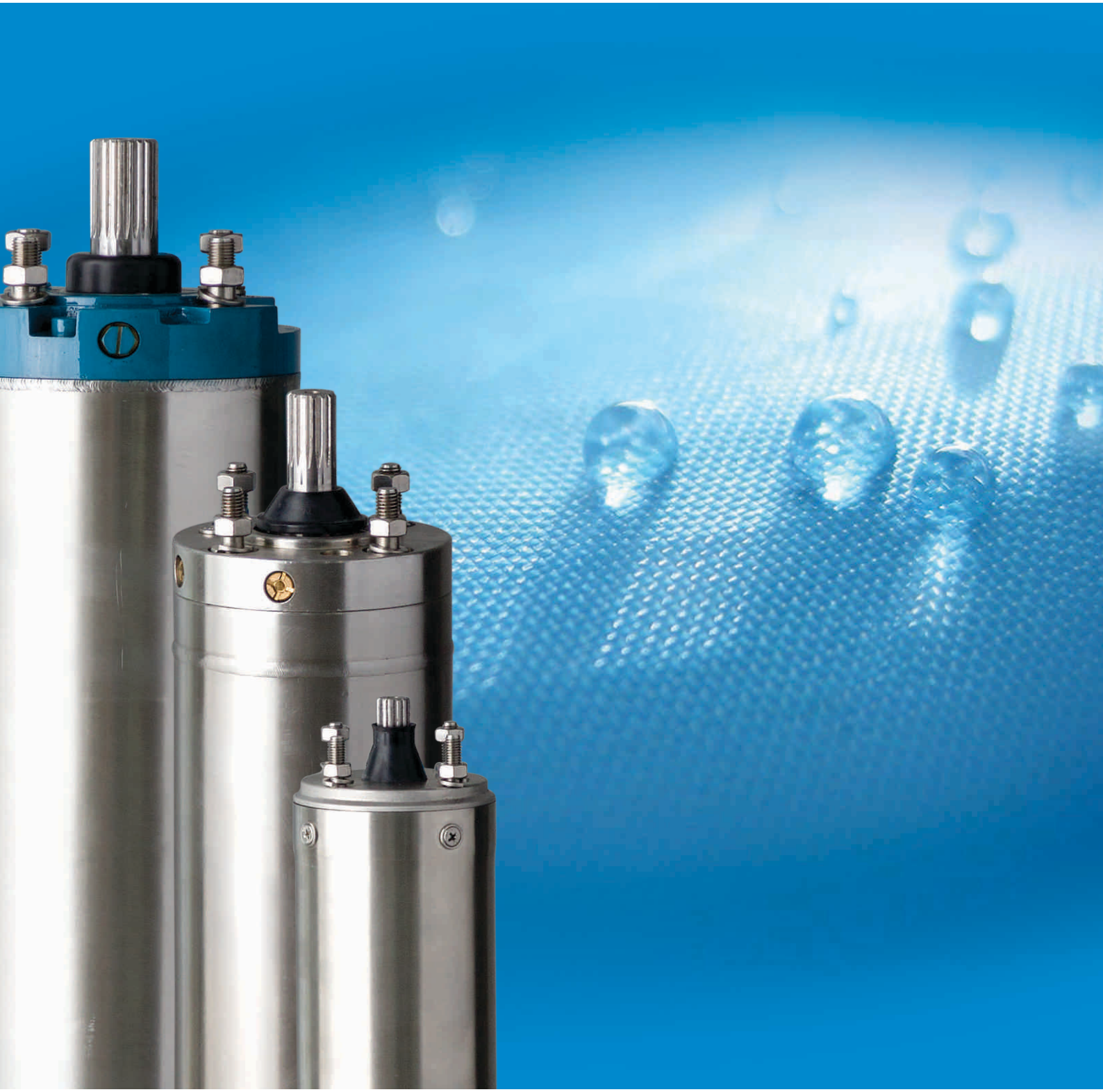

Submersible Motors - **60Hz**

NSF | CE | An ISO 9001 Company

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MODEL IDENTIFICATION CODE

★ K ★ - ★ ★★★ - ★★ ★

Voltage
A = 110, D = 220, E = 230, F = 240, J = 380,
K = 400, L = 415, M = 440, N = 460 , P = 575

Phase / Connection **Frequency**
S - 1Ph / CSR / CSCR - 3 Wire, **6** - 60Hz
T - 3Ph / DOL, **6** - 60Hz
D - 3Ph / SD, **6** - 60Hz

Motor Power (kW)
03=0.37, 05=0.55, 11=1.1,75=7.5,110=11,
185=18.5, 750=75.....1850=185

Type of Motor
W=Water Filled, **L** = Oil Filled

Material of Construction
A=SS304, **B**=SS304 (without housing shell) **N** = SS316

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Pump Nominal Diameter (inches)
(4", 6", 8" & 10")

SHAFT LIFT CONDITION

Position	4"	6"	8"	10"
Maximum	1.55	2.93	4.05	4.05
Minimum	1.54	2.91	4.40	4.40

SHAFT REST CONDITION

Position	4"	6"	8"	10"
Maximum	1.508	2.875	4.0	4.0
Minimum	1.498	2.860	3.99	3.99

All dimensions are in inches

Water Filled Submersible Motors

DESCRIPTION

Genvik Water Filled submersible motors are wet type, eco friendly and rewindable. These motors are innovatively designed and manufactured by employing latest engineering softwares and tools with the complement of state of art technology for heavy duty and maintenance free operations.

The unique design of the motor provides better performance and gives the most optimized efficiency to ensure trouble free operation. The stator shell and motor base made of SS 304 / 316 grade stainless steel which prevents the motor from corrosion. Dynamically balanced rotors maintains uniform clearance thereby giving better efficiency and increases the lifecycle of the bush bearings. To withstand high axial thrust load and upthrust load specially designed high performance thrust bearings are used. The main advantage of the Genvik rewindable motor construction is making the repair and rewinding easier at any fields.

Sealing are made by means of 'O'rings to avoid leakage. To prevent the sand and fibre particles into the motor sandguard and shaft seals are used. Ensure that the motor does not run when it is not submerged in the water. To balance the pressure variations inside the motors rubber diaphragm is installed. Genvik motors are produced in accordance with ISO 9001 standards and mounting dimensions with NEMA Standard.

FEATURES	APPLICATIONS
Easy installation and maintenance	These submersible motors are appropriate to couple with deep well submersible pumps.
Water cooled rewindable motors	
High mechanical stability	
Protection against upthrust load	
Minimal power consumption	

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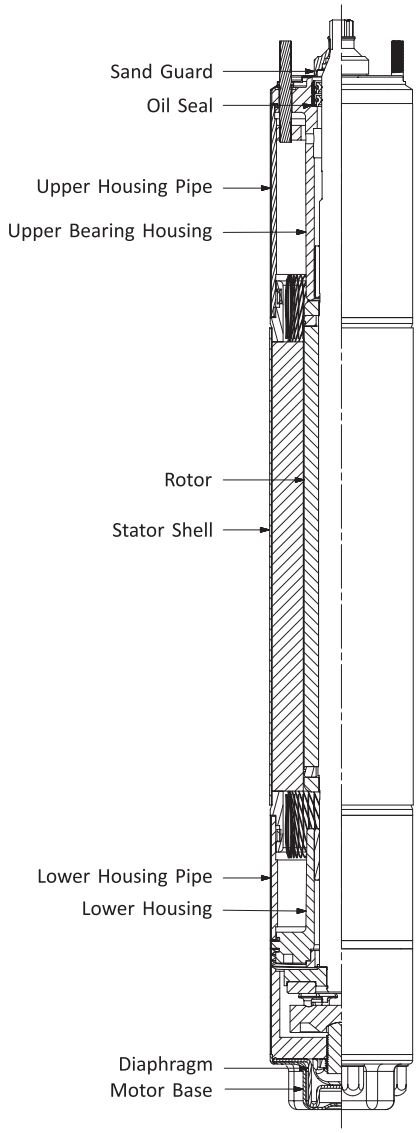
4" Cross Sectional Drawing



SPECIFICATIONS

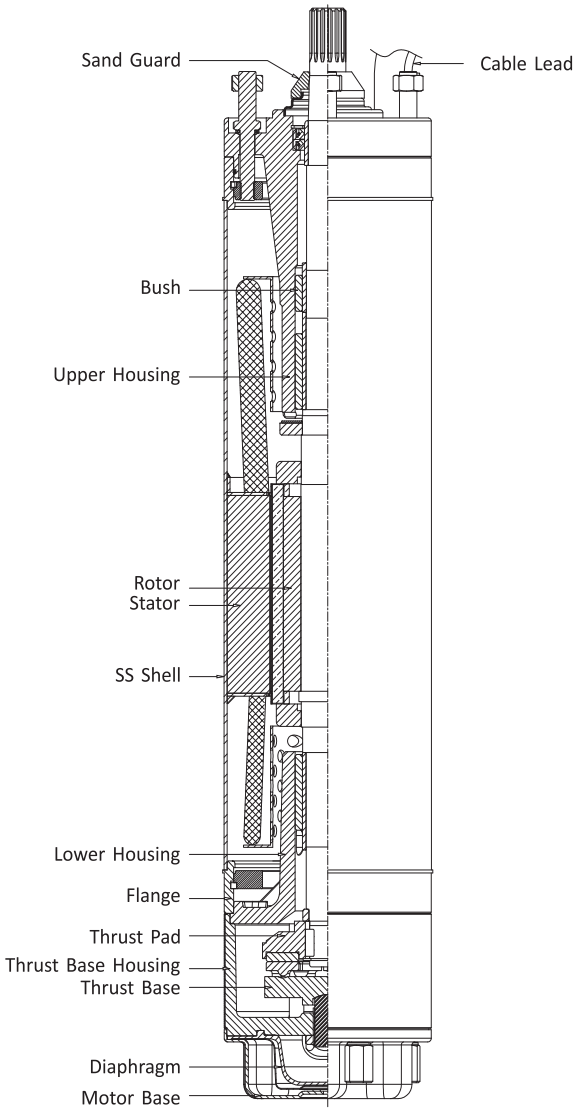
Power Range	Three Phase 0.37-7.5kW - 220/380V, A.C Supply
Max. Outer Diameter	98mm
Speed	3450 rpm
Voltage Tolerance	-15% +6%
Type of Duty	S1 (Continuous)
Degree of Protection	IP 58
Max. Liquid Temperature	33°C Max.
Min. Cooling Flow	0.15 m/s
Starts per Hour	20 Times
Rotation	CW, CCW - Three Phase
Down Thrust Load	0.37-1.5kW - 3500N / 800lbs
	2.2-7.5kW - 6500N / 1500lbs
Class of Insulation	Y
Method of Starting	Direct Online (DOL) - Three Phase
Mounting Standard	NEMA Standard
Cable Lead Out Type	3 Core / 4 Core Rubber Insulated Flat Cable

MATERIALS OF CONSTRUCTION

Part Name	Type - KA	Type - KN
Seal Housing	Cast Iron with S.S.304 Shell	Cast Iron with S.S.316 Shell
Upper & Lower Support Shell	S.S 304	S.S 316
Shaft Seal	NBR	NBR
Wound Stator Shell	S.S 304	S.S 316
Spline Shaft	417-4Ph	417-4Ph
Rotor Shaft	EN-8/EN-9	EN-8/EN-9
Radial Bearings	Graphite Carbon	Graphite Carbon
Thrust Segment Carrier/Segments	SG Iron / S.S 420	SG Iron / S.S 420
Thrust Disc	Graphite Carbon	Graphite Carbon
Pressure Equalizing Diaphragm	HNBR	HNBR
Diaphragm Cover	S.S 304	S.S 316

The Given details / drawings / specifications are subject to change without prior notice.

6" Cross Sectional Drawing



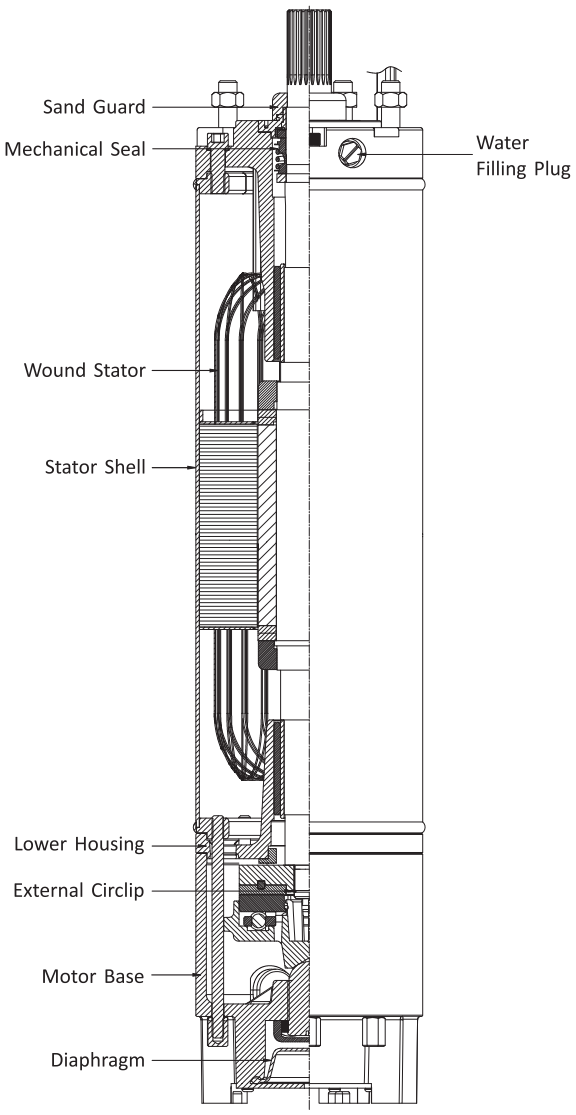
SPECIFICATIONS

Power Range	Single Phase 2.2-3.7kW - 230V, A.C Supply
	Three Phase 2.2-37kW - 220, 230, 380, 440, 460 & 575V, A.C Supply
Max. Outer Diameter	143mm
Speed	3450 rpm
Voltage Tolerance	-15% +6%
Type of Duty	S1 (Continuous)
Degree of Protection	IP 58
Max. Liquid Temperature	33°C Max.
Min. Cooling Flow	0.15 m/s
Starts per Hour	20 Times
Rotation	CW, CCW - Three Phase
Down Thrust Load	2.2-22kW - 15500N / 3000lbs
	26-37kW - 27500N / 6000lbs
Class of Insulation	Y
Method of Starting	2.2-37kW, Direct Online (DOL)
	5.5-37kW, Star Delta (SD)
Mounting Standard	NEMA Standard
Cable Lead Out Type	3 Core / 4 Core Rubber Insulated Flat Cable
Thermal Protection	High Temperature Motors for 70°C / 90°C can be supplied with PT sensor & XLPE / PA Winding

MATERIALS OF CONSTRUCTION

Part Name	Type - KA	Type - KB	Type - KN
Seal Housing	S.S 304	Cast Iron	S.S 316
Upper & Lower Support Shell	S.S 304	S.S 304	S.S 316
Shaft Seal	NBR	NBR	NBR
Wound Stator Shell	S.S. 304	S.S 304	S.S 316
Spline Shaft	S.S.17-4 Ph	S.S 417-17Ph	S.S 417-17Ph
Rotor Shaft	EN-8/EN-9	EN-8/EN-9	EN-8/EN-9
Radial Bearings	Graphite Carbon	Graphite Carbon	Graphite Carbon
Thrust Segment Carrier/Segments	SG Iron/S.S. 420	SG Iron/S.S 420	SG Iron/S.S 420
Thrust Disc	Graphite Carbon	Graphite Carbon	Graphite Carbon
Pressure Equalizing Diaphragm	EPDM	EPDM	EPDM
Diaphragm Cover	S.S. 304	S.S 304	S.S 316

8" Cross Sectional Drawing



SPECIFICATIONS

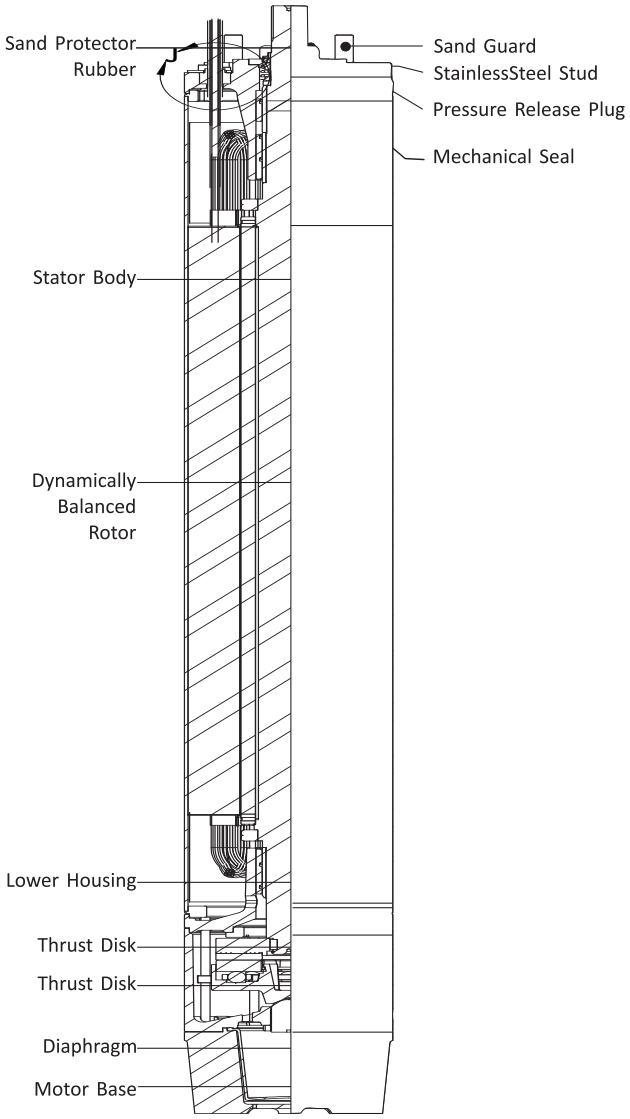
Power Range	Three Phase 15-75kW - 380/460V, A.C Supply
Max. Outer Diameter	Upto 45kW - 187mm 55 & 75kW - 194mm
Speed	3450 rpm
Voltage Tolerance	-15% +6%
Type of Duty	S1 (Continuous)
Degree of Protection	IP 58
Max. Liquid Temperature	33°C Max.
Min. Cooling Flow	0.16 m/s
Starts per Hour	10 Times
Rotation	CW, CCW - Three Phase
Down Thrust Load	18.5kW - 27500N / 6000lbs
	22-45kW - 45500N / 10000lbs
	55-75kW - 55600N / 12500lbs
Class of Insulation	Y
Method of Starting	15-75kW, Direct Online (DOL) & Star Delta (SD)
Mounting Standard	NEMA Standard
Cable Lead Out Type	3 Core / 4 Core Rubber Insulated Flat Cable
Thermal Protection	High Temperature Motors for 70°C / 90°C can be supplied with PT sensor & XLPE / PA Winding

MATERIALS OF CONSTRUCTION

Part Name	Type - KB
Seal Housing	Cast Iron
Upper & Lower Support Shell	Cast Iron
Shaft Seal	NBR
Wound Stator Shell	S.S 304
Spline Shaft	S.S 417-17Ph
Rotor Shaft	EN-8/EN-9
Radial Bearings	Graphite Carbon
Thrust Segment Carrier/Segments	SG Iron/S.S 420
Thrust Disc	Graphite Carbon
Pressure Equalizing Diaphragm	NBR
Diaphragm Cover	S.S 304

The Given details / drawings / specifications are subject to change without prior notice.

10" Cross Sectional Drawing



SPECIFICATIONS

Power Range	Three Phase 81-185kW, 380/440/460V, A.C Supply
Max. Outer Diameter	231mm
Speed	3450 rpm
Voltage Tolerance	-15% +6%
Type of Duty	S1 (Continuous)
Degree of Protection	IP 68
Max. Liquid Temperature	33°C Max.
Min. Cooling Flow	0.16 m/s
Starts per Hour	10 Times
Rotation	CW, CCW - Three Phase
Down Thrust Load	81-185kW - 75000N / 16485lbs
Class of Insulation	Y
Method of Starting	81-185kW, Direct Online (DOL) & Star Delta (SD)
Mounting Standard	NEMA Standard
Cable Lead Out Type	3 Core / 4 Core Rubber Insulated Flat Cable
Thermal Protection	High Temperature Motors for 70°C / 90°C can be supplied with PT sensor & XLPE / PA Winding

MATERIALS OF CONSTRUCTION

Part Name	Type - KB
Seal Housing	Cast Iron
Upper & Lower Support Shell	Cast Iron
Shaft Seal	NBR
Wound Stator Shell	S.S 304
Spline Shaft	S.S 417-17Ph
Rotor Shaft	EN-8/EN-9
Radial Bearings	Graphite Carbon
Thrust Segment Carrier/Segments	SG Iron/S.S 420
Thrust Disc	Graphite Carbon
Pressure Equalizing Diaphragm	NBR
Diaphragm Cover	S.S 304

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4" Submersible Motor

TECHNICAL DATA

Three Phase - 220V (KA / KN Series)

Motor Type	kW	SF	Rated		Max.SF		Efficiency%			Power Factor%			Locked rotor Amps	Thrust Capacity (lbs)
3 Wire			Amps	W	Amps	W	SF	FL	3/4	SF	FL	3/4		
4KA-W03-T6D	0.37	1.6	2.3	664	3.1	928	60	56	51	80	75	70	15	650
4KA-W05-T6D	0.55	1.5	3.6	928	4.3	1264	65	63	57	79	75	64	21	650
4KA-W07-T6D	0.75	1.4	4	1136	5.5	1600	68	66	60	80	75	68	25	650
4KA-W11-T6D	1.1	1.3	5.5	1648	7.3	2032	70	69	65	80	77	71	34	650
4KA-W15-T6D	1.5	1.25	8	2280	9.6	2600	71	69	66	78	75	71	44	900
4KA-W22-T6D	2.2	1.15	10.4	3120	12	3720	72	72	68	80	78	74	58	900
4KA-W30-T6D	3.0	1.15	15	4160	16.8	4720	71	73	70	79	73	70	75	900
4KA-W37-T6D	3.7	1.15	16.3	4880	19.5	6200	76	75	71	81	79	72	97	1500
4KA-W40-T6D	4.0	1.15	19.4	6040	23	6820	76	75	73	82	80	70	115	1500
4KA-W55-T6D	5.5	1.15	22	7280	27.5	8400	76	75	74	83	80	78	137	1500

Three Phase - 230V (KA / KN Series)

Motor Type	kW	SF	Rated		Max.SF		Efficiency%			Power Factor%			Locked rotor Amps	Thrust Capacity (lbs)
3 Wire			Amps	W	Amps	W	SF	FL	3/4	SF	FL	3/4		
4KA-W03-T6E	0.37	1.6	2.2	664	3	928	60	56	51	80	75	70	15	650
4KA-W05-T6E	0.55	1.5	3.4	928	4.1	1264	65	63	57	79	75	64	21	650
4KA-W07-T6E	0.75	1.4	3.8	1136	5.3	1600	68	66	60	80	75	68	25	650
4KA-W11-T6E	1.1	1.3	5.3	1648	7	2032	70	69	65	80	77	71	34	650
4KA-W15-T6E	1.5	1.25	7.7	2280	9.2	2600	71	69	66	78	75	71	44	900
4KA-W22-T6E	2.2	1.15	9.9	3120	11.5	3720	72	72	68	80	78	74	58	900
4KA-W30-T6E	3.0	1.15	14.3	4160	16.1	4720	71	73	70	79	73	70	75	900
4KA-W37-T6E	3.7	1.15	15.5	4880	18.7	6200	76	75	71	81	79	72	97	1500
4KA-W40-T6E	4.0	1.15	18.6	6040	22	6820	76	75	73	82	80	70	115	1500
4KA-W55-T6E	5.5	1.15	21	7280	26.3	8400	76	75	74	83	80	78	137	1500

For SS 316 construction replace KA with KN. Performance Data remains same.

The Given details / drawings / specifications are subject to change without prior notice.

4" Submersible Motor

TECHNICAL DATA

Three Phase - 380V (KA / KN Series)

Motor Type	kW	SF	Rated		Max.SF		Efficiency%			Power Factor%			Locked rotor Amps	Thrust Capacity (lbs)
3 Wire			Amps	W	Amps	W	SF	FL	3/4	SF	FL	3/4		
4KA-W03-T6J	0.37	1.6	1.6	720	1.9	960	50	47	70	78	77	70	10	650
4KA-W05-T6J	0.55	1.5	1.9	912	2.4	1296	65	63	65	81	75	65	12	650
4KA-W07-T6J	0.75	1.4	2.5	1248	3.6	1600	66	64	65	82	75	65	18	650
4KA-W11-T6J	1.1	1.3	3.4	1728	4.8	2200	67	65	71	81	78	71	24	650
4KA-W15-T6J	1.5	1.25	4.2	2256	5.8	2600	69	67	76	81	80	76	29	900
4KA-W22-T6J	2.2	1.15	5.6	3024	7.2	3808	74	72	74	783	82	74	36	900
4KA-W30-T6J	3.0	1.15	7.8	4000	9.5	4704	76	75	72	80	78	72	47	900
4KA-W37-T6J	3.7	1.15	9.1	4840	11.0	5960	76	75	73	82	81	73	55	1500
4KA-W40-T6J	4.0	1.15	11.3	6040	13	6780	76	75	74	82	81	72	65	1500
4KA-W55-T6J	5.5	1.15	13.3	7480	16	6780	76	75	74	82	81	72	65	1500

For SS 316 construction replace KA with KN. Performance Data remains same.

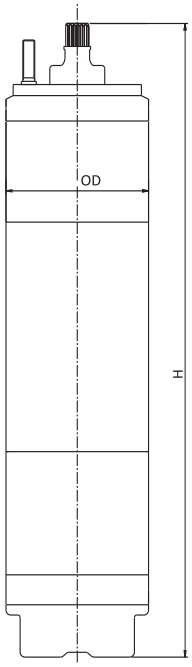
4" Submersible Motor

DIMENSIONS AND WEIGHT

Three Phase - 220, 230 & 380V (KA / KN Series)

Motor Type	kW	Diameter (OD) in Inches	Height (H) in Inches	Nett.Wt. in lbs	Standard Motor Leads	
					(mm^2)	Length (m)
4KA-W03-T6D	0.37	3.8	17	31	4 x 1.5	1.5
4KA-W05-T6D	0.55	3.8	19	36	4 x 1.5	1.5
4KA-W07-T6D	0.75	3.8	20	39	4 x 1.5	1.5
4KA-W11-T6D	1.1	3.8	22	46	4 x 1.5	1.5
4KA-W15-T6D	1.5	3.8	28	59	4 x 2.5	1.5
4KA-W22-T6D	2.2	3.8	29	70	4 x 2.5	2
4KA-W30-T6D	3.0	3.8	35	79	4 x 4	2
4KA-W37-T6D	3.7	3.8	38	87	4 x 4	2.5
4KA-W45-T6D	4.5	3.8	45	96	4 x 6	2.5
4KA-W55-T6D	5.5	3.8	52	103	4 x 6	2.5

Weight (lbs) and Height H (mm) are approximate.



Spline Data-14 teeth,
24/48 Pitch,
30 Degree pressure angle,
tolerance Class-5,
In accordance with ANSI B92-1

For SS 316 construction replace KA with KN. Performance Data remains same.

The Given details / drawings / specifications are subject to change without prior notice.

6" Submersible Motor

TECHNICAL DATA

Three Phase - 230V Δ / WYE - DELTA (KA / KN Series)

Motor Type	kW	SF	Rated		Max.SF		Efficiency%			Power Factor%			Locked rotor Amps	Thrust Capacity (lbs)
3 Wire			Amps	W	Amps	W	SF	FL	3/4	SF	FL	3/4		
6KA-W37-T6E	3.7	1.15	15.6	4840	17.9	5550	76.7	76.5	75.5	77	77	74	88	3500
6KA-W55-T6E	5.5	1.15	22.5	7200	25.8	8200	79	78	78	80	80	74	105	3500
6KA-W75-T6E	7.5	1.15	30	9800	35.5	11000	80	79	78	79	78	74	145	3500
6KA-W93-T6E	9.3	1.15	38	12000	43.7	13720	80	79	78	80	79	72	185	3500
6KA-W110-T6E	11	1.15	44	14280	51	16000	80	79	78	79	79	73	222	3500
6KA-W130-T6E	13	1.15	50	15580	57	18000	81	80	79	80	79	74	288	3500
6KA-W150-T6E	15	1.15	54	18160	62	21660	82	80	80	84	85	82	310	3500
6KA-W185-T6E	18.5	1.15	69.5	22480	80	25680	82	80	78	84	84	82	400	3500
6KA-W220-T6E	22	1.15	85	28680	98	33360	82	81	80	84	84	82	500	3500
6KA-W260-T6E	26	1.15	100	33740	115	38460	84	83	82	85	84	80	600	6000
6KA-W300-T6E	30	1.15	112	38560	129	43930	83	82	80	84	84	82	700	6000
6KA-W370-T6E	37	1.15	122	41800	140	47400	84	83	82	85	84	80	750	6000

Three Phase, 380V Δ / WYE - DELTA (KA / KN Series)

Motor Type	kW	SF	Rated		Max.SF		Efficiency%			Power Factor%			Locked rotor Amps	Thrust Capacity (lbs)
3 Wire			Amps	W	Amps	W	SF	FL	3/4	SF	FL	3/4		
6KA-W37-T6J	3.7	1.15	9.4	4840	10.8	5560	76.5	76.4	75.2	78	78.5	77.2	46	3500
6KA-W45-T6J	4.5	1.15	11	5600	13	6900	76	75	74	76	77	75	55	3500
6KA-W55-T6J	5.5	1.15	13.5	7800	15.5	8160	78	77	76	80	80	78	68	3500
6KA-W75-T6J	7.5	1.15	17.1	9200	19.5	10400	80	80	78.5	81	80	78	84	3500
6KA-W93-T6J	9.3	1.15	22	12000	25	13600	80.4	80	78	81	81	75	104	3500
6KA-W110-T6J	11	1.15	25.5	13600	29	15800	82	81	79	81	80	75	132	3500
6KA-W130-T6J	13	1.15	29	15760	33	18600	82	81	80	83	82	78	152	3500
6KA-W150-T6J	15	1.15	33.5	18400	38.5	21000	82	81	80	83	83	78	180	3500
6KA-W185-T6J	18.5	1.15	41	22800	47	26000	82	81	80	81	80	78	230	3500
6KA-W220-T6J	22	1.15	45.5	27600	52	30500	84	83	82	82	82	78	300	3500
6KA-W260-T6J	26	1.15	54	32000	62	36600	85	84	81	83	83	80	350	6000
6KA-W300-T6J	30	1.15	64.5	37240	74	43200	83	83	82	84	83	79	390	6000
6KA-W370-T6J	37	1.15	80	44640	92	51350	80	81	82.5	82	82	80	522	6000

For SS 316 construction replace KA with KN. Performance Data remains same.
For Star Delta connection replace “T” with “D”.

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6" Submersible Motor

TECHNICAL DATA

Three Phase, 460V Δ / WYE - DELTA (KA / KN Series)

Motor Type	kW	SF	Rated		Max.SF		Efficiency%			Power Factor%			Locked rotor Amps	Thrust Capacity (lbs)
3 Wire			Amps	W	Amps	W	SF	FL	3/4	SF	FL	3/4		
6KA-W37-T6N	3.7	1.15	7.9	4680	8.5	5120	79	78	77	79	78	76	38	3500
6KA-W45-T6N	4.5	1.15	9	5900	10.5	6720	80	78	78	80	79	77	48	3500
6KA-W55-T6N	5.5	1.15	13	7000	14	8050	78	77	79	82	82	81	60	3500
6KA-W75-T6N	7.5	1.15	15	9260	16.8	10600	80	80	79	82	78	77	77	3500
6KA-W93-T6N	9.3	1.15	18	11960	20.8	13800	80	80	79	79	82	80	90	3500
6KA-W110-T6N	11	1.15	22	14400	25	15300	83	83	82	82	82	79	110	3500
6KA-W130-T6N	13	1.15	25	16800	29	18800	82	81	81	82	84	82	130	3500
6KA-W150-T6N	15	1.15	28	18600	32	20408	82	83	82	84	84	82	160	3500
6KA-W185-T6N	18.5	1.15	33	22320	38	25600	83	83	82	85	84	82	190	3500
6KA-W220-T6N	22	1.15	38.8	26750	44.5	30750	84	84	82	87	84	82	230	3500
6KA-W260-T6N	26	1.15	48	31200	55	35800	85	84	82	83	82	82	275	6000
6KA-W300-T6N	30	1.15	53.5	35760	61.5	41160	84	84	83	84	84	82	320	6000
6KA-W370-T6N	37	1.15	67	44160	77	51600	85	84	83	84	83	80	390	6000
6KA-W450-T6N	45	1.15	85.5	56400	98	65600	82	82	81	84	83	80	480	6000

Three Phase, 575V Δ / WYE - DELTA (KA / KN Series)

Motor Type	kW	SF	Rated		Max.SF		Efficiency%			Power Factor%			Locked rotor Amps	Thrust Capacity (lbs)
3 Wire			Amps	W	Amps	W	SF	FL	3/4	SF	FL	3/4		
6KA-W22-T6P	2.2	1.15	3.7	3000	4.2	3450	74	73.3	73	76.9	75.3	72	22	3500
6KA-W37-T6P	3.7	1.15	6.2	4800	7	5520	77.1	77	76.5	78.1	77.7	77	31	3500
6KA-W55-T6P	5.5	1.15	8.8	7260	10	8340	75.8	75.7	74.5	82.3	81.7	80.5	48	3500
6KA-W75-T6P	7.5	1.15	11.5	9200	12.8	10520	82	81.5	81	82.5	80.5	80	67	3500
6KA-W93-T6P	9.3	1.15	14.6	11280	16.8	12920	83	82.5	82	77.2	80	77	85	3500
6KA-W110-T6P	11	1.15	17	13160	19	15400	83.2	83.5	82	81	78	76	98	3500
6KA-W150-T6P	15	1.15	22	17900	25	20560	84	83.8	82	82.5	81.7	77	130	3500
6KA-W185-T6P	18.5	1.15	27	22160	30	25460	83.5	83.5	82.6	85.2	84	79.5	165	3500
6KA-W220-T6P	22	1.15	32.5	26560	37	30520	83	82.8	81.8	82.8	80.8	77.5	200	3500
6KA-W300-T6P	30	1.15	43	36000	49.5	41400	83.3	83.3	82.4	83.9	84	82.5	280	6000

For SS 316 construction replace KA with KN. Performance Data remains same.
For Star Delta connection replace “T” with “D”.

The Given details / drawings / specifications are subject to change without prior notice.

6" Submersible Motor

DIMENSIONS AND WEIGHT

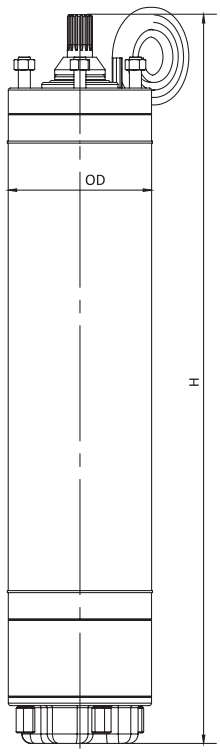
Three Phase, 220 / 230V Δ / WYE - DELTA (KA / KN Series)

Motor Type	kW	Diameter (OD) in Inches	Height (H) in Inches	Nett.Wt. in lbs	Standard Motor Leads	
					(mm^2)	Length (m)
6KA-W37-T6D	3.7	5.66	28.62	103.50	4 x 4	3
6KA-W45-T6D	4.5	5.66	29.21	106.50	4 x 4	3
6KA-W55-T6D	5.5	5.66	30.79	116.50	4 x 6	3
6KA-W75-T6D	7.5	5.66	32.17	126	4 x 6	3
6KA-W93-T6D	9.3	5.66	33.35	136	4 x 6	3
6KA-W110-T6D	11	5.66	34.92	142	4 x 10	3.5
6KA-W130-T6D	13	5.66	36.50	154	4 x 10	3.5
6KA-W150-T6D	15	5.66	39.25	167	4 x 10	3.5
6KA-W185-T6D	18.5	5.66	41.22	193.50	4 x 16	3.5
6KA-W220-T6D	22	5.66	45.35	208	4 x 16	3.5
6KA-W260-T6D	26	5.66	46	210	4 x 16	3.5
6KA-W300-T6D	30	5.66	48	224	4 x 16	3.5
6KA-W370-T6D	37	5.66	51	247	4 x 16	4.0

Three Phase, 380V Δ / WYE - DELTA (KA / KN Series)

Motor Type	kW	Diameter (OD) in Inches	Height (H) in Inches	Nett.Wt. in lbs	Standard Motor Leads	
					(mm^2)	Length (m)
6KA-W37-T6J	3.7	5.66	28.62	103.50	4 x 2.5	3
6KA-W45-T6J	4.5	5.66	29.21	106.50	4 x 2.5	3
6KA-W55-T6J	5.5	5.66	30.79	116.50	4 x 4	3
6KA-W75-T6J	7.5	5.66	32.17	126	4 x 4	3
6KA-W93-T6J	9.3	5.66	33.35	136	4 x 6	3
6KA-W110-T6J	11	5.66	34.92	142	4 x 6	3
6KA-W130-T6J	13	5.66	36.50	154	4 x 6	3
6KA-W150-T6J	15	5.66	39.25	167	4 x 10	3
6KA-W185-T6J	18.5	5.66	41.22	193.50	4 x 10	3.5
6KA-W220-T6J	22	5.66	45.35	208	4 x 10	3.5
6KA-W260-T6J	26	5.66	46	210	4 x 10	4.25
6KA-W300-T6J	30	5.66	48.31	224	4 x 10	4.25
6KA-W370-T6J	37	5.66	51	247	4 x 16	5.25

Weight (lbs) and Height H (mm) are approximate.



Spline Data-15 teeth,
16/32 Pitch,
30 Degree pressure angle,
tolerance Class-5,
In accordance with ANSI B92-1

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6" Submersible Motor

DIMENSIONS AND WEIGHT

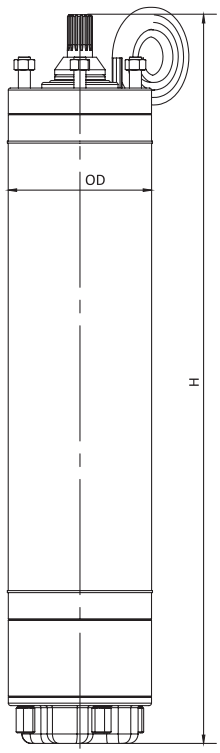
Three Phase, 460V Δ / WYE - DELTA (KA / KN Series)

Motor Type	kW	Diameter (D) in Inches	Height (H) in Inches	Nett.Wt. in lbs	Standard Motor Leads	
					(mm^2)	Length (m)
6KA-W37-T6N	3.7	5.66	28.62	103.50	4 x 2.5	3
6KA-W45-T6N	4.5	5.66	29.21	106.50	4 x 2.5	3
6KA-W55-T6N	5.5	5.66	30.79	116.50	4 x 4	3
6KA-W75-T6N	7.5	5.66	32.17	126	4 x 4	3
6KA-W93-T6N	9.3	5.66	33.35	136	4 x 6	3
6KA-W110-T6N	11	5.66	34.92	142	4 x 6	3
6KA-W130-T6N	13	5.66	36.50	153	4x 6	3
6KA-W150-T6N	15	5.66	39.25	167	4 x 10	3
6KA-W185-T6N	18.5	5.66	41.22	193.5	4 x 10	3.5
6KA-W220-T6N	22	5.66	45.35	207.50	4 x 10	3.5
6KA-W260-T6N	26	5.66	46.14	217.10	4 x 10	4.25
6KA-W300-T6N	30	5.66	48.31	224.10	4 x 10	4.25
6KA-W370-T6N	37	5.66	51.25	247	4 x 16	5.25
6KA-W450-T6N	45	5.66	53	252	4 x 16	5.25

Three Phase, 575V Δ / WYE - DELTA (KA / KN Series)

Motor Type	kW	Diameter (D) in Inches	Height (H) in Inches	Nett.Wt. in lbs	Standard Motor Leads	
					(mm^2)	Length (m)
6KA-W22-T6P	2.2	5.66	26.2	99	4 x 2.5	3
6KA-W37-T6P	3.7	5.66	28	108	4 x 2.5	3
6KA-W55-T6P	5.5	5.66	31.3	122.8	4 x 4	3
6KA-W75-T6P	7.5	5.66	34.5	141.5	4 x 4	3
6KA-W93-T6P	9.3	5.66	36.5	156.5	4 x 6	3
6KA-W110-T6P	11	5.66	39	171.9	4 x 6	3
6KA-W150-T6P	15	5.66	42.8	198.8	4x 6	3
6KA-W185-T6P	18.5	5.66	45.7	215.6	4 x 10	3
6KA-W220-T6P	22	5.66	48.1	231.5	4 x 10	3.5
6KA-W300-T6P	30	5.66	52.3	261.2	4 x 10	3.5

Weight (lbs) and Height H (mm) are approximate.



Spline Data-15 teeth,
16/32 Pitch,
30 Degree pressure angle,
tolerance Class-5,
In accordance with ANSI B92-1

The Given details / drawings / specifications are subject to change without prior notice.

8" Submersible Motor

TECHNICAL DATA

Three Phase, 380V Δ / WYE - DELTA (KB Series)

Motor Type	kW	SF	Rated		Max.SF		Efficiency%			Power Factor%			Locked rotor Amps	Thrust Capacity (lbs)
3 Wire			Amps	W	Amps	W	SF	FL	3/4	SF	FL	3/4		
8KB-W370-T6J	37	1.15	77	45040	91	52000	85	84	82	87	88	86	455	10000
8KB-W450-T6J	45	1.15	90	43000	105	61600	85	84	84	89	89	87	525	10000
8KB-W550-T6J	55	1.15	108	63000	124	75120	87	86	85	89	88	87	630	12500
8KB-W630-T6J	63	1.15	128	76000	150	87000	87	86	84	88	90	87	750	12500
8KB-W750-T6J	75	1.15	150	88000	176	102000	87	87	85	88	90	87	960	12500
8KB-W930-T6J	93	1.15	180	108160	210	125120	88	87	86	90	81	87	1200	12500

Three Phase, 460V, 3 Wire Δ / WYE - DELTA (KB Series)

Motor Type	kW	SF	Rated		Max.SF		Efficiency%			Power Factor%			Locked rotor Amps	Thrust Capacity (lbs)
3 Wire			Amps	W	Amps	W	SF	FL	3/4	SF	FL	3/4		
8KB-W370-T6N	37	1.15	64.5	44000	74	50400	87	86	86	85	85	80	420	10000
8KB-W450-T6N	45	1.15	76.5	54800	88	60400	88	87	86	85	86	83	520	10000
8KB-W550-T6N	55	1.15	96	61600	110	70400	76	85	84	88	88	84	630	12500
8KB-W630-T6N	63	1.15	106	73960	122	84660	86	85	84	86	88	85	726	12500
8KB-W750-T6N	75	1.15	126	87000	145	99600	86	86	84	88	88	85	900	12500
8KB-W930-T6N	93	1.15	155	105600	178	126800	87	86	85	90	88	87	1100	12500

For Star Delta connection replace “T” with “D”.

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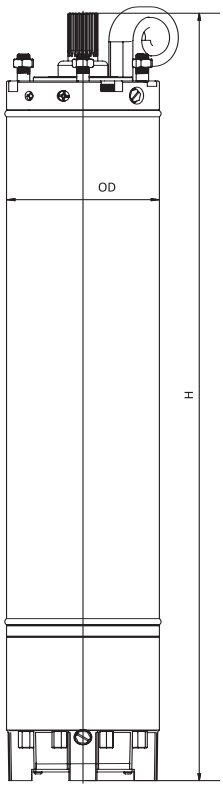
8" Submersible Motor

DIMENSIONS AND WEIGHT

Three Phase, 380/460V Δ / WYE - DELTA (KB Series)

Motor Type	kW	Diameter (D) in Inches	Height (H) in Inches	Nett.Wt. in lbs	Standard Motor Leads		
					DOL (mm^3)	S/D (mm^3)	Length (m)
8KB-W370-T6J	37	7.3	51	375	4 X 16	4 X 10	5
8KB-W450-T6J	45	7.3	60	383	4 X 16	4 X 16	5
8KB-W550-T6J	55	7.6	71	465	4 X 35	4 X 16	5
8KB-W630-T6J	63	7.6	65	533	4 X 35	4 X 16	5
8KB-W750-T6J	75	7.6	70	757	4 X 35	4 X 16	5
8KB-W930-T6J	93	7.6	75	636.50	4 X 35	4 X 16	5

Weight (lbs) and Height H (mm) are approximate.



Spline Data-23 teeth,
16/32 Pitch,
30 Degree pressure angle,
tolerance Class-5,
In accordance with ANSI B92-1

The Given details / drawings / specifications are subject to change without prior notice.

10" Submersible Motor

TECHNICAL DATA

Three Phase, 380V Δ / WYE - DELTA (KB Series)

Motor Type	kW	Current Range		Full Load		Thrust Capacity (N)	Cable Size (Sq.mm)	
3 Wire		Full load	Starting Current	Eff. (%)	Power Factor		DOL	SD
10KB-W810-T6J	81	159	312	84	92	75000	3 x 25	(3 x 16) x 2
10KB-W930-T6J	93	181	353	84	92	75000	3 x 25	(3 x 16) x 2
10KB-W1100-T6J	110	219	431	84	91	75000	3 x 35	(3 x 25) x 2
10KB-W1300-T6J	130	256	503	85	92	75000	3 x 35	(3 x 25) x 2
10KB-W1500-T6J	150	286	560	85	92	75000	3 x 35	(3 x 25) x 2
10KB-W1650-T6J	165	323	629	85	92	75000	(3 x 35) x 2	(3 x 35) x 2
10KB-W1850-T6J	185	359	708	85	92	75000	(3 x 35) x 2	(3 x 35) x 2

Three Phase, 440V Δ / WYE - DELTA (KB Series)

Motor Type	kW	Current Range		Full Load		Thrust Capacity (N)	Cable Size (Sq.mm)	
3 Wire		Full load	Starting Current	Eff. (%)	Power Factor		DOL	SD
10KB-W810-T6M	81	138	270	84	92	75000	3 x 25	(3 x 16) x 2
10KB-W930-T6M	93	156	305	84	92	75000	3 x 25	(3 x 16) x 2
10KB-W1100-T6M	110	189	372	84	91	75000	3 x 35	(3 x 25) x 2
10KB-W1300-T6M	130	221	434	85	92	75000	3 x 35	(3 x 25) x 2
10KB-W1500-T6M	150	247	483	85	92	75000	3 x 35	(3 x 25) x 2
10KB-W1650-T6M	165	279	543	85	92	75000	(3 x 35) x 2	(3 x 35) x 2
10KB-W1850-T6M	185	310	612	85	92	75000	(3 x 35) x 2	(3 x 35) x 2

Three Phase, 460V Δ / WYE - DELTA (KB Series)

Motor Type	kW	Current Range		Full Load		Thrust Capacity (N)	Cable Size (Sq.mm)	
3 Wire		Full load	Starting Current	Eff. (%)	Power Factor		DOL	SD
10KB-W810-T6N	81	131	663	84	92	75000	3 x 25	(3 x 25) x 2
10KB-W930-T6N	93	149	748	84	92	75000	3 x 25	(3 x 25) x 2
10KB-W1100-T6N	110	180	910	84	91	75000	3 x 35	(3 x 25) x 2
10KB-W1300-T6N	130	207	1050	85	92	75000	3 x 35	(3 x 25) x 2
10KB-W1500-T6N	150	236	1197	85	92	75000	3 x 35	(3 x 25) x 2
10KB-W1650-T6N	165	266	1347	85	92	75000	(3 x 35) x 2	(3 x 25) x 2
10KB-W1850-T6N	185	297	1502	85	92	75000	(3 x 35) x 2	(3 x 25) x 2

For Star Delta connection replace “T” with “D”.

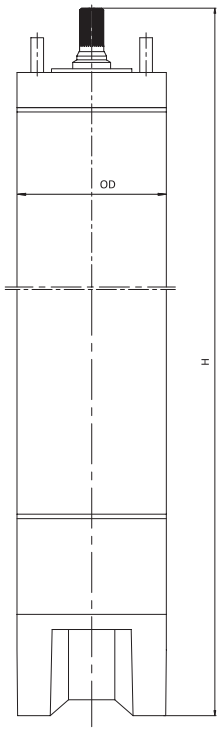
10" Submersible Motor

DIMENSIONS AND WEIGHT

Three Phase, 380/440/460V Δ / WYE - DELTA (KB Series)

Motor Type	kW	Diameter (D) in Inches	Height (H) in Inches	Nett.Wt. in lbs	Standard Motor Leads		
					DOL (mm^3)	S/D (mm^3)	Length (m)
10KB-W810-T6J	81	9.3	51	375	4 X 16	4 X 10	5
10KB-W930-T6J	93	9.3	60	383	4 X 16	4 X 16	5
10KB-W1100-T6J	110	9.5	71	465	4 X 35	4 X 16	5
10KB-W1300-T6J	130	9.5	65	533	4 X 35	4 X 16	5
10KB-W1500-T6J	150	9.5	70	636.50	4 X 35	4 X 16	5
10KB-W1650-T6J	165	9.5	75	757	4 X 35	4 X 16	5
10KB-W1850-T6J	185	9.5	75	810	4 X 35	4 X 16	5

Weight (lbs) and Height H (mm) are approximate.



Spline Data-23 teeth,
16/32 Pitch,
30 Degree pressure angle,
tolerance Class-5,
In accordance with ANSI B92-1

The Given details / drawings / specifications are subject to change without prior notice.

Oil Filled Submersible Motors

DESCRIPTION

Genvik Oil Filled submersible motors are oil cooled type and non-rewindable type. These motors are innovatively designed and manufactured by employing latest engineering softwares and tools with the complement of state of art technology for heavy duty and maintenance free operations.

The unique design of the motor provides better performance and gives the most optimized efficiency to ensure trouble free operation. The stator shell and motor base made of SS 304 / 316 grade stainless steel which prevents the motor from corrosion. Dynamically balanced rotors maintainance uniform clearance thereby giving better efficiency and increases the lifecycle of the bush bearings. To withstand high axial thrust load and upthrust load specially designed high performance thrust bearings are used. The main advantage of the Genvik rewindable motor construction is making the repair and rewinding easier at any fields.

Sealing are made by means of 'O'rings to avoid leakage. To prevent the sand and fibre particles into the motor sandguard and shaft seals are used. Ensure that the motor does not run when it is not submerged in the water. To balance the pressure variations inside the motors rubber diaphragm is installed. Genvik motors are produced in accordance with ISO 9001 standards and mounting dimensions with NEMA Standard.

FEATURES	APPLICATIONS
Easy installation and maintenance	These submersible motors are appropriate to couple with deep well submersible pumps.
Rewindable motors	
Hard wearing lubricated bearings	
High mechanical stability	
Protection against upthrust load	

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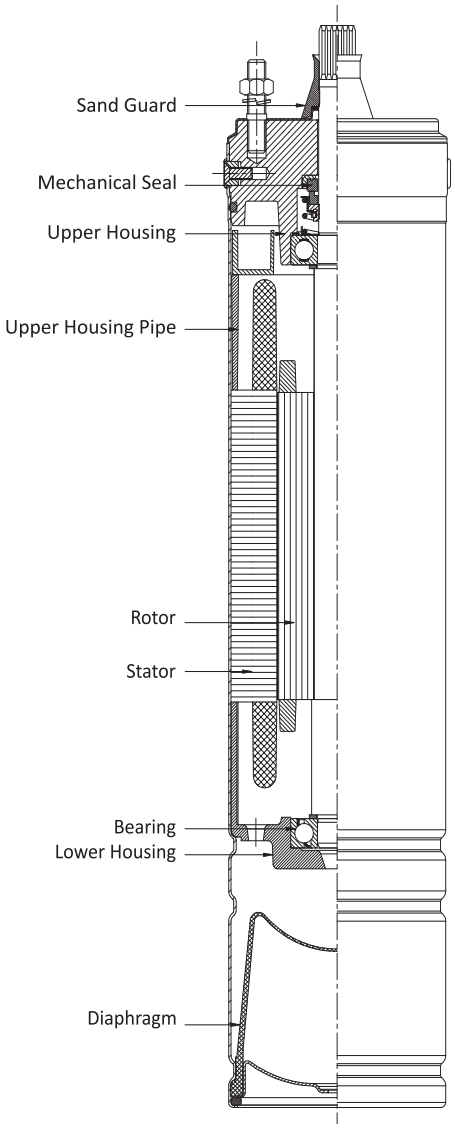
4" Cross Sectional Drawing



SPECIFICATIONS

Power Range	2.2-7.5kW - 460V, 3 Ph
	0.37-5.5kW - 380V, 3 Ph
	0.37-2.2kW - 230V, 1 Ph
	0.37-3.7kW - 220V, 1 Ph
Max. Outer Diameter	96mm
Speed	3450 rpm
Type of Duty	S1 (Continuous)
Degree of Protection	IP 68
Max. Liquid Temperature	33°C
Min. Cooling Flow	0.15 m/s
Starts per Hour	30 Times
Rotation	Single Phase - CCW
	Three Phase - CW, CCW
Down Thrust Load	0.37-1.5kW - 3000N - 1Ph
	0.37-1.5kW - 3000N - 3Ph
	2.2-7.5kW - 6500N - 3Ph
Class of Insulation	F
Method of Starting	Single Phase - CSR
	Three Phase - DOL
Mounting Standard	NEMA Standard
Cable Lead Out Type	3 Core/4 Core Rubber Insulated Flat Cable

MATERIALS OF CONSTRUCTION

Part Name	Type - KA
Stator Shell	S.S 304
Mechanical Seal	Carbon Ceramic
Diaphragm	High Nitrile Rubber (HNBR)

The Given details / drawings / specifications are subject to change without prior notice.

4" Submersible Motor

TECHNICAL DATA

Single Phase, 230V (KA / KN Series)

Motor Type	kW	SF	Nominal Amps	Max.SF		Locked Rotor Amps	Thrust Load		Capacitor
				Amps	W		lbs	N	
4KA-L03-S6E	0.37	1.6	4.20	5.00	1080	22.50	800	3000	25
4KA-L05-S6E	0.55	1.5	5.20	6.20	1200	27.90	800	3000	25
4KA-L07-S6E	0.75	1.4	7.00	8.00	1600	36.00	800	3000	30
4KA-L11-S6E	1.1	1.3	8.50	10.10	2150	45.45	800	3000	40
4KA-L15-S6E	1.5	1.25	11.50	13.00	2750	58.50	800	3000	50
4KA-L22-S6E	2.2	1.15	15.10	17.20	3560	77.70	1500	3500	55

Single Phase, 220V (KA / KN Series)

Motor Type	kW	SF	Max.SF		Efficiency%		Power Factor%		Locked Rotor Amps	Thrust Load		Resistance Values Approx. in ohms Tolerance ±10%
			Amps	W	SF	FL	SF	FL		lbs	N	
4KA-L03-S6D	0.37	1.6	3.2	696	63	62	78	80	18	650	3000	8.67
4KA-L07-S6D	0.75	1.4	4.8	1200	65	64	78	80	28	650	3000	4.11
4KA-L11-S6D	1.1	1.3	6.20	1670	73	72	78	83	35	650	3000	2.73
4KA-L15-S6D	1.5	1.25	8.10	2100	73	72	77	85	44	650	3000	2.10
4KA-L22-S6D	2.2	1.15	10.8	3020	76	75	77	81	58	1500	6500	1.64
4KA-L37-S6D	3.7	1.15	16.3	5040	78	77	71	74	90	1500	6500	1.12

Three Phase, 380V (KA / KN Series)

Motor Type	kW	SF	Max.SF		Efficiency%		Power Factor%		Locked Rotor Amps	Thrust Load		Resistance Values Approx. in ohms Tolerance ±10%
			Amps	W	SF	FL	SF	FL		lbs	N	
4KA-L03-T6J	0.37	1.6	1.6	696	63	62	78	80	9	650	3000	24.5
4KA-L05-T6J	0.55	1.5	2.0	900	65	64	81	85	13	650	3000	19.4
4KA-L07-T6J	0.75	1.4	2.8	1200	65	64	81	85	17	650	3000	12.45
4KA-L11-T6J	1.1	1.3	3.8	1670	66	63	80	84	22	650	3000	8.25
4KA-L15-T6J	1.5	1.25	4.6	2150	71	70	78	81	26	650	3000	6.00
4KA-L22-T6J	2.2	1.15	6.5	3020	72	71	76	79	36	1500	6500	4.85
4KA-L37-T6J	3.7	1.15	10.4	5040	74	73	73	78	56	1500	6500	3.25

For SS 316 construction replace KA with KN. Performance Data remains same.

4" Submersible Motor

DIMENSIONS AND WEIGHT

Single Phase, 230V, Δ / WYE - DELTA (KA / KN Series)

Motor Type	kW	Diameter (D) in Inches	Height (H) in Inches	Net Weight in lbs	Standard Motor Lead	
					mm²	Length (m)
4KA-L03-S6E	0.37	3.8	11.5	7.080	4 x 1.5	1.5
4KA-L05-S6E	0.55	3.8	12.0	7.750	4 x 1.5	1.5
4KA-L07-S6E	0.75	3.8	13.0	9.200	4 x 1.5	1.5
4KA-L11-S6E	1.1	3.8	14.0	10.500	4 x 1.5	1.5
4KA-L15-S6E	1.5	3.8	17.5	12.600	4 x 1.5	1.5
4KA-L22-S6E	2.2	3.8	21.0	16.520	4 x 1.5	1.5

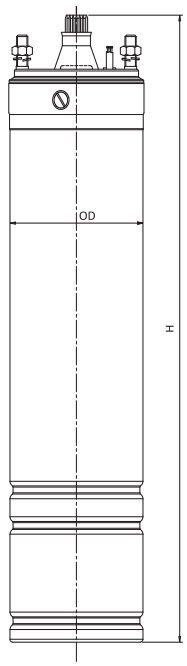
Single Phase, 220V (KA / KN Series)

Motor Type	kW	Diameter (D) in Inches	Height (H) in Inches	Net Weight in lbs	Standard Motor Lead	
					mm²	Length (m)
4KA-L03-S6D	0.37	3.8	11.5	8.750	4 x 1.5	1.5
4KA-L07-S6D	0.75	3.8	13.0	9.450	4 x 1.5	1.5
4KA-L11-S6D	1.1	3.8	14.0	10.740	4 x 1.5	1.5
4KA-L15-S6D	1.5	3.8	17.5	12.040	4 x 1.5	1.5
4KA-L22-S6D	2.2	3.8	19.0	14.360	4 x 1.5	2.0
4KA-L37-S6D	3.7	3.8	23.0	20.750	4 x 1.5	2.0

Three Phase, 380V (KA / KN Series)

Motor Type	kW	Diameter (D) in Inches	Height (H) in Inches	Net Weight in lbs	Standard Motor Lead	
					mm²	Length (m)
4KA-L03-T6J	0.37	3.8	11.5	7.800	4 x 1.5	1.5
4KA-L05-T6J	0.55	3.8	12.0	8.750	4 x 1.5	1.5
4KA-L07-T6J	0.75	3.8	13.0	9.550	4 x 1.5	1.5
4KA-L11-T6J	1.1	3.8	14.0	10.750	4 x 1.5	1.5
4KA-L15-T6J	1.5	3.8	17.5	11.950	4 x 1.5	1.5
4KA-L22-T6J	2.2	3.8	19.0	14.600	4 x 1.5	2.0
4KA-L37-T6J	3.7	3.8	23.0	20.600	4 x 1.5	2.0

Weight (lbs) and Height H (mm) are approximate.



Spline Data-14 teeth,
24/48 Pitch,
30 Degree pressure angle,
tolerance Class-5,
In accordance with ANSI B92-1

The Given details / drawings / specifications are subject to change without prior notice.

Cable Selection Chart

1Ph, 230V, 2/3 WIRE MOTORS, MAXIMUM LENGTH OF COPPER CABLE IN FEET															
HP	CABLE SIZE IN AMERICAN WIRE GUAGE														
	14	12	10	8	6	4	3	2	1	0	00	000	0000	250	300
1/3	550	880	1390	2190	3400	5250	6520	7960	9690	11770					
1/2	400	650	1020	1610	2510	3880	4810	5880	7170	8720					
3/4	300	480	760	1200	1870	2820	3580	4370	5330	6470	7870				
1	250	400	630	990	1540	2380	2960	3610	4410	5360	6520				
1-1/2	190	310	480	770	1200	1870	2320	2850	3500	4280	5240				
2	150	250	390	620	970	1530	1910	2360	2930	3620	4480				
3	120	190	300	470	250	1190	1490	1850	2320	2890	3610				
5			180	280	450	710	890	1110	1390	1740	2170	2680			
7-1/2				200	310	490	610	750	930	1140	1410	1720			
10					250	390	490	600	750	930	1160	1430	1760		
15					170	270	340	430	530	660	820	1020	1260		

3Ph, 460V, 3 WIRE (DOL) MOTORS, MAXIMUM LENGTH OF COPPER CABLE IN FEET																		
HP	CABLE SIZE IN AMERICAN WIRE GUAGE													MCM Copper Wire Size				
	14	12	10	8	6	4	3	2	1	0	00	000	0000	250	300	350	400	500
1/2	3770	6020	9460															
3/4	2730	4350	6850															
1	2300	3670	5770	9070														
1-1/2	1700	3710	4270	6730														
2	1300	2070	3270	5150	8050	5750												
3	1000	1600	2520	3970	6200	4100	5100	6260	7180									
5	590	950	150	2360	3700	3050	3800	4680	5750	7050								
7-1/2	420	680	1070	1690	2640	2090	2600	3200	3930	4810	5900	7110						
10	310	500	790	1250	1960	1610	2000	2470	3040	3730	4580	5530						
15		340	450	850	1340	1300	1620	1990	2450	3010	3700	4470	5430					
20			410	650	1030	1070	1330	1640	2030	2490	3060	3700	4500					
25				530	830	790	980	1210	1490	1830	2250	2710	3290					
30				430	680	640	800	980	1210	1780	1810	2190	2650	5130	5860			
40					500	540	670	830	1020	1250	1540	1850	2240	3730	4250			
50								680	840	1030	1260	1520	1850	3010	3420	3830	4180	4850
60									620	760	940	1130	1380	2540	2890	3240	3540	4100
75											740	890	1000	2100	2400	2700	2950	3440
100												760	920	1560	1790	2010	2190	2550
125													810	1220	1390	1560	1700	1960
150														1050	1190	1340	1460	1690
175														930	1060	1190	1300	1510
200														810	920	1030	1130	1310

The given cable lengths are the maximum ones from POWER SOURCE TO MOTOR. Exceeding the lengths mentioned will void warranty.

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Cable Selection Chart

3Ph, 460V, 3 WIRE (DOL) MOTORS, MAXIMUM LENGTH OF COPPER CABLE IN FEET																		
HP	CABLE SIZE IN AMERICAN WIRE GUAGE													MCM Copper Wire Size				
	14	12	10	8	6	4	3	2	1	0	00	000	0000	250	300	350	400	500
5	880	1420	2250	3450	5550	8620												
7-1/2	630	1020	1600	2530	3960	6150	7650	9360										
10	460	750	1180	1870	2940	4570	5700	7020	8620									
15	310	510	810	1270	2010	3130	3900	4800	5800	7210	8850							
20	230	380	610	970	1540	2410	3000	3700	4560	5590	6870	8290						
25	190	310	490	790	1240	1950	2430	2980	3670	510	5550	6700	8140					
30		250	410	640	1020	1600	1990	2460	3040	3730	4590	5550	6750	7690	8730			
40			300	480	750	1180	1470	1810	2230	2740	3370	4080	4930	5590	6370			
50				370	590	960	1200	1470	1810	2220	2710	3280	3970	4510	5130	5740	6270	7270
60				320	500	810	1000	1240	1530	1870	2310	2770	3360	3810	4330	4860	5310	6510
75					420	660	810	1020	1260	1540	1890	2280	2770	3150	3600	4050	4420	5160
100						500	610	760	930	1140	1410	1690	2070	2340	2680	3010	3280	3820
125							470	590	730	880	1110	1330	1500	1830	2080	2340	2550	2940
150								410	630	770	950	1140	1380	1570	1790	2000	2180	2530
175									550	680	830	1000	1220	1390	1580	1780	1950	2270
200										590	730	880	1070	1210	1380	1550	1690	1970

The given cable lengths are the maximum ones from POWER SOURCE TO MOTOR. Exceeding the lengths mentioned will void warranty.

Important Notes :

1. Read our user's manual throughly before Installation
2. Motor should not be run without water. Install dry run & Phase Preventor for additional Protection.
3. The given weights & dimensions are only Approximate.
4. The Company reserves the right to modify the Technical Specifications and illustrations without prior notice.
5. Performance & Electrical data are common for both D.O.L. (△) and WYE-Delta motors.
6. It is mandatory to install Tormak Control boxes for all 1 phase & for 3 Phase motors proper control systems to be installed.
7. WYE-Delta (S.D.) motors available from 5.5 kW.

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