



sabar

PUMPS • MOTORS • PIPES



Trusted Around The World

Submersible Motor
50 Hz / 60 Hz



For Selected Models Only

COMPANY PROFILE

Founded in 1975, Sabar has been a pioneer in manufacturing high-quality water pumps. Over the decades, we’ve expanded our portfolio and established a strong presence across both domestic and global markets. Driven by innovation and customer satisfaction, Sabar has continually embraced cutting-edge technologies in R&D. Our diverse range includes Pumps, Motors, uPVC Column Pipes, and other precision-engineered products. Today, Sabar is a trusted global brand, delivering reliable pumping solutions in over 40 countries. Our commitment to excellence is reflected in the trust of our customers and our adherence to top-tier national and international quality standards.	Sabar Group of Companies 8 Companies
	Domestic Marketing Network 15 Branches
	Dealer Network Across India 1500
	Global Presence in more than 40 Countries
	"SABAR" have been Awarded 28 times For (National Award-10 Times & Regional Award-18 Times) for Export Excellence from the EEPC under the Ministry of Commerce, Government of India (Medium Enterprise).



Shri Piyush Goyal, Union Minister of Commerce & Industry, and Shri Jitin Prasada, Union Minister of State for Commerce & Industry presenting the National Star Performer AWARD for Export Excellence (Medium Enterprise) to our directors, Mr. Jamil Mansuri and Mr. Hassan Mansuri.

SABAR Cast Iron and Stainless Steel Submersible motors are 2 pole squirrel cage induction motors designed as rewindable, wet type and cooled with water filled in.

Features

- ▶ High efficient electrical design and low operation cost.
- ▶ All Motors are 100% tested.
- ▶ Strong & robust construction to survive in any site condition.
- ▶ Sand slinger and Shaft seal for good performance in sand.
- ▶ A special Diaphragm ensures pressure compensation inside the motor.
- ▶ Water lubricated thrust and radial bearings enable a maintenance free operation.
- ▶ Cooling and lubrication by non toxic fluid.
- ▶ Cable material according to drinking water regulations.
- ▶ Motor manufactured in ISO 9001 certified manufacturing facility.
- ▶ Motor Mounting with NEMA Standard.
- ▶ Stainless steel Shaft.

Product Specification

Standard Rewindable Submersible Motors (Cast Iron and Stainless Steel 304)

Particular		Motor Type		
		4"	6"	8"
Voltage	50 Hz	380/400/415	380/400/415	380/400/415
	60 Hz	220/380/440/460	220/380/440/460	220/380/440/460
Voltage Tolerance	50 Hz	+10% to -15%	+10% to -15%	+10% to -15%
	60 Hz	+10% to -15%	+10% to -15%	+10% to -15%
Phase		3	3	3
Insulation Class		Y class as per IS 1271	Y class as per IS 1271	Y class as per IS 1271
Degree of Protection		IP 68	IP 68	IP 68
Type of Duty		S1	S1	S1
Electrical Winding		Wet type Rewindable	Wet type Rewindable	Wet type Rewindable
Winding Wire		PVC / PP	PVC / PP	PVC / PP
Ambient Temperature		45°	45°	45°
Starts Per Hour		20	20	15
Minimum Cooling Flow		0.2 m/s	0.5 m/s	0.5 m/s

We are also equipped to supply pump sets in different construction of materials and also with special designs, voltage, frequency, protection class as per specification of any international standard or as per requirement of valued customers.
In view of continuous developments, the descriptions, specifications, illustrations and other information provided are subject to change without prior notice.

4" Submersible Motor - Water filled

Material : Cast Iron / Stainless Steel 304

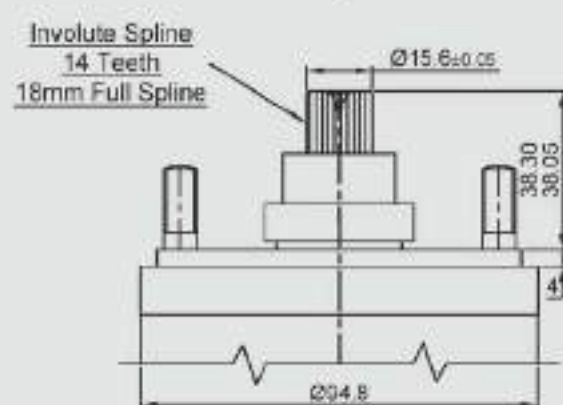
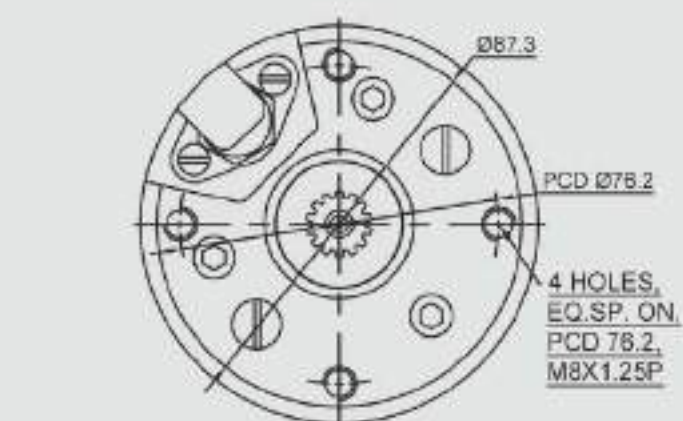
Rating : 0.37 - 7.5 kW (0.50 - 10 HP)

Type : Rewindable

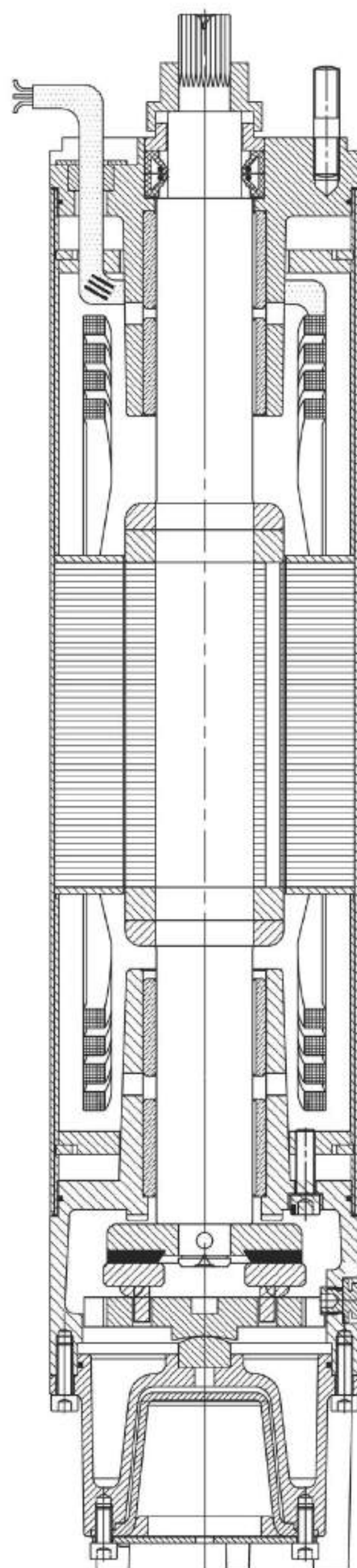
Thrust Rating: 3000 - 4000 N

Material of Construction

Parts Name	Cast Iron	Stainless Steel 304
Rotor Shaft	Stainless Steel	Stainless Steel
Stator Body / Shell	AISI 304	AISI 304
Housing Upper / Lower	FG 200 IS 210	AISI 304
Base Cover	FG 200 IS 210	AISI 304
Thrust Bearing Segment	AISI 420	AISI 420
Shaft Seal	Lip seal-NBR	Lip seal-NBR
Shaft END	Stainless Steel	AISI 630
Diaphragm	NBR	NBR
Bearing Bush	Graphite Carbon	Graphite Carbon
Lead Cable	Rubber / PVC	Rubber / PVC
Sand Guard	NBR	NBR
Hardware	Stainless Steel	Stainless Steel



4" Sub. Motor



4" Submersible Motor Performance Data - 50 Hz



Type	kW	HP	Thrust Load (N)	Volt	Amps FI	Amps Starting	RPM	Efficiency at % Load			Power Factor at % Load			T _N NM
								50%	75%	100%	50%	75%	100%	
V4	0.75	1.00	3000	380	2.18	9.28	2845	67.8	69.7	70.7	0.68	0.75	0.84	2.52
				400	2.1	8.94	2855	68.5	70.4	71.4	0.68	0.76	0.85	2.51
				415	2.05	8.72	2860	68.1	70.0	71.0	0.67	0.74	0.83	2.51
	1.10	1.50	3000	380	3.19	13.57	2845	68.8	70.7	71.7	0.67	0.74	0.83	3.69
				400	3.08	13.11	2855	69.4	71.4	72.4	0.68	0.75	0.84	3.68
				415	3	12.77	2860	69.0	71.0	72.0	0.66	0.73	0.82	3.67
	1.50	2.00	3000	380	4.28	18.21	2845	70.7	72.7	73.7	0.65	0.72	0.81	5.04
				400	4.13	17.57	2855	71.4	73.4	74.4	0.66	0.73	0.82	5.02
				415	4.02	17.11	2860	71.0	73.0	74.0	0.64	0.71	0.79	5.01
	2.20	3.00	3000	380	6.27	26.68	2850	70.7	72.7	73.7	0.65	0.72	0.81	7.38
				400	6.05	25.74	2860	71.4	73.4	74.4	0.66	0.73	0.82	7.35
				415	5.9	25.10	2870	71.0	73.0	74.0	0.64	0.71	0.79	7.32
	3.00	4.00	3000	380	8.55	36.38	2850	71.7	73.7	74.7	0.65	0.72	0.8	10.06
				400	8.25	35.10	2860	72.5	74.5	75.5	0.65	0.72	0.81	10.02
				415	8.04	34.21	2870	72.0	74.0	75.0	0.63	0.70	0.78	9.99
	3.70	5.00	4000	380	9.62	40.93	2850	71.7	73.7	74.7	0.65	0.72	0.8	12.4
				400	9.25	39.36	2860	72.5	74.5	75.5	0.65	0.72	0.81	12.36
				415	8.88	37.78	2870	72.0	74.0	75.0	0.63	0.70	0.78	12.32
	4.50	6.00	4000	380	11.7	49.78	2850	72.6	74.7	75.7	0.64	0.71	0.79	15.09
				400	11.25	47.87	2860	73.4	75.5	76.5	0.65	0.72	0.8	15.03
				415	10.8	45.95	2870	72.9	75.0	76.0	0.62	0.69	0.77	14.98
	5.50	7.50	4000	380	13.48	57.36	2865	74.6	76.7	77.7	0.62	0.69	0.77	18.34
				400	12.93	55.02	2875	75.3	77.4	78.5	0.63	0.70	0.78	18.28
				415	12.65	53.83	2880	74.8	76.9	78.0	0.60	0.67	0.75	18.25
	7.50	10.00	4000	380	18.38	78.21	2865	75.5	77.6	78.7	0.61	0.68	0.76	25.01
				400	17.63	75.02	2875	76.2	78.4	79.5	0.62	0.69	0.77	24.93
				415	17.25	73.40	2880	75.8	77.9	79.0	0.59	0.66	0.74	24.88

Performance values shown at 380V, 400V and 415V are for the same 50Hz, 400 V ±10% motor design, capable of operating within 360V – 440V. For reliable operation and to allow for normal voltage fluctuations, a nominal installation voltage between 380V and 415V is recommended.

4" Submersible Motor Performance Data - 60 Hz

Type	kW	HP	Thrust Load (N)	Volt	Amps FI	Amps Starting	RPM	Efficiency at % Load			Power Factor at % Load			T _N NM
								50%	75%	100%	50%	75%	100%	
V4	0.75	1.00	3000	220	4.24	12.50	3470	73.00	74.00	74.00	0.65	0.77	0.81	2.08
				380	2.58	7.65	3480	73.00	74.00	74.00	0.65	0.77	0.81	2.07
				460	2.10	6.58	3490	72.00	73.00	73.00	0.62	0.75	0.79	2.07
	1.10	1.50	3000	220	6.21	19.56	3470	72.00	73.00	75.00	0.64	0.77	0.81	3.05
				380	3.77	11.90	3490	72.00	73.00	75.00	0.64	0.77	0.81	3.03
				460	3.05	10.04	3490	71.00	72.00	74.00	0.60	0.75	0.79	3.03
	1.50	2.00	3000	220	8.16	26.94	3470	73.00	75.00	76.00	0.62	0.76	0.82	4.16
				380	4.94	16.33	3480	73.00	75.00	76.00	0.65	0.76	0.82	4.15
				460	3.98	13.61	3480	72.00	74.00	76.00	0.60	0.75	0.79	4.15
	2.20	3.00	3000	220	11.97	42.23	3470	73.00	74.00	76.00	0.62	0.74	0.81	6.10
				380	7.20	25.35	3480	73.00	74.00	76.00	0.62	0.74	0.81	6.08
				460	5.79	20.85	3480	72.00	73.00	75.00	0.60	0.73	0.79	6.08
	3.00	4.00	3000	220	15.68	57.96	3480	74.00	76.00	77.00	0.64	0.75	0.82	8.30
				380	9.44	34.77	3490	74.00	76.00	77.00	0.65	0.76	0.82	8.27
				460	7.56	28.24	3490	73.00	74.00	76.00	0.60	0.75	0.79	8.27
	3.70	5.00	4000	220	21.18	82.44	3480	74.00	76.00	79.00	0.68	0.78	0.81	10.23
				380	12.71	49.18	3470	74.00	76.00	79.00	0.67	0.78	0.80	10.26
				460	10.12	39.34	3470	72.00	74.00	78.00	0.62	0.74	0.78	10.26
	4.50	6.00	4000	220	22.98	90.75	3485	75.00	77.00	80.00	0.75	0.78	0.82	12.43
				380	13.80	54.16	3475	75.00	77.00	80.00	0.75	0.78	0.81	12.46
				460	10.98	43.16	3475	74.00	76.00	78.00	0.70	0.74	0.79	12.46
	5.50	7.50	4000	220	28.43	116.46	3480	76.00	78.00	80.00	0.73	0.79	0.82	15.21
				380	16.95	68.85	3470	76.00	78.00	80.00	0.73	0.79	0.81	15.25
				460	13.50	54.59	3470	74.00	75.00	78.00	0.65	0.75	0.79	15.25
	7.50	10.00	4000	220	35.50	143.70	3475	75.00	77.00	80.00	0.72	0.77	0.82	20.61
				380	20.50	81.25	3470	74.50	77.50	79.50	0.72	0.77	0.81	21.05
				460	17.10	69.30	3470	74.50	77.50	79.50	0.70	0.78	0.80	21.05

6" Submersible Motor - Water filled

Material : Cast Iron / Stainless Steel 304

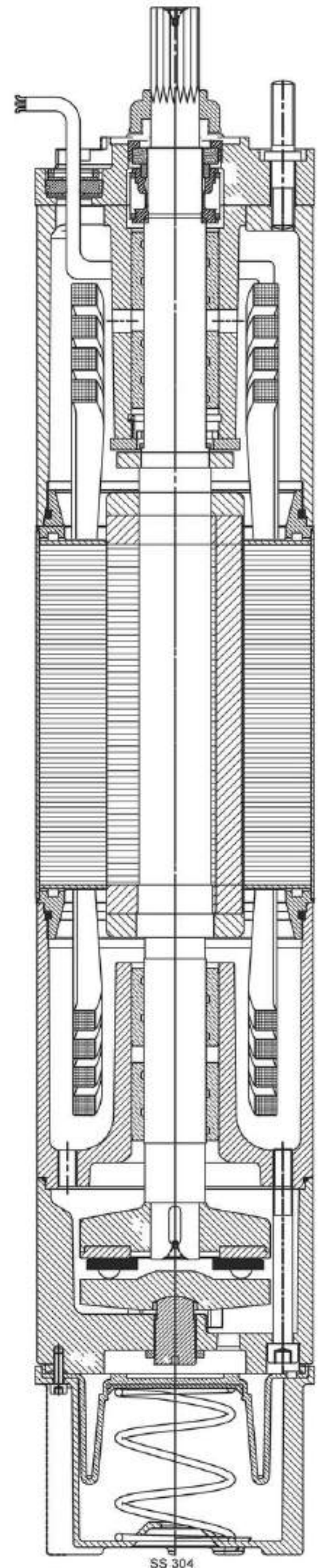
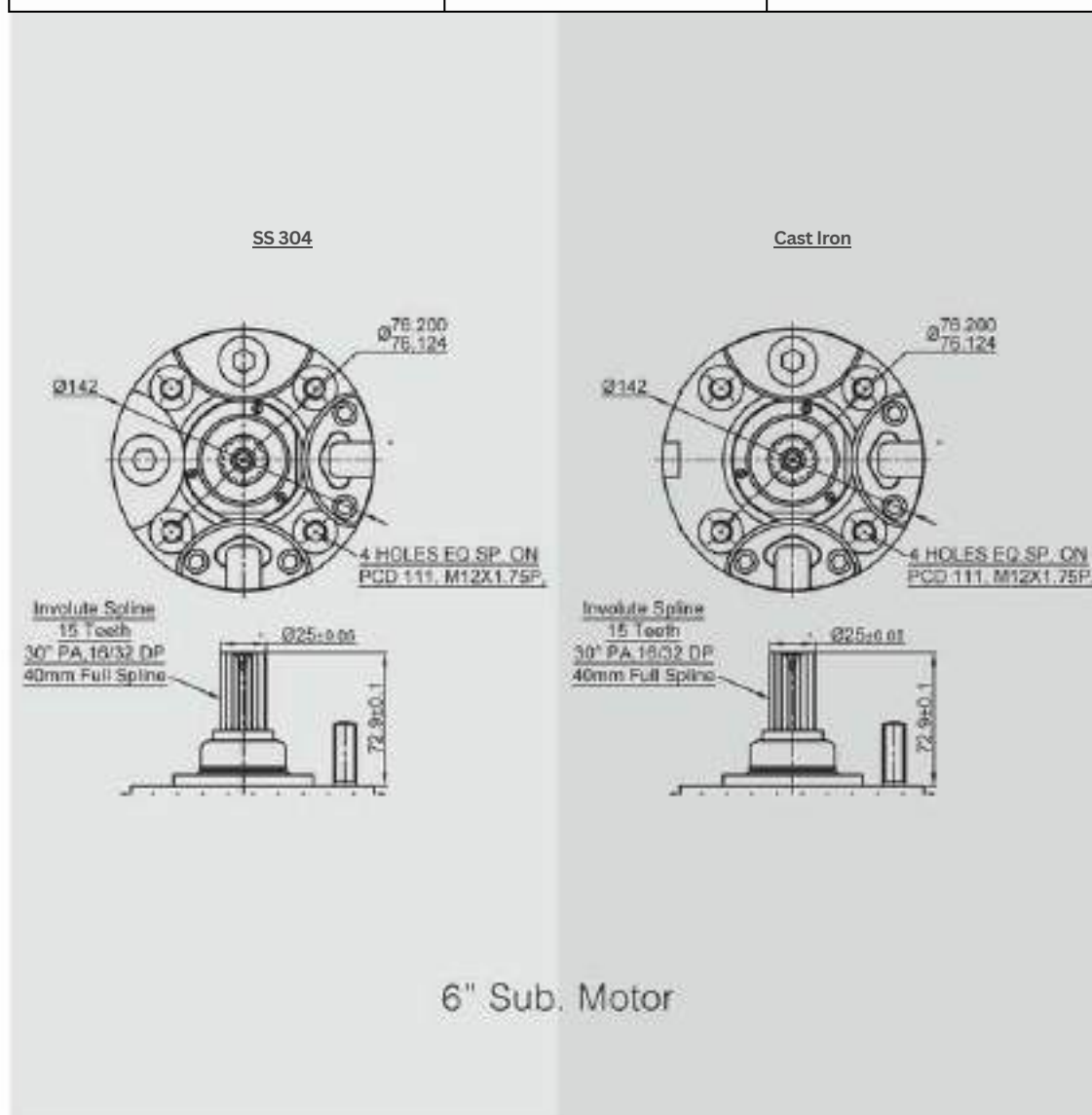
Rating : 7.5 - 45 kW (10 - 60 HP)

Type : Rewindable

Thrust Rating: 15500 - 27500 N

Material of Construction

Parts Name	Cast Iron	Stainless Steel 304
Rotor Shaft	Stainless Steel	Stainless Steel
Stator Body / Shell	AISI 304	AISI 304
Housing	FG 200 IS 210	AISI 304
Base Cover	FG 200 IS 210	AISI 304
Thrust Bearing Segment	AISI 420	AISI 420
Shaft Seal	Ceramic / Carbon	Ceramic / Carbon
Shaft END	Stainless Steel	AISI 630
Diaphragm	NBR	NBR
Bearing Bush	Graphite Carbon	Graphite Carbon
Lead Cable	Rubber / PVC	Rubber / PVC
Sand Guard	NBR	NBR
Hardware	Stainless Steel	Stainless Steel



6" Submersible Motor Performance Data - 50 Hz



Type	kW	HP	Thrust Load (N)	Volt	Amps FI	Amps Starting	RPM	Efficiency at % Load			Power Factor at % Load			T _N NM
								50%	75%	100%	50%	75%	100%	
V6	7.50	10.00	15500	380	16.92	71.89	2860	75.50	77.90	78.75	0.76	0.84	0.87	25.06
			15500	400	17.00	72.25	2870	76.25	78.75	79.50	0.75	0.84	0.86	24.97
			15500	415	17.43	74.06	2880	77.00	79.50	80.25	0.74	0.82	0.84	24.87
	9.30	12.50	15500	380	21.14	89.86	2860	73.50	77.40	78.50	0.62	0.77	0.83	31.07
			15500	400	21.25	90.31	2870	74.25	78.20	79.25	0.61	0.77	0.83	30.96
			15500	415	21.78	92.57	2880	75.00	79.00	80.00	0.60	0.75	0.81	30.84
	11.00	15.00	15500	380	25.37	107.83	2860	75.50	78.40	79.50	0.67	0.80	0.84	36.75
			15500	400	25.50	108.38	2870	76.25	79.20	80.25	0.66	0.80	0.84	36.62
			15500	415	26.14	111.08	2880	77.00	80.00	81.00	0.65	0.78	0.82	36.48
	13.00	17.50	15500	380	29.60	125.81	2860	76.45	78.40	79.50	0.77	0.83	0.86	43.43
			15500	400	29.75	126.44	2870	77.20	79.20	80.20	0.77	0.83	0.85	43.28
			15500	415	30.49	129.60	2880	78.00	80.00	81.00	0.75	0.81	0.83	43.12
	15.00	20.00	15500	380	33.83	143.78	2850	75.45	78.40	79.00	0.80	0.86	0.91	50.29
			15500	400	34.00	144.50	2860	76.23	79.20	79.50	0.80	0.85	0.90	50.11
			15500	415	34.85	148.11	2870	77.00	80.00	79.25	0.78	0.83	0.88	49.92
	18.50	25.00	15500	380	42.29	179.72	2850	74.50	78.40	80.00	0.66	0.78	0.83	62.02
			15500	400	42.50	180.63	2860	75.25	79.20	80.25	0.65	0.78	0.83	61.81
			15500	415	43.56	185.14	2870	76.00	80.00	81.00	0.64	0.76	0.81	61.57
	22.00	30.00	27500	380	50.75	215.67	2850	74.50	77.50	80.00	0.73	0.83	0.88	73.76
			27500	400	51.00	216.75	2860	74.50	78.25	80.50	0.72	0.83	0.87	73.50
			27500	415	52.28	222.17	2870	76.00	79.00	80.00	0.71	0.81	0.85	73.22
	26.00	35.00	27500	380	59.20	251.61	2850	75.50	79.45	80.00	0.62	0.77	0.83	87.17
			27500	400	59.50	252.88	2860	76.25	80.25	80.50	0.61	0.77	0.83	86.86
			27500	415	60.99	259.20	2870	77.00	81.00	81.00	0.60	0.75	0.81	86.53
	30.00	40.00	27500	380	67.66	287.56	2850	76.50	79.45	80.50	0.66	0.78	0.83	100.58
			27500	400	68.00	289.00	2860	77.20	80.25	81.00	0.65	0.78	0.83	100.23
			27500	415	69.70	296.23	2870	78.00	81.00	82.00	0.64	0.76	0.81	99.84
	37.00	50.00	27500	380	84.58	359.44	2850	77.40	80.00	80.75	0.72	0.80	0.84	124.05
			27500	400	85.00	361.25	2860	78.20	80.75	81.75	0.71	0.80	0.84	123.61
			27500	415	87.13	370.28	2870	79.00	81.50	82.50	0.70	0.78	0.82	123.14
	45.00	60.00	27500	380	101.49	431.33	2850	77.90	80.50	81.50	0.73	0.80	0.84	150.87
			27500	400	102.00	433.50	2860	78.75	81.25	82.25	0.72	0.80	0.84	150.34
			27500	415	104.55	444.34	2870	79.50	82.00	83.00	0.71	0.78	0.82	149.76

Performance values shown at 380V, 400V and 415V are for the same 50Hz, 400 V ±10% motor design, capable of operating within 360V – 440V. For reliable operation and to allow for normal voltage fluctuations, a nominal installation voltage between 380V and 415V is recommended.

6" Submersible Motor Performance Data - 60 Hz

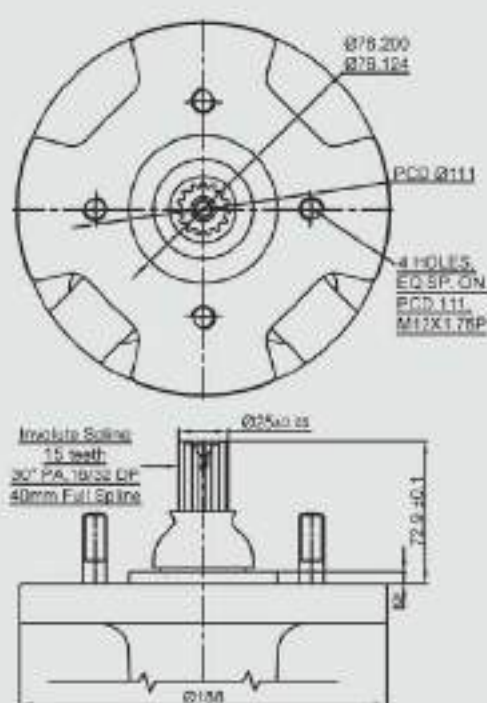
Type	kW	HP	Thrust Load (N)	Volt	Amps FI	Amps Starting	RPM	Efficiency at % Load			Power Factor at % Load			T _N NM
								50%	75%	100%	50%	75%	100%	
V6	7.50	10.00	15500	220	37.30	160.17	3480	77.00	78.00	80.00	0.74	0.81	0.82	20.74
				380	22.20	94.33	3470	77.00	78.00	80.00	0.76	0.82	0.83	20.80
				460	17.60	73.81	3470	76.00	77.00	79.00	0.78	0.83	0.84	20.80
	9.30	12.50	15500	220	46.00	204.83	3480	75.00	79.00	80.00	0.60	0.75	0.81	25.72
				380	27.38	120.46	3470	77.00	80.00	80.00	0.64	0.75	0.81	25.79
				460	21.63	93.28	3460	78.00	80.00	80.00	0.67	0.78	0.81	25.87
	11.00	15.00	15500	220	54.60	250.44	3480	77.00	80.00	81.00	0.65	0.78	0.82	30.42
				380	32.40	146.65	3480	77.00	81.00	81.00	0.62	0.74	0.80	30.42
				460	25.65	113.26	3470	78.00	81.00	80.00	0.68	0.77	0.82	30.51
	13.00	17.50	15500	220	63.18	297.17	3500	78.00	80.00	81.00	0.60	0.72	0.78	35.75
				380	37.45	173.65	3500	77.00	81.00	82.00	0.60	0.74	0.79	35.75
				460	29.58	133.16	3490	78.00	81.00	81.00	0.65	0.76	0.82	35.85
	15.00	20.00	15500	220	71.60	344.18	3490	80.00	83.00	83.00	0.78	0.78	0.88	41.37
				380	42.40	200.72	3480	81.00	83.00	83.00	0.66	0.77	0.82	41.48
				460	33.40	152.91	3480	80.00	83.00	83.00	0.68	0.78	0.84	41.48
	18.50	25.00	15500	220	88.50	441.30	3480	77.00	81.00	82.00	0.60	0.70	0.78	51.16
				380	52.25	256.14	3470	76.00	81.00	81.00	0.60	0.74	0.78	51.31
				460	41.25	194.39	3470	80.00	82.00	82.00	0.65	0.78	0.80	51.31
	22.00	30.00	27500	220	105.00	539.30	3500	82.00	84.00	84.00	0.65	0.74	0.77	60.50
				380	62.10	313.33	3500	82.00	84.00	84.00	0.67	0.75	0.78	60.50
				460	48.60	234.23	3485	83.00	84.00	84.00	0.72	0.79	0.82	60.76
	26.00	35.00	27500	220	121.45	639.69	3505	83.00	84.00	85.00	0.63	0.73	0.78	71.39
				380	71.75	370.86	3505	83.00	84.00	85.00	0.62	0.75	0.81	71.39
				460	56.00	275.19	3490	83.00	84.00	85.00	0.64	0.76	0.84	71.70
	30.00	40.00	27500	220	138.00	743.10	3510	80.00	82.00	84.00	0.60	0.72	0.79	82.26
				380	81.20	428.47	3510	80.00	82.00	84.00	0.64	0.75	0.81	82.26
				460	63.60	318.03	3495	81.00	83.00	84.00	0.65	0.76	0.82	82.61
	37.00	50.00	27500	220	170.00	949.05	3510	80.50	82.50	84.00	0.62	0.75	0.80	101.45
				380	100.00	546.34	3510	80.50	82.50	84.50	0.66	0.77	0.81	101.45
				460	78.00	401.10	3495	81.50	83.50	84.50	0.68	0.78	0.82	101.89
	45.00	60.00	27500	220	204.00	1071.00	3490	81.00	82.75	84.75	0.63	0.76	0.81	123.12
				380	120.00	630.00	3490	81.00	82.70	84.75	0.65	0.77	0.81	123.12
				460	93.60	491.40	3485	81.00	82.50	85.00	0.68	0.78	0.82	123.30

8" Submersible Motor - Water filled

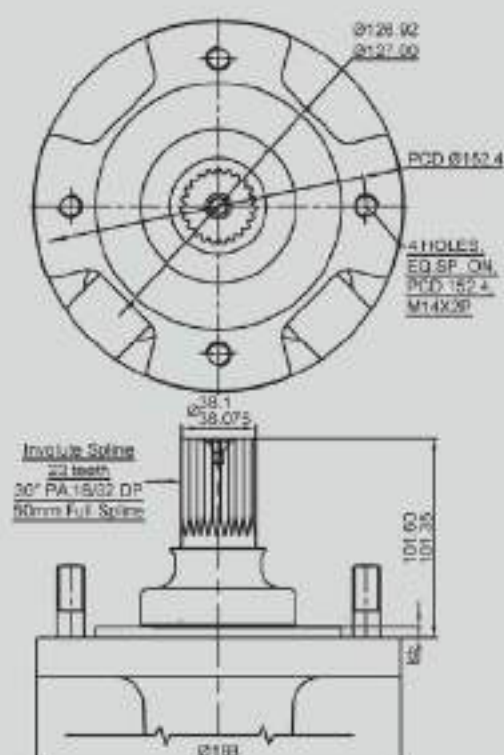
Material : Cast Iron / Stainless Steel 304
Rating : 8" Sub. Motor 37 - 110 kW (50 - 150 HP)
Type : Rewindable
Thrust Rating: 45000 - 55000 N

Material of Construction

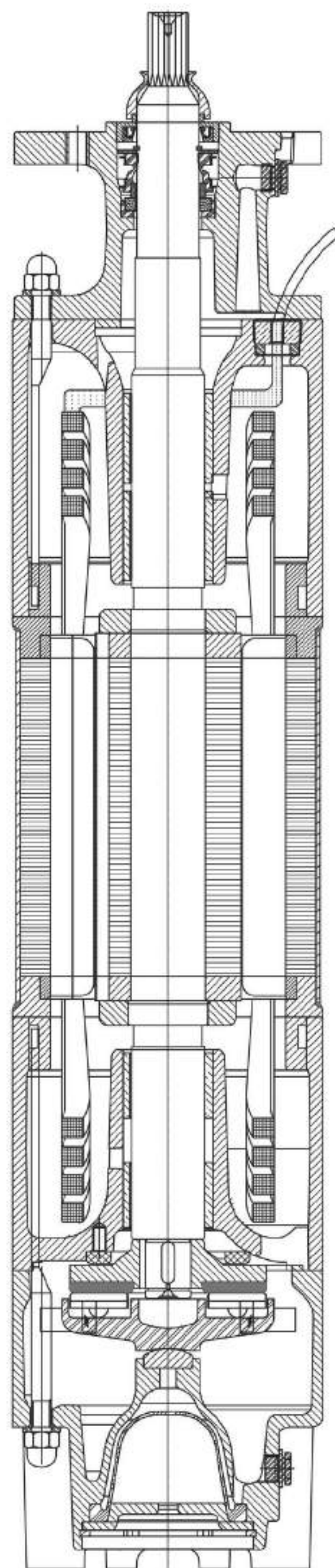
Parts Name	Cast Iron	Stainless Steel 304
Rotor Shaft	Stainless Steel	Stainless Steel
Stator Body / Shell	AISI 304	AISI 304
Housing	FG 200 IS 210	AISI 304
Base Cover	FG 200 IS 210	AISI 304
Thrust Bearing Segment	AISI 420	AISI 420
Shaft Seal	Ceramic / Carbon	Ceramic / Carbon
Shaft END	Stainless Steel	AISI 630
Diaphragm	NBR	NBR
Bearing Bush	Graphite Carbon	Graphite Carbon
Lead Cable	Rubber / PVC	Rubber / PVC
Sand Guard	NBR	NBR
Hardware	Stainless Steel	Stainless Steel



8" Sub. Motor
with 6" mounting



8" Sub. Motor
with 8" mounting



8" Submersible Motor Performance Data - 50 Hz



Type	kW	HP	Thrust Load (N)	Volt	Amps FI	Amps Starting	RPM	Efficiency at % Load			Power Factor at % Load			T _N NM
								50%	75%	100%	50%	75%	100%	
V8	37.00	50.00	45000	380	83	402	2882	78.60	80.60	81.20	0.73	0.83	0.85	122.67
				400	84	407	2885	78.95	81.00	81.60	0.73	0.84	0.86	122.54
				415	85	412	2890	79.00	81.00	81.50	0.72	0.83	0.85	122.33
	45.00	60.00	45000	380	100	485	2882	79.60	81.70	82.40	0.71	0.81	0.83	149.19
				400	101	490	2885	79.95	82.00	82.60	0.73	0.83	0.85	149.04
				415	102	494	2890	80.00	81.50	82.50	0.72	0.82	0.84	148.78
	52.00	70.00	55000	380	109	528	2882	81.05	83.20	83.80	0.70	0.80	0.82	172.40
				400	110	533	2885	81.45	83.60	84.20	0.72	0.82	0.84	172.22
				415	112	543	2890	81.50	83.50	84.50	0.71	0.82	0.82	171.92
	55.00	75.00	55000	380	116	562	2882	81.05	83.20	83.80	0.70	0.80	0.82	182.35
				400	118	572	2885	81.45	83.60	84.20	0.72	0.82	0.84	182.16
				415	120	582	2890	81.50	82.50	84.70	0.68	0.82	0.82	181.84
	60.0	80.00	55000	380	124	601	2882	80.65	82.70	83.40	0.70	0.80	0.82	198.92
				400	126	611	2885	81.05	83.20	83.80	0.72	0.82	0.84	198.72
				415	128	620	2890	81.10	82.30	84.50	0.69	0.81	0.82	198.37
	63.00	85.00	55000	380	132	640	2882	80.55	82.60	83.20	0.71	0.81	0.83	208.87
				400	134	649	2885	80.95	83.00	83.60	0.72	0.82	0.84	208.65
				415	136	659	2890	81.00	82.65	84.75	0.70	0.82	0.82	208.29
	67.00	90.00	55000	380	140	678	2882	80.55	82.60	83.20	0.71	0.81	0.83	222.13
				400	142	688	2885	80.95	83.00	83.60	0.72	0.82	0.84	221.90
				415	144	698	2890	81.00	82.50	85.00	0.72	0.82	0.81	221.52
	75.00	100.00	55000	380	146	707	2882	81.55	83.70	84.40	0.69	0.79	0.81	248.65
				400	148	717	2885	81.95	84.10	84.80	0.71	0.81	0.83	248.40
				415	150	727	2890	82.00	83.00	85.00	0.69	0.80	0.81	247.97
	82.00	110.00	55000	380	161	780	2882	80.75	82.80	83.40	0.70	0.80	0.82	271.86
				400	163	790	2885	81.15	83.30	84.00	0.72	0.82	0.84	271.58
				415	165	799	2890	81.20	83.20	85.00	0.70	0.81	0.81	271.11
	93.00	125.00	55000	380	182	882	2882	82.05	84.20	84.80	0.69	0.79	0.81	308.33
				400	185	896	2885	82.45	84.60	85.20	0.71	0.81	0.83	308.01
				415	187.5	908	2890	82.50	83.70	85.50	0.68	0.81	0.81	307.48
	110.00	150.00	55000	380	218	1056	2882	81.05	83.20	83.80	0.70	0.80	0.82	364.69
				400	221	1071	2885	81.45	83.60	84.20	0.72	0.82	0.84	364.31
				415	225	1090	2890	81.50	82.50	85.50	0.70	0.81	0.81	363.68

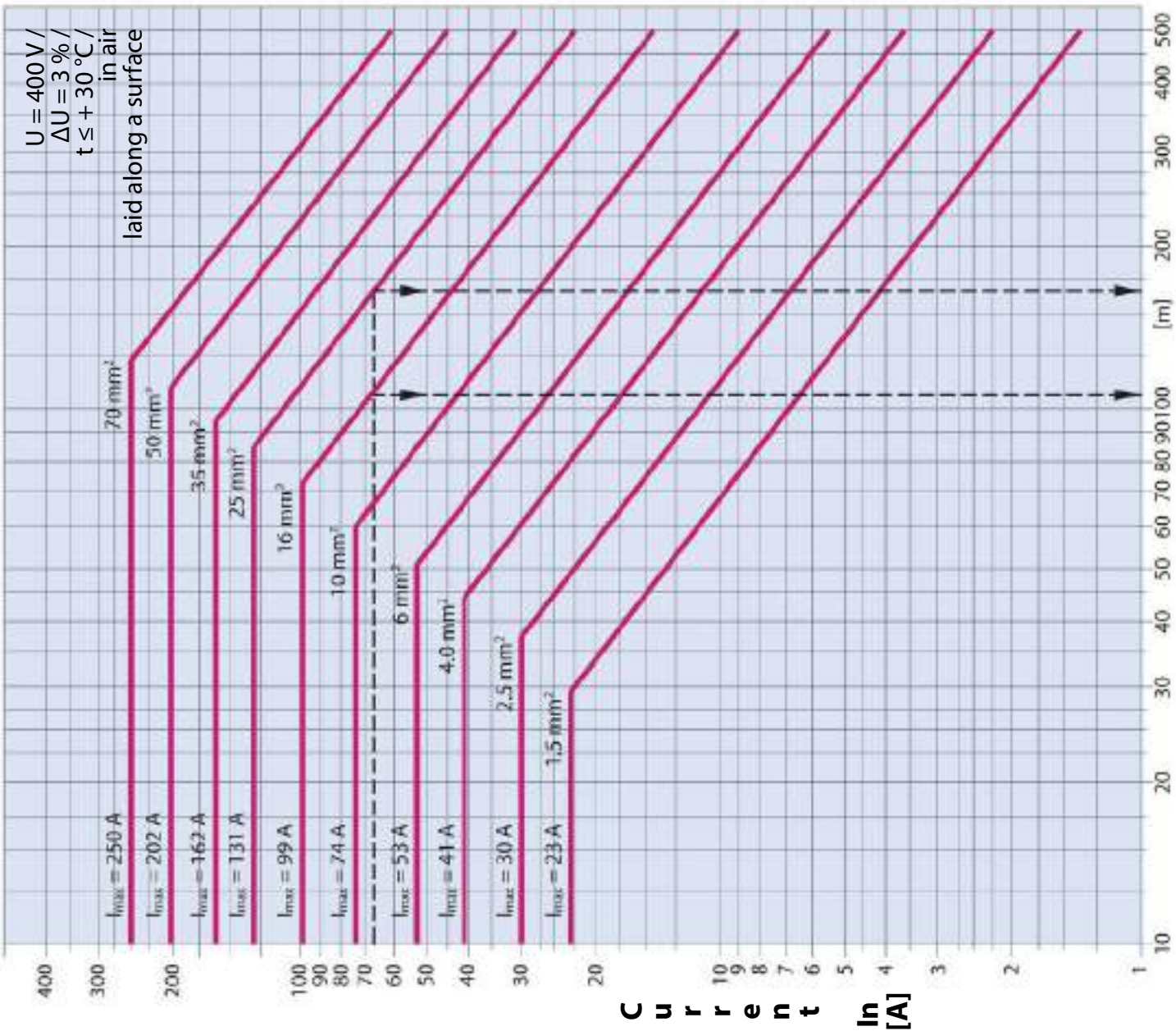
Performance values shown at 380V, 400V and 415V are for the same 50Hz, 400 V ±10% motor design, capable of operating within 360V – 440V. For reliable operation and to allow for normal voltage fluctuations, a nominal installation voltage between 380V and 415V is recommended.

8" Submersible Motor Performance Data - 60 Hz

Type	kW	HP	Thrust Load (N)	Volt	Amps FI	Amps Starting	RPM	Efficiency at % Load			Power Factor at % Load			T _N NM
								50%	75%	100%	50%	75%	100%	
V8	37.00	50.00	45000	220	170.00	949.05	3510	81.00	83.00	83.00	0.75	0.83	0.85	101.45
				380	100.00	546.34	3500	82.00	84.00	84.00	0.80	0.84	0.85	101.74
				460	78.00	401.10	3490	82.00	84.00	84.00	0.81	0.85	0.86	102.04
	45.00	60.00	45000	380	119.00	668.00	3500	83.00	85.00	85.00	0.73	0.78	0.84	123.74
				460	92.00	486.31	3500	84.00	86.00	86.00	0.77	0.81	0.85	123.74
	52.00	70.00	55000	380	136.00	748.00	3500	84.00	85.50	86.00	0.73	0.78	0.84	141.87
				460	106.00	551.00	3505	84.00	85.50	86.00	0.77	0.81	0.85	141.67
	55.00	75.00	55000	380	146.00	851.39	3510	84.00	85.00	86.00	0.70	0.80	0.84	150.81
				460	114.00	617.51	3510	85.00	86.00	85.00	0.74	0.82	0.86	150.81
	60.0	80.00	55000	380	156.00	873.00	3510	84.50	85.50	86.00	0.70	0.80	0.84	163.23
				460	122.00	634.00	3515	84.50	85.50	86.00	0.74	0.82	0.86	163.00
	63.00	85.00	55000	380	166.00	913.00	3515	85.00	86.00	86.50	0.77	0.84	0.86	171.15
				460	129.00	670.00	3515	85.00	86.00	86.50	0.77	0.84	0.85	171.15
	67.00	90.00	55000	380	172.00	997.00	3500	85.00	86.00	87.00	0.74	0.82	0.86	182.80
				460	133.00	832.00	3505	85.00	86.00	87.00	0.77	0.84	0.85	182.53
	75.00	100.00	55000	380	191.00	1160.00	3490	85.00	86.00	87.00	0.77	0.84	0.86	206.83
				460	148.00	830.00	3495	85.00	87.00	86.00	0.77	0.84	0.85	206.53
	82.00	110.00	55000	380	210.00	1172.00	3490	85.00	86.00	87.00	0.79	0.86	0.88	224.36
				460	163.00	880.00	3490	85.00	86.00	87.00	0.80	0.83	0.85	224.36
	93.00	125.00	55000	380	236.00	1490.00	3490	85.00	87.00	87.00	0.79	0.86	0.88	256.47
				460	182.00	1054.00	3490	85.00	88.00	87.00	0.80	0.83	0.85	256.47
	110.00	150.00	55000	380	270.00	1593.00	3490	85.00	88.00	87.00	0.79	0.86	0.88	300.97
				460	210.00	1176.00	3495	85.00	88.00	87.00	0.80	0.83	0.85	300.54

Submersible cable Selection chart - DOL

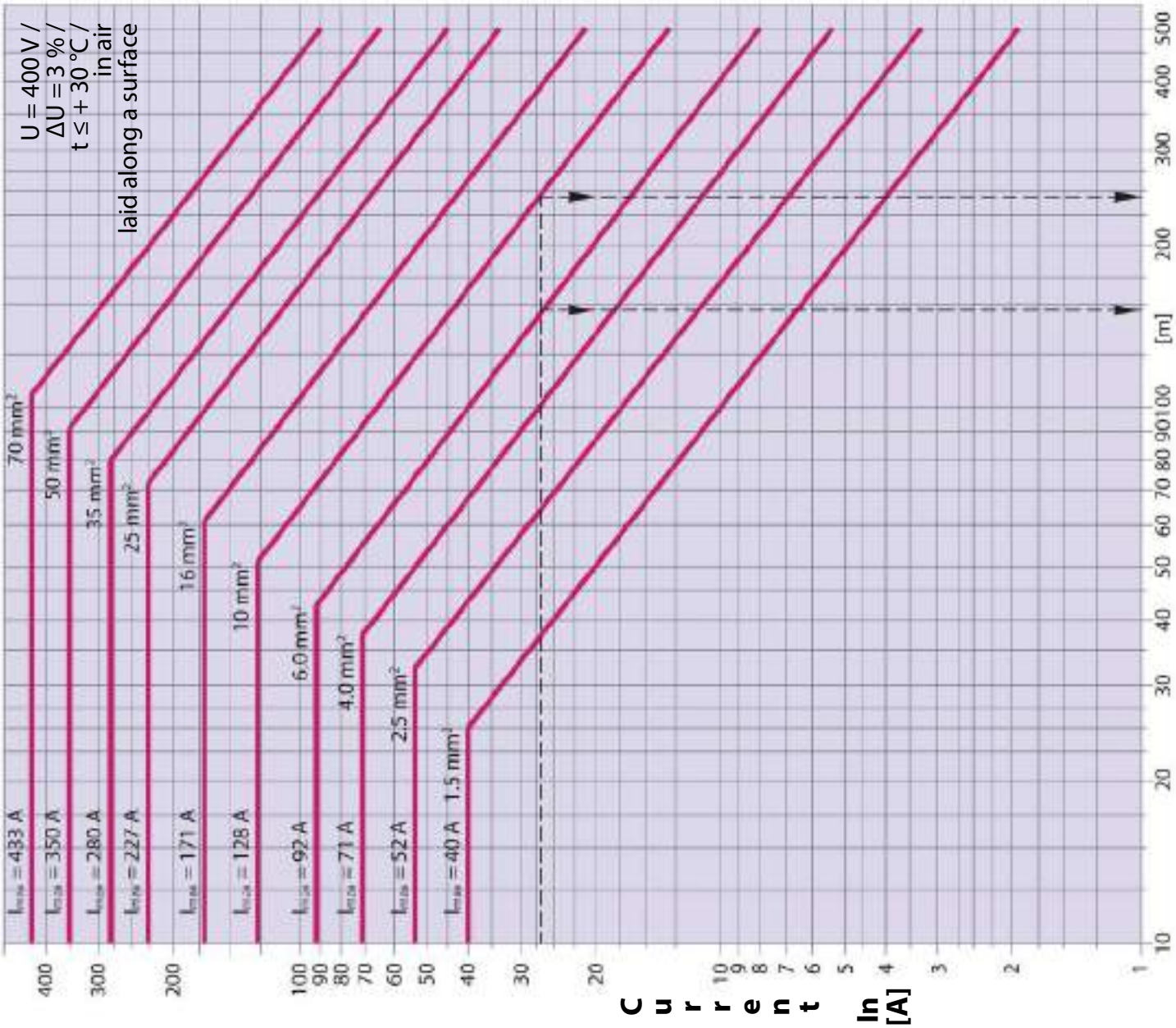
Permissible Cable Length L
D.O.L. Starting
(1 Cable or 2 Cable in parallel)



Example:
a) $I_N = 68\text{ A}$, $1 \times 16\text{ mm}^2$, $\Delta U \leq 3\%$ $\rightarrow L \leq 105\text{ m}$
b) $I_N = 68\text{ A}$, $1 \times 25\text{ mm}^2$, $\Delta U \leq 3\%$ $\rightarrow L \leq 165\text{ m}$
 I_N = motor current resulting from actual voltage
For supply voltage other than 400 V, the cable lengths must be calculated as follows,
for eg.: $U_1 = 400\text{ V}$, $L_1 = 105\text{ m}$, $U_2 = 500\text{ V} \rightarrow L_2 = (U_2 : U_1) \times L_1 = (500\text{ V} : 400\text{ V}) \times 105\text{ m} = 131.3\text{ m}$
for **parallel cables** the value is doubled to obtain the permissible length.

Submersible cable Selection chart - STAR / DELTA

Permissible Cable Length L
Y-Δ Starting
(2 Cable)



Example:
a) $I_N = 27\text{ A}$, $2 \times 6\text{ mm}^2$, $\Delta U \leq 3\%$ $\rightarrow L \leq 145\text{ m}$
b) $I_N = 27\text{ A}$, $2 \times 10\text{ mm}^2$, $\Delta U \leq 3\%$ $\rightarrow L \leq 235\text{ m}$
 I_N = motor current resulting from actual voltage
For supply voltage other than 400 V, the cable lengths must be calculated as follows,
for eg.: $U_1 = 400\text{ V}$, $L_1 = 145\text{ m}$, $U_2 = 500\text{ V} \rightarrow L_2 = (U_2 : U_1) \times L_1 = (500\text{ V} : 400\text{ V}) \times 145\text{ m} = 181.3\text{ m}$

Awards & Accolades

“SABAR” has been Awarded 28 Times **For (National Award-10 Times & Regional Award-18 Times)** **for Export Excellence**

from the EEPC (Engineering Export Promotion Council)
 under the Ministry of Commerce,
 Government of India (Medium Enterprise).



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For Selected Models Only



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