



Specifications

- Submersible borehole pump
- Closed impellers, face clearance type
- Standard 4" NEMA motor coupling
- Operating speed: 2 pole
- Type of liquid: Clean Water
- Maximum liquid temperature: 35 °C
- Maximum sand content: 50 ppm
- Maximum chlorine ion density: 500 ppm

Materials

- Impellers: Ixef[®] (Glass filled Polyarylimide)
- Intermediate casings: 304 Stainless Steel
- Diffusers: Glass filled PPO (Poly-phenylene oxide)
- Discharge casing: Cast 304 Stainless Steel
- Check valve: 304 Stainless Steel
- Shaft: 304 Stainless Steel
- Motor Bracket: Cast 304 Stainless Steel
- Bearing: Ceramic / EPDM

Range

- G1¼" for 4N1, 4N2 & 4N4 models
- G2" for 4N7, 4N10 & 4N15 models

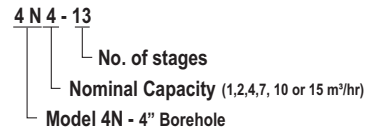
Supply

- Supplied as pump end only
- Water filled Ebara 4WP motors available



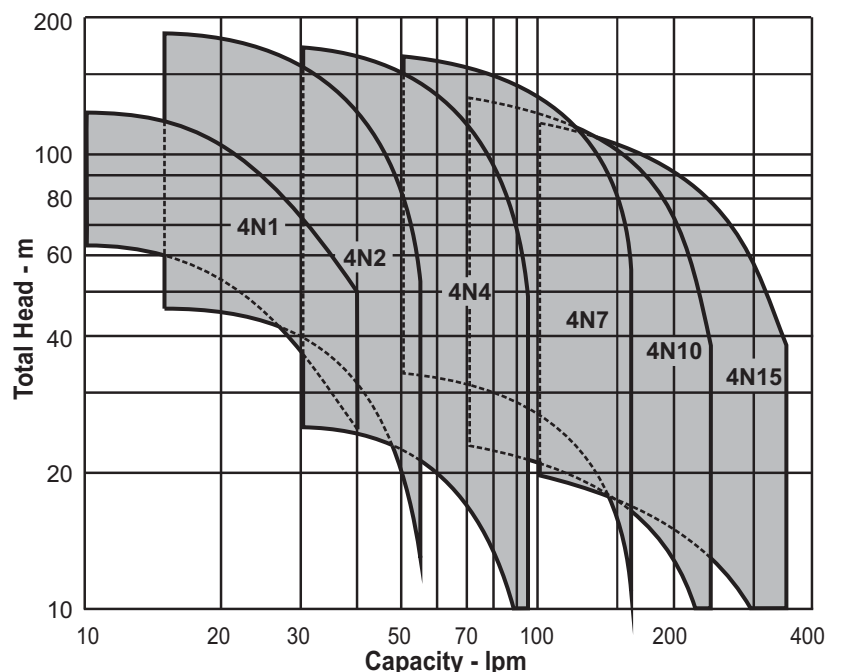
Ebara 4WP
water filled motors

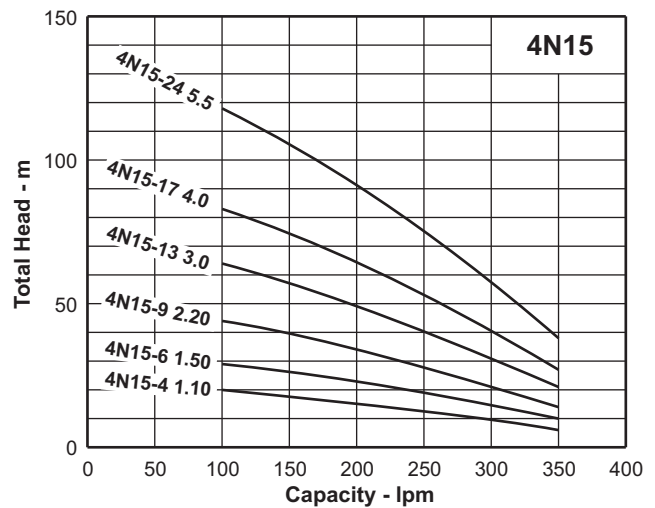
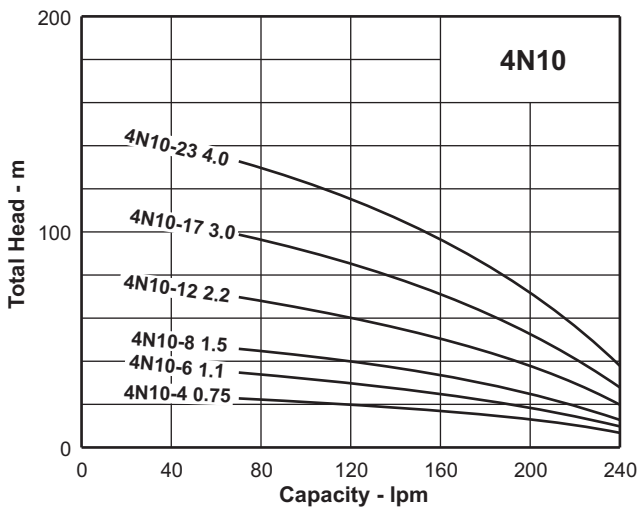
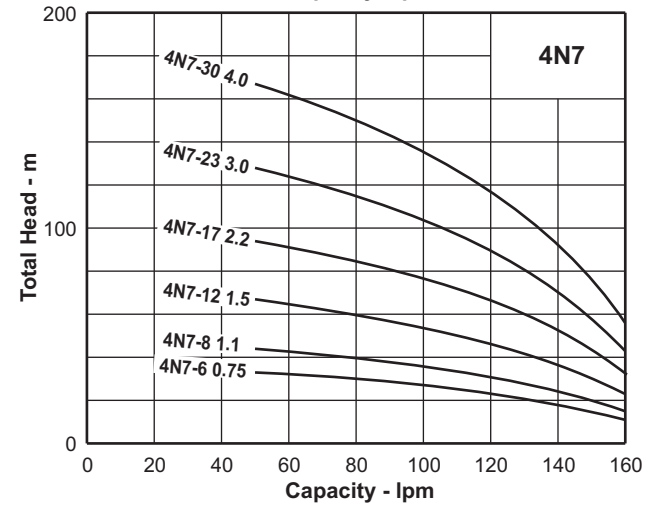
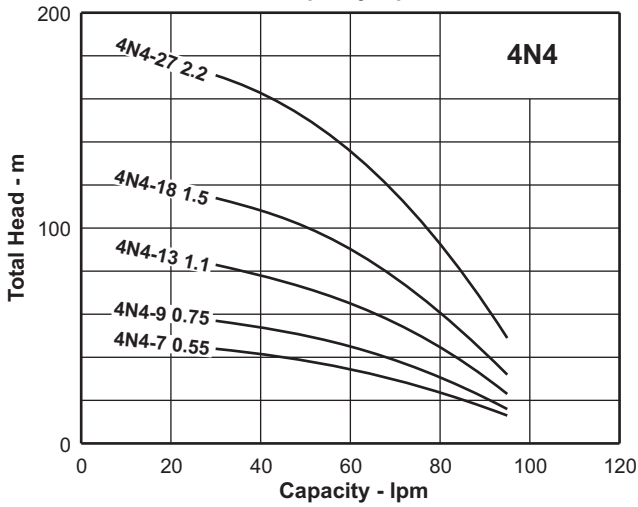
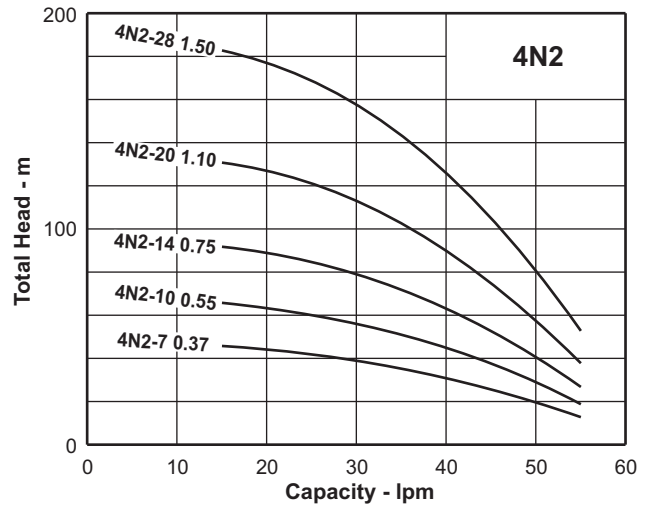
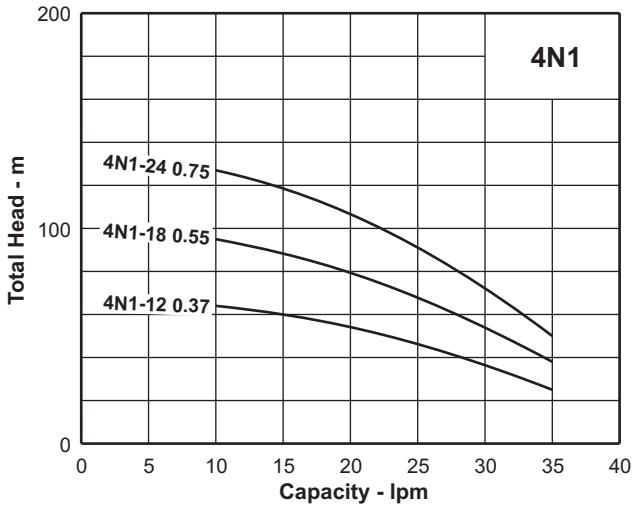
Model Code



Ebara 4WP Motor Data

- Water filled motors
- 2 pole, 50 Hz
- 304 Stainless Steel
- 4" NEMA flange
- IP68 protection
- 230 Volt Single Phase - 0.37 to 3.7 kW
- 400 Volt Three Phase - 0.37 to 5.5 kW
- Maximum submergence: 150 m
- Maximum temperature: 35 °C
- Starts per hour: 30

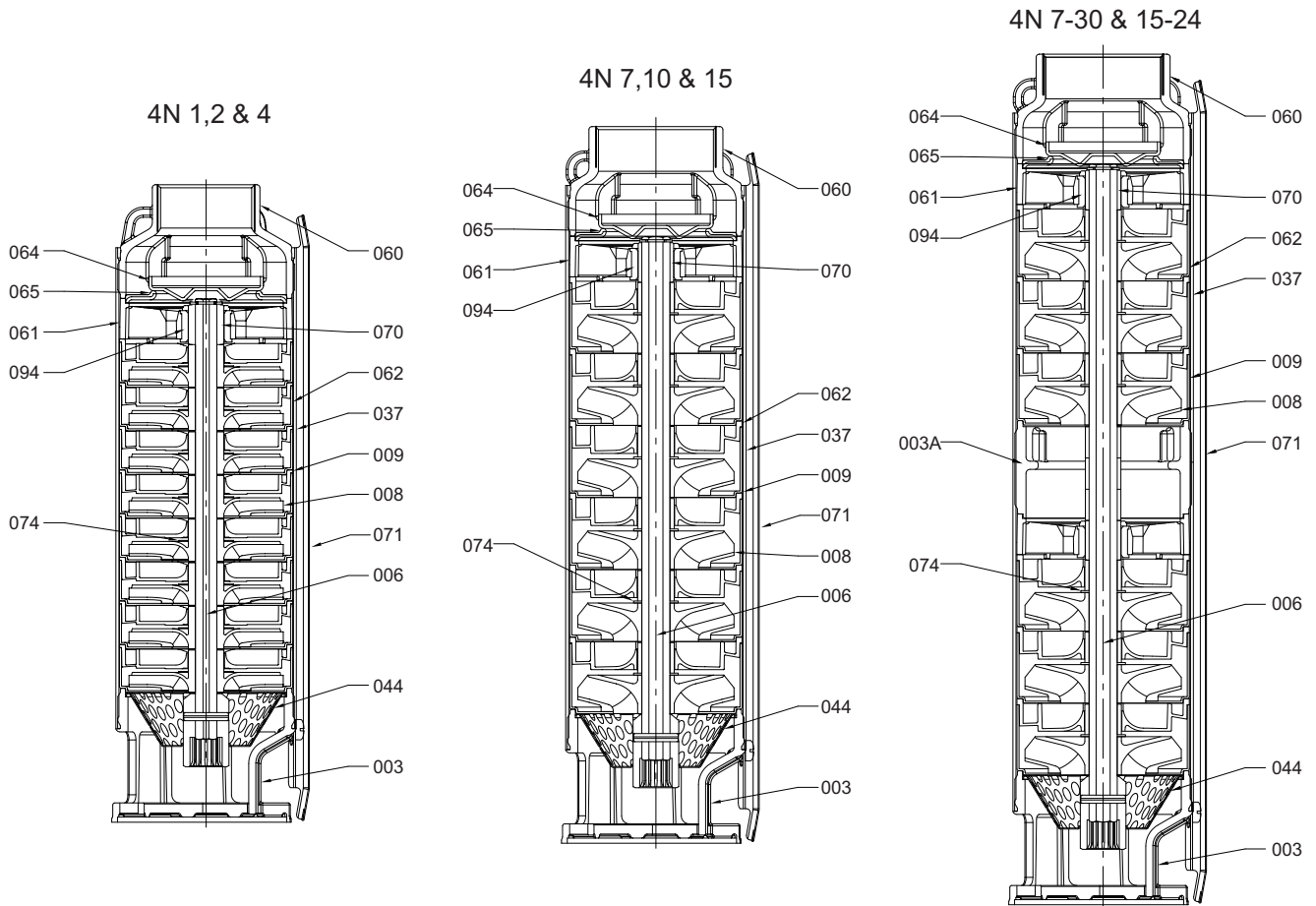




Pump Model	Motor		Capacity - lpm											
			0	10	15	20	25	30	35	45	55	75	95	
	kW	HP	Total Head - m											
4N1-12	0.37	0.5	67	64	60	54	46	36	25	-	-	-	-	
4N1-18	0.55	0.7	100	95	89	80	68	54	38	-	-	-	-	
4N1-24	0.75	1.0	133	127	119	107	91	72	50	-	-	-	-	
4N2-7	0.37	0.5	49	-	46	44	42	40	36	26	13	-	-	
4N2-10	0.55	0.7	69	-	66	63	60	57	52	38	19	-	-	
4N2-14	0.75	1.0	97	-	92	89	85	79	72	53	27	-	-	
4N2-20	1.10	1.5	139	-	131	127	121	113	103	75	38	-	-	
4N2-28	1.50	2.0	194	-	183	178	169	158	144	105	53	-	-	
4N4-7	0.55	0.7	49	-	-	-	-	44	43	41	37	27	13	
4N4-9	0.75	1.0	63	-	-	-	-	57	56	52	48	35	16	
4N4-13	1.10	1.5	90	-	-	-	-	83	80	75	69	51	23	
4N4-18	1.50	2.0	125	-	-	-	-	114	111	104	96	70	32	
4N4-27	2.20	3.0	188	-	-	-	-	171	167	157	144	105	49	

Pump Model	Motor		Capacity - lpm										
	kW	HP	0	50	70	100	130	160	200	240	280	320	350
			Total Head - m										
4N7-6	0,75	1,0	37	33	31	27	21	11	-	-	-	-	-
4N7-8	1,10	1,5	50	44	42	36	28	15	-	-	-	-	-
4N7-12	1,50	2,0	74	67	62	54	42	23	-	-	-	-	-
4N7-17	2,20	3,0	105	94	88	77	60	32	-	-	-	-	-
4N7-23	3,00	4,0	143	128	120	104	81	43	-	-	-	-	-
4N7-30	4,00	5,5	186	167	156	136	105	56	-	-	-	-	-
4N10-4	0,75	1,0	26	-	23	21	19	17	13	7	-	-	-
4N10-6	1,10	1,5	39	-	35	32	29	25	19	10	-	-	-
4N10-8	1,50	2,0	52	-	46	43	39	34	25	13	-	-	-
4N10-12	2,20	3,0	78	-	70	64	58	51	38	20	-	-	-
4N10-17	3,00	4,0	111	-	99	91	82	72	53	28	-	-	-
4N10-23	4,00	5,5	150	-	133	123	111	97	72	38	-	-	-
4N15-4	1,10	1,5	22	-	-	20	18	17	15	13	11	8	6
4N15-6	1,50	2,0	33	-	-	29	28	26	23	20	16	13	10
4N15-9	2,20	3,0	50	-	-	44	41	39	34	29	24	19	14
4N15-13	3,00	4,0	72	-	-	64	60	56	49	43	35	27	21
4N15-17	4,00	5,5	94	-	-	83	78	73	64	56	46	36	27
4N15-24	5,50	7,5	133	-	-	118	110	103	91	78	65	50	38

Sectional Drawing



No.	Description	Material	Qty.	No.	Description	Material	Qty.
003	Bracket	304 Stainless Steel (Cast)	1	061	Upper/Inter.bracket	PPO - Glass filled	1 (or 2)*
003A	Join ring	304 Stainless Steel (Cast)	1#	062	Stage housing	304 Stainless Steel	N
006	Pump shaft <small>(with coupling)</small>	304 Stainless Steel	1	064	Valve housing	304 Stainless Steel	1
008	Impeller	Ixef®	N	065	Valve seat	EPDM & 304 Stainless Steel	1
009	Diffuser	PPO - Glass filled	N	070	Shaft sleeve bearing	Ceramic (alumina)	1 (or 2)*
037	Outer casing	304 Stainless Steel	1 (or 2)*	071	Cable guard	304 Stainless Steel	1
044	Strainer	304 Stainless Steel	1	074	Thrust washer	304 Stainless Steel	N
060	Discharge casing	304 Stainless Steel (Cast)	1	094	Bearing	EPDM	1 (or 2)*

PPO = Poly-phenylene oxide

Ixef® = Glass filled Polyarylimide

N = Number of stages

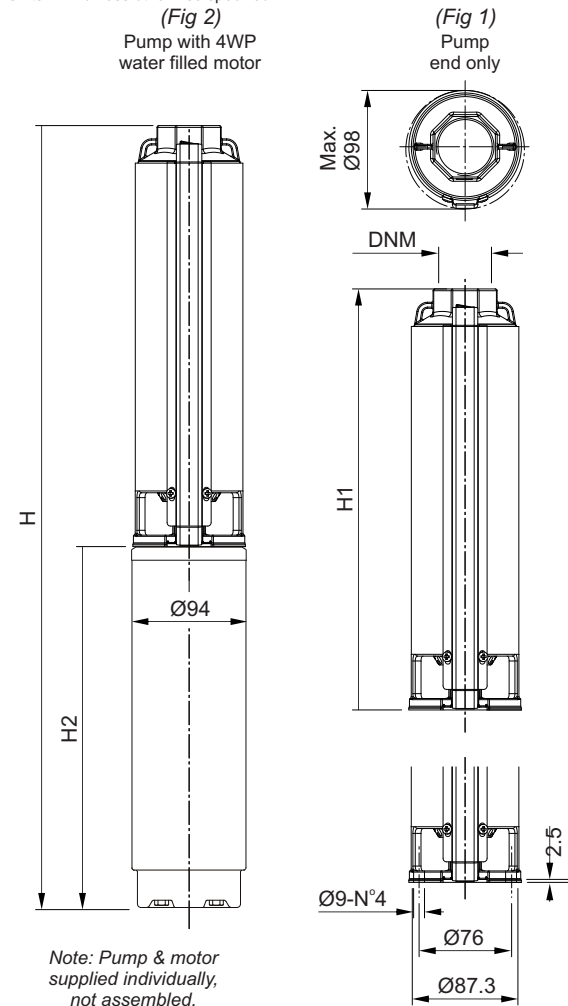
- only 4N7-30 & 4N15-24

* - 2 for 4N7-30 & 4N15-24

Dimensions

Model **4N**

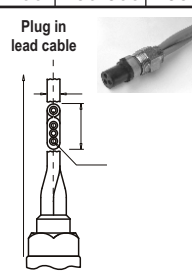
Units: mm unless otherwise specified



Pump Model	Required Motor Power		Pump end only (Fig 1)			Pump with water filled motor (Fig 2)			
	kW	HP	H1 (mm)	DNM	Weight	Single Phase H2 (mm)	Three Phase H (mm)	Single Phase H2 (mm)	Three Phase H (mm)
4N1-12	0,37	0,5	332	G 1 1/4"	3,7 kg	250	582	235	567
4N1-18	0,55	0,75	437	G 1 1/4"	4,8 kg	265	702	250	687
4N1-24	0,75	1	542	G 1 1/4"	5,9 kg	295	837	265	807
4N2-7	0,37	0,5	245	G 1 1/4"	3,8 kg	250	495	235	480
4N2-10	0,55	0,75	297	G 1 1/4"	4,1 kg	265	562	250	547
4N2-14	0,75	1	367	G 1 1/4"	4,4 kg	295	662	265	632
4N2-20	1,1	1,5	472	G 1 1/4"	5,3 kg	340	812	295	767
4N2-28	1,5	2	612	G 1 1/4"	6,7 kg	375	987	340	952
4N4-7	0,55	0,75	273	G 1 1/4"	3,0 kg	265	538	250	523
4N4-9	0,75	1	316	G 1 1/4"	3,4 kg	295	611	265	581
4N4-13	1,1	1,5	402	G 1 1/4"	4,3 kg	340	742	295	697
4N4-18	1,5	2	509	G 1 1/4"	5,4 kg	375	884	340	849
4N4-27	2,2	3	703	G 1 1/4"	7,3 kg	430	1133	375	1078
4N7-6	0,75	1	333	G 2"	3,5 kg	295	628	265	598
4N7-8	1,1	1,5	404	G 2"	4,0 kg	340	744	295	699
4N7-12	1,5	2	546	G 2"	5,5 kg	375	921	340	886
4N7-17	2,2	3	724	G 2"	7,1 kg	430	1154	375	1099
4N7-23	3	4	937	G 2"	9,0 kg	-	-	480	1417
4N7-30	4	5,5	1251	G 2"	12,8 kg	-	-	555	1806
4N10-4	0,75	1	262	G 2"	3,0 kg	295	557	265	527
4N10-6	1,1	1,5	333	G 2"	3,6 kg	340	673	295	628
4N10-8	1,5	2	404	G 2"	4,1 kg	375	779	340	744
4N10-12	2,2	3	546	G 2"	5,5 kg	430	976	375	921
4N10-17	3	4	724	G 2"	7,3 kg	-	-	480	1204
4N10-23	4	5,5	937	G 2"	9,0 kg	-	-	555	1492
4N15-4	1,1	1,5	440	G 2"	4,5 kg	340	780	295	735
4N15-6	1,5	2	600	G 2"	5,5 kg	375	975	340	940
4N15-9	2,2	3	840	G 2"	7,0 kg	430	1270	375	1215
4N15-13	3	4	1160	G 2"	10,0 kg	-	-	480	1640
4N15-17	4	5,5	1480	G 2"	12,0 kg	-	-	555	2035
4N15-24	5,5	7,5	2106	G 2"	20,0 kg	-	-	675	2781

Motor

Type **Ebara "4WP"**

	Motor Model	Motor Output		Thrust Load (N)	Dimensions		Cable Data			Electrical Data & Speed					CSCR Data							
		kW	hp		H (mm)	Weight (kg)	Sept. (mm ²)	A (mm)	B (mm)	L (m)	In (Amp)	Istart (Amp)	Speed (rpm)	PF (Cosφ)	Eff. η (%)	Crun (μF)	Cstart (μF)	O/Load (Amp)				
Single Phase - 230V / 50 Hz	4WP 050M	0.37	0.50	1500	250	6.8	1.5	5.6	18.8	1.75	3.4	11.0	2850	0.91	58	16	36-43	4				
	4WP 075M	0.55	0.75		265	8.1					4.4	16.6	2840	0.92	62	20	72-86	6				
	4WP 100M	0.75	1.0		295	10.6					5.9	19.8	2860	0.94	65	30	88-106	7				
	4WP 150M	1.1	1.5	3000	340	11.2					2.5	5.6	18.8	2.5	7.8	29.5	2850	0.94	66	40	88-106	12
	4WP 200M	1.5	2.0		375	14.0									10.2	36.4	2850	0.95	68	50	130-156	15
	4WP 300M	2.2	3.0		430	16.4									15.0	52.5	2840	0.94	69	70	189-227	18
	4WP 500M	3.7	5.0		675	29.4									24.0	102	2840	0.92	72	100	250-300	35
Three Phase - 400V / 50 Hz	4WP 050T	0.37	0.50	1500	235	5.8	1.5	5.6	18.8	1.75					1.2	5.1	2840	0.73	63			
	4WP 075T	0.55	0.75		250	8.1									1.7	6.5	2840	0.73	64			
	4WP 100T	0.75	1.0		265	10.6									2.2	9.2	2840	0.75	67			
	4WP 150T	1.1	1.5	295	11.2	3.0					14.2	2840	0.76	71								
	4WP 200T	1.5	2.0	3000	340	14.0					2.5	5.6	18.8	2.5	4.0	18.5	2830	0.78	72			
	4WP 300T	2.2	3.0		375	16.4									5.6	26.5	2830	0.79	74			
	4WP 400T	3.0	4.0		480	18.3									7.5	34.3	2830	0.79	76			
	4WP 550T	4.0	5.5		6500	555									23.4	10.1	44	2840	0.77			
	4WP 750T	5.5	7.5	675		29.4									13.6	62	2840	0.80	76			

Single phase motors require a starter box with overload. CSCR starters with inbuilt overload and switch are available.



All motors supplied with a motor lead as per table:-

Specifications subject to change without notice