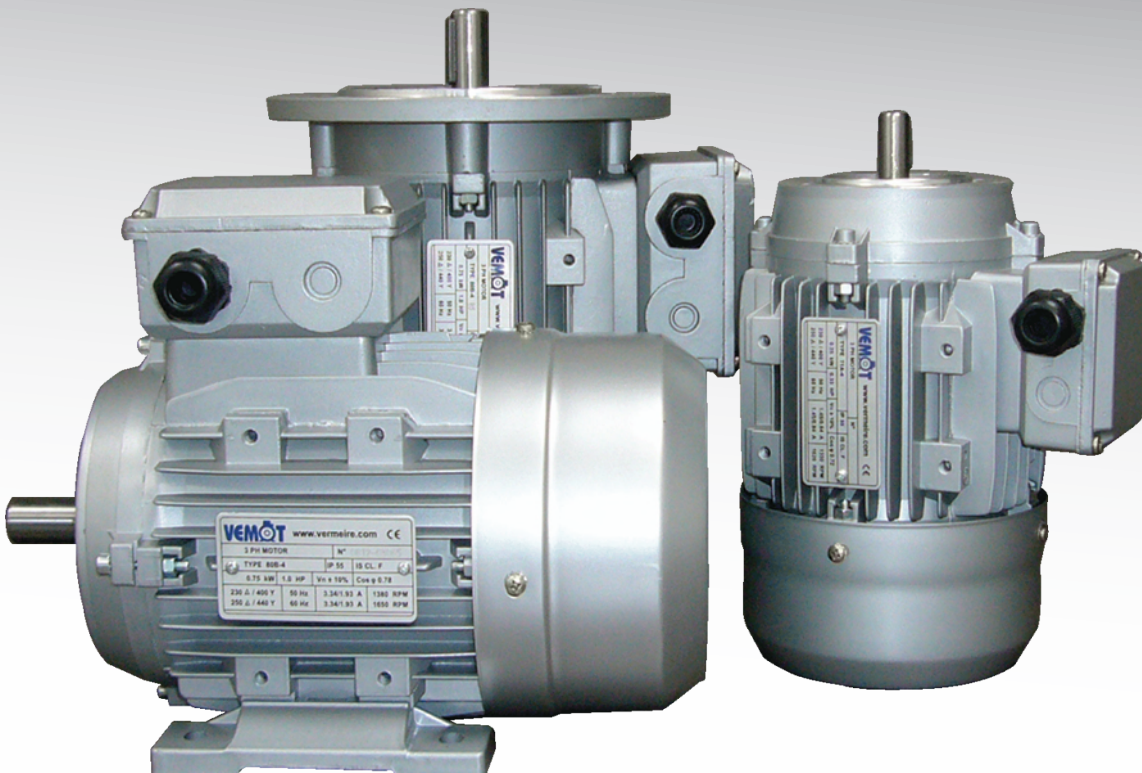




Vermeire belting



VEMOT

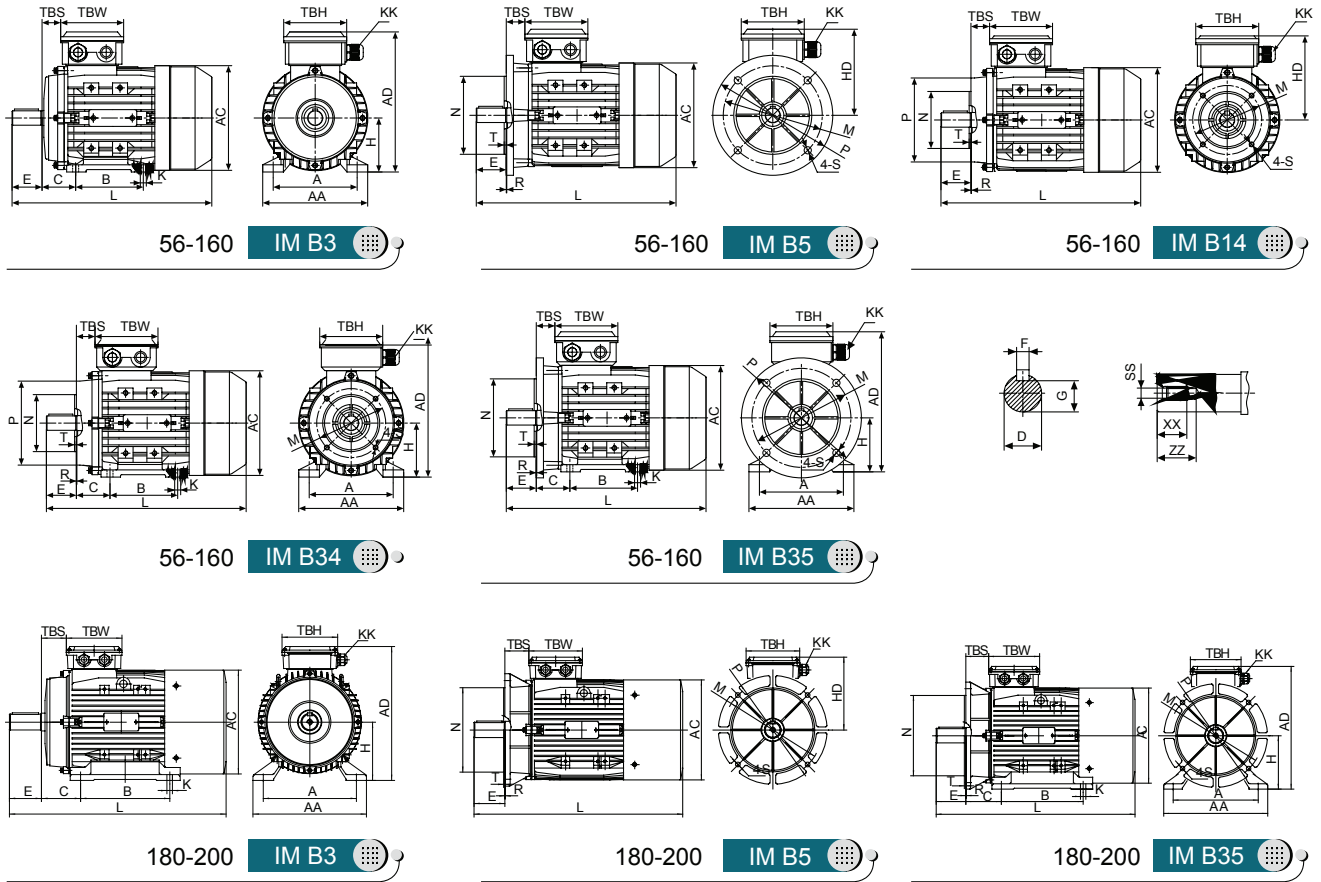


VEMOT

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1. MS SERIES (Aluminium Housing)

1.1 MS/MSD Series Dimensional Drawings



Overall & Installation Dimension

FRAME	Foot Mounting				Shaft								General							
	H	A	B	C	D	E	F	G	K	SS	XX	ZZ	AA	AD	HD	AC	L	TBS	TBW	TBH
56	56	90	71	36	Φ9	20	3	7.2	5.8*8.8	M4	9	12	110	152	96	Φ110	193	14	88	88
63	63	100	80	40	Φ11	23	4	8.5	7*10	M4	10	14	124	169	106	Φ121	217	14	94	94
71 ^{**}	71	112	90	45	Φ14	30	5	11	7*10	M5	12	17	140	184	113	Φ139	241(255)	20	94	94
80	80	125	100	50	Φ19	40	6	15.5	10*13	M6	16	21	160	211	131	Φ156	290	27	105	105
90S	90	140	100	56	Φ24	50	8	20	10*13	M8	19	25	175	228	138	Φ175	310	30	105	105
90L1/L2	90	140	125	56	Φ24	50	8	20	10*13	M8	19	25	175	228	138	Φ175	335/365	30	105	105
100 ^{**}	100	160	140	63	Φ28	60	8	24	12*15	M10	22	30	200	248	148	Φ196	368(386)	26	105	105
112	112	190	140	70	Φ28	60	8	24	12*15	M10	22	30	230	278	166	Φ221	470	32	112	112
132S	132	216	140	89	Φ38	80	10	33	12*15	M12	28	37	255	316	184	Φ256	524	38	112	112
132M/L	132	216	178	89	Φ38	80	10	33	12*15	M12	28	37	255	316	184	Φ256	562/588	38	112	112
160M/L	160	254	210/254	108	Φ42	110	12	37	15*19	M16	36	45	314	282	222	Φ313	705	64	143	143
180M/L	180	279	241/279	121	Φ48	110	14	42.5	15*25	M16	36	45	340	440	260	Φ354	730	73	190	190
200L	200	318	305	133	Φ55	110	16	49	19*29	M20	42	53	390	460	260	Φ354	745	85	190	190

FRAME	KK	B5						B14						B5R						B14B					
		N	M	P	S	T	R	N	M	P	S	T	R	N	M	P	T	S	R	N	M	P	T	S	R
56	1-M16*1.5	Φ80	Φ100	Φ120	Φ7	3	0	Φ50	Φ65	Φ80	M5	2.5	0												
63	1-M16*1.5	Φ95	Φ115	Φ140	Φ10	3	0	Φ60	Φ75	Φ90	M5	2.5	0												
71	1-M20*1.5	Φ110	Φ130	Φ160	Φ10	3.5	0	Φ70	Φ85	Φ105	M6	2.5	0	Φ95	Φ115	Φ140	3	Φ10	0	Φ95	Φ115	Φ140	3	M8	0
80	1-M20*1.5	Φ130	Φ165	Φ200	Φ12	3.5	0	Φ80	Φ100	Φ120	M6	3	0	Φ110	Φ130	Φ160	3.5	Φ10	0	Φ110	Φ130	Φ160	3.5	M8	0
90	1-M20*1.5	Φ130	Φ165	Φ200	Φ12	3.5	0	Φ95	Φ115	Φ140	M8	3	0	Φ110	Φ130	Φ160	3.5	Φ10	0	Φ110	Φ130	Φ160	3.5	M8	0
100	2-M20*1.5	Φ180	Φ215	Φ250	Φ15	4	0	Φ110	Φ130	Φ160	M8	3.5	0	Φ130	Φ165	Φ200	3.5	Φ12	0	Φ130	Φ165	Φ200	3.5	M10	0
112	2-M25*1.5	Φ180	Φ215	Φ250	Φ15	4	0	Φ110	Φ130	Φ160	M8	3.5	0	Φ130	Φ165	Φ200	3.5	Φ12	0	Φ130	Φ165	Φ200	3.5	M10	0
132	2-M25*1.5	Φ230	Φ265	Φ300	Φ15	4	0	Φ130	Φ165	Φ200	M10	3.5	0	Φ180	Φ215	Φ250	4	Φ15	0	Φ180	Φ215	Φ250	4	M12	0
160	2-M32*1.5	Φ250	Φ300	Φ350	Φ19	5	0	Φ180	Φ215	Φ250	M12	4	0												
180	2-M32*1.5	Φ250	Φ300	Φ350	Φ19	5	0																		
200	2-M40*1.5	Φ300	Φ350	Φ400	Φ19	5	0																		

* This data is provided for MSBCL series Brake motors both with and without hand release lever.

** This frame size has two housing sizes, the rated output is for normal "L" size, and increased output is for the bigger "L" size (refer to the figures in the bracket "()")

1.2 MS Series IE1 Efficiency Motors Technical Data (at 50Hz)

Model	Power (kw)	Current (A)			Current (A)			Current (A)			Speed (r/min)	Eff			Power factor	Tst/Tn (Times)	Tmax/Tn (Times)	Tmin/Tn (Times)	Ist/In (Times)	Noise dB(A)	W.T (kg)	Moment of inertia (kg·m ²)
		220V	380V	660V	230V	400V	690V	240V	415V	720V		100%	75%	50%								
MS561-2	0.09	0.63	0.37	0.21	0.61	0.35	0.20	0.58	0.34	0.19	2800	55.6	49.6	39.2	0.67	2.4	2.6	2.2	3.5	58	2.80	0.000102
MS562-2	0.12	0.68	0.39	0.23	0.65	0.37	0.22	0.62	0.36	0.21	2840	65.6	61.8	53.2	0.71	2.3	2.6	2.1	4.3	58	2.90	0.000128
MS563-2	0.18	0.92	0.53	0.31	0.88	0.51	0.29	0.85	0.49	0.28	2780	66.5	64.2	56.8	0.77	2.3	2.5	2.4	4.1	61	4.00	0.000142
MS631-2	0.18	0.92	0.53	0.31	0.88	0.51	0.29	0.85	0.49	0.28	2780	66.5	64.2	56.8	0.77	2.3	2.5	2.4	4.1	61	4.00	0.000150
MS632-2	0.25	1.19	0.69	0.40	1.14	0.65	0.38	1.09	0.63	0.36	2780	69.8	68.8	62.8	0.79	2.6	2.5	2.4	4.3	61	4.20	0.000171
MS633-2	0.37	1.72	1.00	0.57	1.65	0.95	0.55	1.58	0.91	0.53	2750	71.4	71.2	65.9	0.79	2.8	2.6	2.6	4.7	62	4.70	0.000203
MS711-2	0.37	1.70	0.99	0.57	1.63	0.94	0.54	1.56	0.90	0.52	2830	71.3	70.4	65.2	0.8	2.8	2.9	2	5.9	64	5.20	0.000314
MS712-2	0.55	2.52	1.46	0.84	2.41	1.39	0.80	2.31	1.34	0.77	2815	71.6	71	66.1	0.8	2.7	2.7	1.8	6	64	6.20	0.000384
MS713-2	0.75	3.25	1.88	1.08	3.11	1.79	1.04	2.98	1.72	0.99	2820	73.8	73.9	70.3	0.82	3.0	3.0	2.0	6.6	65	7.20	0.000476
MS800-2	0.55	2.38	1.38	0.79	2.28	1.31	0.76	2.18	1.26	0.73	2810	73.1	73.4	69.7	0.83	2.7	2.5	1.9	5.3	64	7.30	0.000752
MS801-2	0.75	3.15	1.83	1.05	3.02	1.73	1.01	2.89	1.67	0.96	2830	75.2	75.6	72.2	0.83	3	2.8	2	6.2	67	8.70	0.000880
MS802-2	1.1	4.40	2.55	1.47	4.21	2.42	1.40	4.04	2.33	1.35	2840	79	79.8	77.7	0.83	2.6	3.1	2.6	6.1	67	10.50	0.001072
MS803-2	1.5	5.70	3.30	1.90	5.46	3.14	1.82	5.23	3.02	1.74	2820	81.2	82.5	81.3	0.85	3.2	3	2.5	7.2	70	11.20	0.001329
MS90S-2	1.5	5.73	3.32	1.91	5.48	3.15	1.83	5.25	3.04	1.75	2850	80.8	81.2	78.9	0.85	2.8	3.3	2.6	7.7	72	12.00	0.001579
MS90M-2	1.85	7.04	4.08	2.35	6.73	3.87	2.24	6.45	3.73	2.15	2850	82.1	82.6	80.7	0.84	4.2	3.6	2.9	7.8	72	13.30	0.001846
MS90L1-2	2.2	8.19	4.74	2.73	7.84	4.51	2.61	7.51	4.34	2.50	2860	82.9	83.4	81.4	0.85	3.7	3.9	3.3	8.8	72	14.50	0.002123
MS90L2-2	3	11.1	6.43	3.70	10.6	6.11	3.54	10.2	5.89	3.39	2830	82.4	83.5	82.3	0.86	4.4	4.2	3.5	8	74	15.00	0.002491
MS100L1-2	3	10.9	6.32	3.64	10.4	6.00	3.48	10.0	5.78	3.33	2875	83.9	84.5	83	0.86	2.8	3.2	2	8.1	76	20.00	0.003475
MS100L2-2	4	13.8	7.99	4.60	13.2	7.59	4.40	12.6	7.31	4.22	2870	85.5	86.5	85.8	0.89	3.2	3.4	2.2	8.8	77	24.00	0.004247
MS112M-2	4	13.2	7.63	4.40	12.6	7.25	4.20	12.1	6.99	4.03	2870	85.6	87.0	86.8	0.93	2.6	2.85	1.75	8.1	77	26.00	0.005845
MS112L-2	5.5	18.0	10.4	6.00	17.2	9.9	5.74	16.5	9.5	5.50	2890	87.1	88	87.6	0.92	3.1	3.3	2	9.4	78	29.30	0.007429
MS132S1-2	5.5	18.5	10.7	6.17	17.7	10.2	5.90	17.0	9.8	5.65	2900	86.6	87.4	86.5	0.90	2.25	3.1	1.5	7.9	80	38.40	0.011224
MS132S2-2	7.5	24.6	14.2	8.19	23.5	13.5	7.84	22.5	13.0	7.51	2900	88.0	88.8	88.3	0.91	2.4	3.25	1.5	8.5	80	41.30	0.013838
MS132M1-2	9.2	30.8	17.8	10.3	29.5	17.0	9.83	28.3	16.3	9.42	2930	88	88	86.4	0.89	2	2.2	1.2	7.5	81	48.20	0.016551
MS132M2-2	11	36.3	21.0	12.1	34.7	20.0	11.6	33.3	19.2	11.1	2930	88.4	88.6	87.5	0.9	2	2.2	1.2	7.5	83	52.50	0.018641
MS160M1-2	11	36.4	21.1	12.1	34.8	20.0	11.6	33.4	19.3	11.1	2920	88.8	89.4	88.6	0.89	2.6	2.95	1.85	7.1	86	76.00	0.041164
MS160M2-2	15	49.3	28.5	16.4	47.2	27.1	15.7	45.2	26.1	15.1	2910	89.1	90.0	89.6	0.90	2.2	2.8	1.8	6.4	86	83.00	0.048985
MS160L-2	18.5	59.3	34.4	19.8	56.8	32.6	18.9	54.4	31.5	18.1	2930	90.3	90.9	90.3	0.91	2.9	3.05	1.65	8.4	86	92.30	0.059935
MS180M-2	22	71.3	41.3	23.8	68.2	39.2	22.7	65.3	37.8	21.8	2950	90	90.2	89.7	0.9	2	2.2	1.2	7.5	88	121.0	0.090185
MS200L1-2	30	95.9	55.5	32.0	91.8	52.8	30.6	87.9	50.8	29.3	2950	91.2	90.6	88.5	0.9	2	2.2	1.2	7.5	90	144.0	0.114999
MS200L2-2	37	117.3	67.9	39.1	112.2	64.5	37.4	107.5	62.2	35.8	2940	92	92.1	91.4	0.9	2	2.2	1.2	7.5	90	170.0	0.136738

1.2 MS Series IE1 Efficiency Motors Technical Data (at 50Hz)

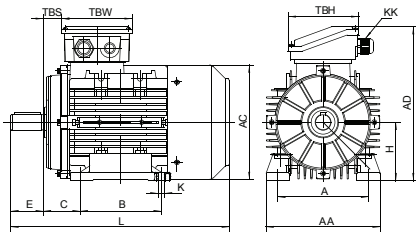
Model	Power (kw)	Current (A)			Current (A)			Current (A)			Speed (r/min)	Eff			Power factor	Tst/Tn (Times)	Tmax/Tn (Times)	Tmin/Tn (Times)	Ist/In (Times)	Noise dB(A)	W.T (kg)	Moment of inertia (kg·m ²)
		220V	380V	660V	230V	400V	690V	240V	415V	720V		100%	75%	50%								
MS561-4	0.06	0.54	0.31	0.18	0.52	0.30	0.17	0.50	0.29	0.17	1400	52.8	47.7	38.7	0.55	3.1	3.2	3	3.2	50	2.90	0.000190
MS562-4	0.09	0.71	0.41	0.24	0.68	0.39	0.23	0.65	0.38	0.22	1400	56.2	51.7	43.1	0.59	2.3	2.5	2.8	3.1	50	3.20	0.000240
MS563-4	0.12	0.89	0.51	0.30	0.85	0.49	0.28	0.81	0.47	0.27	1390	58.5	54.3	45.6	0.61	2.65	2.8	2.7	3.2	52	3.70	0.000265
MS631-4	0.12	0.89	0.51	0.30	0.85	0.49	0.28	0.81	0.47	0.27	1390	58.5	54.3	45.6	0.61	2.65	2.8	2.7	3.2	52	3.70	0.000273
MS632-4	0.18	1.15	0.67	0.38	1.10	0.63	0.37	1.06	0.61	0.35	1365	64.2	62.5	55.9	0.64	2.8	2.55	2.4	3.6	52	4.40	0.000338
MS633-4	0.25	1.45	0.84	0.48	1.39	0.80	0.46	1.33	0.77	0.44	1370	68.3	67.5	62.1	0.66	2.7	2.7	2.4	3.9	54	5.00	0.000408
MS711-4	0.25	1.38	0.80	0.46	1.32	0.76	0.44	1.27	0.73	0.42	1395	65.1	63.1	55.8	0.73	2	2.15	1.6	4.2	55	5.10	0.000561
MS712-4	0.37	1.90	1.10	0.63	1.82	1.05	0.61	1.74	1.01	0.58	1390	68.6	68.2	62.9	0.74	2.25	2.35	1.95	4.6	55	6.10	0.000714
MS713-4	0.55	2.81	1.63	0.94	2.69	1.54	0.90	2.57	1.49	0.86	1390	71.9	71.6	66.8	0.72	2.8	2.8	2.4	4.8	57	7.20	0.000920
MS801-4	0.55	2.74	1.59	0.91	2.62	1.51	0.87	2.51	1.45	0.84	1400	70.9	70.5	65.5	0.74	2.25	2.55	1.95	4.9	58	8.30	0.001350
MS802-4	0.75	3.36	1.94	1.12	3.21	1.85	1.07	3.08	1.78	1.03	1390	74.4	76.0	73.9	0.79	2.5	2.55	2.05	5.4	58	9.70	0.001793
MS803-4	1.1	4.90	2.84	1.63	4.69	2.69	1.56	4.49	2.60	1.50	1390	74.6	75.7	73.3	0.79	2.9	2.9	2.4	5.9	60	11.70	0.002236
MS90S-4	1.1	4.90	2.83	1.63	4.68	2.69	1.56	4.49	2.60	1.50	1400	75.5	76.7	74.4	0.78	2.9	2.7	2.15	6	61	11.70	0.002443
MS90L1-4	1.5	6.48	3.75	2.16	6.20	3.56	2.07	5.94	3.44	1.98	1410	79.6	80.2	78.0	0.76	3.4	3.3	2.7	6.9	61	15.00	0.003152
MS90L2-4	2.2	9.76	5.65	3.25	9.33	5.37	3.11	8.94	5.17	2.98	1410	78.9	79.4	77	0.75	3.8	2.6	3.2	7.2	63	17.60	0.004002
MS100L1-4	2.2	8.71	5.05	2.90	8.34	4.79	2.78	7.99	4.62	2.66	1420	82.0	83.3	82.3	0.81	2.4	2.7	2.15	6.3	64	19.20	0.005977
MS100L2-4	3	11.5	6.64	3.82	11.0	6.31	3.66	10.5	6.08	3.51	1430	83.7	84.8	83.8	0.82	2.6	3	2.15	6.8	64	22.50	0.007591
MS100L3-4	4	15.2	8.80	5.07	14.5	8.36	4.85	13.9	8.06	4.65	1430	84.2	85.5	85.3	0.82	2.2	2.3	1.5	7	65	27.30	0.009626
MS112M-4	4	14.9	8.60	4.95	14.2	8.17	4.74	13.6	7.88	4.54	1440	84.7	86.0	85.4	0.83	2.5	2.9	2.05	7.1	65	29.00	0.012079
MS112L-4	5.5	20.4	11.8	6.81	19.5	11.2	6.51	18.7	10.8	6.24	1435	85.9	87.1	86.6	0.82	2.5	2.95	2.2	7.2	68	35.70	0.014229
MS132S-4	5.5	19.6	11.4	6.54	18.76	10.8	6.25	18.0	10.4	5.99	1445	86.4	87.8	87.7	0.85	2.15	2.85	1.75	7.5	71	39.00	0.024846
MS132M-4	7.5	25.9	15.0	8.62	24.7	14.2	8.24	23.7	13.7	7.90	1450	87.6	88.8	88.5	0.87	2.1	2.9	1.65	8.6	71	48.60	0.033131
MS132L1-4	9.2	31.3	18.1	10.4	30.0	17.2	10.0	28.7	16.6	9.6	1450	88.6	89.5	89.1	0.87	2.8	2.4	2	8.4	74	56.50	0.039339
MS132L2-4	11	37.3	21.6	12.4	35.6	20.5	11.9	34.2	19.8	11.4	1450	90.1	91.1	91	0.86	3	2.5	2	8.9	74	64.00	0.045478
MS160M-4	11	39.7	23.0	13.2	37.9	21.8	12.6	36.4	21.0	12.1	1450	87.7	89.6	90.3	0.83	2.05	2.25	1.55	6.1	75	73.00	0.077369
MS160L1-4	15	51.9	30.1	17.3	49.7	28.5	16.6	47.6	27.5	15.9	1455	88.7	90.0	90.2	0.86	2.2	2.45	1.4	7.3	75	88.50	0.101156
MS160L2-4	18.5	63.1	36.5	21.0	60.4	34.7	20.1	57.9	33.5	19.3	1460	90.5	91	90.6	0.85	2.2	2.2	1.4	7.5	78	97.50	0.127587
MS180M-4	18.5	62.4	36.1	20.8	59.7	34.3	19.9	57.2	33.1	19.1	1460	90.5	90.7	89.9	0.86	2.2	2.2	1.4	7.5	80	118.0	0.155064
MS180L-4	22	73.8	42.7	24.6	70.6	40.6	23.5	67.6	39.1	22.5	1460	91	91.3	90.6	0.86	2.2	2.2	1.4	7.5	80	128.0	0.173293
MS200L-4	30	99.5	57.6	33.2	95.2	54.7	31.7	91.2	52.8	30.4	1470	92	92.2	91.6	0.86	2.2	2.2	1.4	7.5	83	153.0	0.224084
MS631-6	0.09	0.75	0.44	0.25	0.72	0.41	0.24	0.69	0.40	0.23	890	50.7	47.6	39.8	0.62	2	2.2	1.9	2.9	50	4.20	0.000418
MS632-6	0.12	0.97	0.56	0.32	0.93	0.54	0.31	0.89	0.52	0.30	895	53.7	50.9	43.2	0.60	2.3	2.2	2.1	2.8	50	4.50	0.000517
MS711-6	0.18	1.11	0.64	0.37	1.06	0.61	0.35	1.02	0.59	0.34	905	63.0	61.6	55.4	0.67	2.15	2.4	2	3.5	52	5.60	0.000841
MS712-6	0.25	1.56	0.90	0.52	1.49	0.86	0.50	1.43	0.83	0.48	885	62.6	62.0	55.8	0.67	2.05	2.3	2.05	3.2	52	6.10	0.000965
MS713-6	0.37	2.32	1.34	0.77	2.22	1.28	0.74	2.13	1.23	0.71	890	65.4	64.4	58.2	0.64	2.3	2.5	2.3	3.4	54	6.80	0.001151
MS801-6	0.37	2.06	1.19	0.69	1.97	1.13	0.66	1.89	1.09	0.63	920	68.1	67.7	62.2	0.69	1.95	2.25	1.8	3.7	56	8.10	0.001560
MS802-6	0.55	2.74	1.59	0.91	2.62	1.51	0.87	2.51	1.45	0.84	920	72.5	73.0	69.3	0.73	2.25	2.45	2.05	4.3	56	9.60	0.002098
MS803-6	0.75	3.65	2.11	1.22	3.49	2.01	1.16	3.34	1.93	1.11	910	72.9	74.2	71.3	0.74	2.2	2.4	2.1	4.1	58	10.00	0.002635
MS90S-6	0.75	3.83	2.22	1.28	3.67	2.11	1.22	3.52	2.03	1.17	920	72.5	73.3	70.0	0.71	1.8	2.2	1.7	4.1	59	11.30	0.003061
MS90L1-6	1.1	5.47	3.17	1.82	5.23	3.01	1.74	5.01	2.90	1.67	910	73.5	75.2	72.9	0.72	1.95	2.25	1.85	4.2	59	14.40	0.004067
MS90L2-6	1.5	7.12	4.12	2.37	6.81	3.92	2.27	6.53	3.78	2.18	900	74.7	77	75.5	0.74	2.1	2.3	1.9	4.2	60	15.50	0.005147
MS100L1-6	1.5	6.77	3.92	2.26	6.47	3.72	2.16	6.20	3.59	2.07	935	78.5	79.9	78.2	0.74	2.05	2.35	1.8	5	61	18.80	0.007913
MS100L2-6	2.2	9.87	5.71	3.29	9.44	5.43	3.15	9.04	5.23	3.01	950	77	78.4	77.8	0.76	2.2	2.2	1.3	6	63	22.80	0.011194
MS112M-6	2.2	9.3	5.38	3.10	8.89	5.11	2.96	8.52	4.93	2.84	925	79.2	81.8	81.7	0.78	1.9	2.25	1.75	4.7	64	25.00	0.013777
MS112L-6	3	12.9	7.49	4.31	12.4	7.12	4.13	11.9	6.86	3.95	950	79	80.9	80.9	0.77	2.2	2.2	1.3	6	64	30.00	0.018246
MS132S-6	3	12.5	7.22	4.16	11.9	6.86	3.98	11.4	6.61	3.81	955	82.5	84.5	84.3	0.77	1.7	2.15	1.45	5.3	64	35.00	0.029932
MS132M1-6	4	16.2	9.39	5.40	15.5	8.92	5.17	14.9	8.59	4.95	965	85.2	85.8	84.4	0.76	2.3	2.9	1.6	6.6	68	47.60	0.037337
MS132M2-6	5.5	21.5	12.4	7.16	20.6	11.8	6.9	19.7	11.4	6.6	960	85.9	87.2	86.8	0.78	2.5	2.7	1.7	6.7	68	50.70	0.049025
MS132L-6	7.5	30.1	17.4	10.0	28.8	16.5	9.6	27.6	15.9	9.2	960	85	86.4	86.4	0.77	2	2	1.3	6.5	68	57.20	0.060782
MS160M-6	7.5	30.3	17.6	10.1	29.0	16.7	9.7	27.8	16.1	9.3	970	86.8	87.6	86.7	0.75	2.1	2.7	1.65	6.1	68	69.0	0.084476
MS160L-6	11	42.5	24.6	14.2	40.7	23.4	13.6	39.0	22.5	13.0	965	87.2	88.6	88.6	0.78	2.25	2.35	1.5	6.9	73	86.0	0.118152
MS180L-6	15	54.6	31.6	18.2	52.2	30.0	17.4	50.1	28.9	16.7	970	89	89	88.6	0.81	2	2.2	1.3	6.5	77	124.0	0.254063
MS200L1-6	18.5	66.6	38.6	22.2	63.7	36.6	21.2	61.0	35.3	20.3	975	90	90.2	89.5	0.81	2	2.2	1.3	6.5	80	141.0	0.303941
MS200L2-6	22	77.3	44.7	25.8	73.9	42.5	24.6	70.9	41.0	23.6	975	90	90.2	89.4	0.83	2	2.2	1.3	6.5	80	152.0	0.353160
MS711-8	0.09	0.97	0.56	0.32	0.93	0.54	0.31	0.89	0.52	0.30	680	44.9	39.6	31.1	0.54	2.3	2.6	2.2	2.4	50	5.60	0.000717
MS712-8	0.12	1.15	0.67	0.38	1.10	0.63	0.37	1.06	0.61	0.35	680	51.7	47.1	38.4	0.53	2.5	2.75	2.5	2.7	50	6.00	0.000841
MS713-8	0.18	1.51	0.88	0.50	1.45	0.83	0.48	1.39	0.80	0.46												

1.3 MS Series IE2 Efficiency Motors Technical Data (at 50Hz)

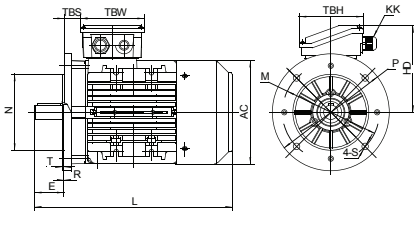
Model	Power	Current(A)			Current(A)			Current(A)			Speed (r/min)	Eff. (%)	Power Factor (cos φ)	T _{max} /T _n (Times)	T _{max} /T _n (Times)	T _{max} /T _n (Times)	I _g /I _n (Times)	Noise dB(A)	W.T (kg)	Inertia kg*m ²
		220V	380V	660V	230V	400V	690V	240V	415V	720V										
MS2 713-2	0.75	3.23	1.86	1.08	3.07	1.77	1.02	2.96	1.71	0.99	2810	77.4	0.79	3.4	3.5	3	5.8	65	7.5	0.000480
MS2 801-2	0.75	3.15	1.82	1.05	2.99	1.73	1.00	2.88	1.66	0.96	2840	77.4	0.81	3.3	3.5	2.7	6.9	67	8.9	0.000852
MS2 802-2	1.1	4.43	2.56	1.48	4.21	2.43	1.40	4.06	2.34	1.35	2860	79.6	0.82	3.5	3.7	2.8	7.2	67	10.6	0.001109
MS2 803-2	1.5	5.99	3.46	2.00	5.69	3.29	1.90	5.49	3.17	1.83	2860	81.3	0.81	3.7	3.8	2.9	7.7	70	13	0.001430
MS2 90S-2	1.5	5.85	3.38	1.95	5.56	3.21	1.85	5.36	3.09	1.79	2860	81.3	0.83	4.5	3.5	2.7	8.2	72	13.2	0.001430
MS2 90L1-2	2.2	8.38	4.84	2.79	7.96	4.60	2.66	7.68	4.43	2.56	2870	83.2	0.83	4.5	4.1	2.7	7.4	72	16.1	0.002181
MS2 90L2-2	3	11.2	6.49	3.75	10.7	6.17	3.56	10.29	5.94	3.43	2880	84.6	0.83	4.5	4.1	3	9.7	74	20	0.002904
MS2 100L1-2	3	10.9	6.26	3.62	10.3	5.95	3.44	9.94	5.74	3.31	2900	84.6	0.86	3.7	3.7	2.6	9.6	76	22.7	0.003008
MS2 100L2-2	4	13.9	8.05	4.65	13.2	7.65	4.42	12.8	7.37	4.26	2890	85.8	0.88	3.6	3.4	2.6	9.5	77	26	0.003934
MS2 112M-2	4	14.1	8.14	4.70	13.4	7.73	4.47	12.9	7.46	4.30	2910	85.8	0.87	3.4	3.8	2.2	9.7	77	26.4	0.006266
MS2 112L-2	5.5	18.9	10.9	6.30	18.0	10.4	5.99	17.3	9.99	5.77	2920	87	0.88	4	4.3	3	11	78	32.1	0.007819
MS2 132S1-2	5.5	18.9	10.9	6.30	18.0	10.4	5.99	17.3	9.99	5.77	2920	87	0.88	3.9	4	2.1	9.9	80	42.3	0.012022
MS2 132S2-2	7.5	25.2	14.5	8.39	23.9	13.8	7.97	23.0	13.3	7.68	2910	88.1	0.89	3.5	3.7	1.9	9.5	80	46.2	0.014635
MS2 132M1-2	9.2	31.0	17.9	10.3	29.5	17.0	9.82	28.4	16.4	9.47	2900	88.7	0.88	3.5	3.9	2.4	9.8	81	51.6	0.016303
MS2 132M2-2	11	37.7	21.7	12.6	35.8	20.7	11.9	34.5	19.9	11.5	2930	89.4	0.86	3.5	3.9	2.4	11.5	83	54.5	0.019439
MS2 160M1-2	11	36.4	21.0	12.1	34.6	20.0	11.5	33.3	19.2	11.1	2940	89.4	0.89	3.2	3.2	2.2	9	86	79.2	0.048471
MS2 160M2-2	15	48.6	28.0	16.2	46.1	26.6	15.4	44.5	25.7	14.8	2930	90.3	0.9	3.2	3.2	2.2	9	86	96.6	0.059421
MS2 160L-2	18.5	58.9	34.0	19.6	55.9	32.3	18.6	53.9	31.1	18.0	2930	90.9	0.91	3.2	3.2	2.2	9	86	102.5	0.068807
MS2 180M-2	22	69.7	40.2	23.2	66.2	38.2	22.1	63.8	36.8	21.3	2950	91.3	0.91	2.5	2	1.4	8.1	91	128	0.095016
MS2 200L1-2	30	94.3	54.4	31.4	89.6	51.7	29.9	86.3	49.9	28.8	2950	92	0.91	2.5	3.3	1.3	8.8	94	158	0.122246
MS2 200L2-2	37	115.7	66.8	38.6	109.9	63.4	36.6	105.9	61.2	35.3	2960	92.5	0.91	2.8	3.5	1.3	9.6	94	181.3	0.148816
MS2 802-4	0.75	3.31	1.91	1.10	3.14	1.81	1.05	3.03	1.75	1.01	1410	79.6	0.75	3	2.9	2.4	5.8	58	11.1	0.002060
MS2 90S-4	1.1	5.01	2.89	1.67	4.76	2.75	1.59	4.59	2.65	1.53	1420	81.4	0.71	2.8	3.1	2.6	5.6	61	13.9	0.002873
MS2 90L-4	1.5	6.71	3.88	2.24	6.38	3.68	2.13	6.15	3.55	2.05	1420	82.8	0.71	3	3.1	2.7	6.2	61	16.9	0.003709
MS2 100L1-4	2.2	8.92	5.15	2.97	8.47	4.89	2.82	8.17	4.72	2.72	1440	84.3	0.77	3.3	3.6	2.9	7.6	64	22.4	0.007306
MS2 100L2-4	3	11.8	6.83	3.95	11.2	6.49	3.75	10.8	6.26	3.61	1440	85.5	0.78	3.4	3.6	3	7.4	64	26.4	0.009053
MS2 112M-4	4	15.0	8.66	5.00	14.3	8.23	4.75	13.7	7.93	4.58	1440	86.6	0.81	2.9	3.1	2.3	8.2	65	32.3	0.013305
MS2 132S-4	5.5	20.1	11.6	6.71	19.1	11.0	6.37	18.4	10.6	6.14	1450	87.7	0.82	2.6	3.4	2.2	8.7	71	43	0.027736
MS2 132M-4	7.5	26.5	15.3	8.83	25.2	14.5	8.39	24.3	14.0	8.09	1450	88.7	0.84	3.1	3.4	2.1	8.8	71	52.6	0.035864
MS2 132L-4	9.2	31.9	18.4	10.6	30.3	17.5	10.1	29.2	16.9	9.75	1450	89.2	0.85	2.9	3.2	2	8.8	74	59	0.041954
MS2 160M-4	11	38.4	22.2	12.8	36.5	21.0	12.2	35.1	20.3	11.7	1460	89.8	0.84	2.5	2.9	1.6	7.3	75	83	0.089630
MS2 160L1-4	15	51.9	29.9	17.3	49.3	28.4	16.4	47.5	27.4	15.8	1460	90.6	0.84	2.9	3	1.7	8.2	75	103.5	0.118354
MS2 160L2-4	18.5	62.8	36.3	20.9	59.7	34.4	19.9	57.5	33.2	19.2	1460	91.2	0.85	2.9	3	1.7	8.1	78	114.5	0.136633
MS2 180M-4	18.5	61.4	35.4	20.5	58.3	33.7	19.4	56.2	32.4	18.7	1460	91.2	0.87	2.4	3	1.8	7.8	80	119	0.155064
MS2 180L-4	22	71.8	41.5	23.9	68.2	39.4	22.7	65.8	38.0	21.9	1460	91.6	0.88	2.4	2.8	1.7	7.7	80	129	0.173293
MS2 200L-4	30	99.5	57.4	33.2	94.5	54.6	31.5	91.1	52.6	30.4	1470	92.3	0.86	3.2	3.7	2.3	9.5	83	169.2	0.242313
MS2 90S-6	0.75	3.77	2.18	1.26	3.58	2.07	1.19	3.45	1.99	1.15	935	75.9	0.69	2.4	2.6	2.2	4.7	59	13	0.003365
MS2 90L-6	1.1	5.37	3.10	1.79	5.10	2.95	1.70	4.92	2.84	1.64	940	78.1	0.69	2.7	2.7	2.3	5	59	16.4	0.004805
MS2 100L-6	1.5	6.87	3.97	2.29	6.53	3.77	2.18	6.29	3.63	2.10	960	79.8	0.72	2.9	3	2.3	6.2	61	21.6	0.009554
MS2 112M-6	2.2	9.44	5.45	3.15	8.96	5.18	2.99	8.64	4.99	2.88	950	81.8	0.75	2.5	2.6	2	5.6	64	29.5	0.016969
MS2 132S-6	3	12.5	7.20	4.16	11.8	6.84	3.95	11.4	6.59	3.81	960	83.3	0.76	2.2	2.6	1.7	6.1	64	35.2	0.029932
MS2 132M1-6	4	16.6	9.58	5.53	15.8	9.10	5.25	15.2	8.77	5.06	965	84.6	0.75	2.5	2.6	1.7	6.5	68	45	0.040259
MS2 132M2-6	5.5	22.7	13.1	7.58	21.6	12.5	7.20	20.8	12.0	6.94	965	86	0.74	3	2.9	1.9	7.2	68	53.5	0.053408
MS2 132L-6	7.5	30.2	17.4	10.1	28.7	16.6	9.56	27.6	16.0	9.21	970	87.2	0.75	3.7	3.1	2.2	8.2	68	66.2	0.068087
MS2 160M-6	7.5	30.6	17.7	10.2	29.1	16.8	9.69	28.0	16.2	9.34	970	87.2	0.74	2.8	2.9	1.6	7.1	68	72.6	0.089688
MS2 160L-6	11	42.9	24.8	14.3	40.8	23.6	13.6	39.3	22.7	13.1	970	88.7	0.76	2.9	2.7	1.6	7.3	73	89.5	0.122730
MS2 180L-6	15	53.0	30.6	17.7	50.4	29.1	16.8	48.5	28.0	16.2	975	89.7	0.83	2.2	2.7	1.2	8	79	130	0.254063
MS2 200L1-6	18.5	64.9	37.5	21.6	61.6	35.6	20.5	59.4	34.3	19.8	975	90.4	0.83	2.1	2.9	1.5	8.3	82	149	0.303941
MS2 200L2-6	22	76.7	44.3	25.6	72.9	42.1	24.3	70.3	40.6	23.4	975	90.9	0.83	2.2	3	1.6	8.9	82	167	0.353160

2. TA SERIES (Aluminium Housing)

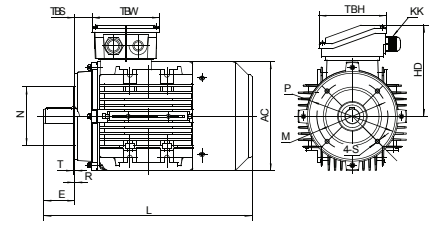
2.1 TA Series Dimensional Drawings



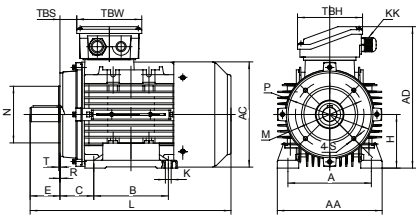
56-160 IM B3



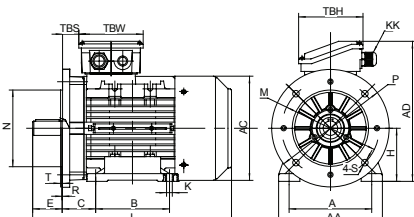
56-160 IM B5



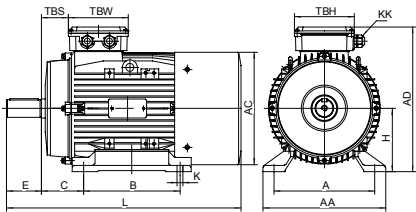
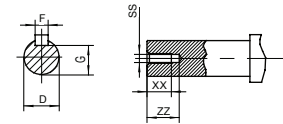
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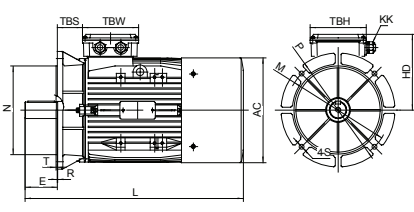
56-160 IM B34



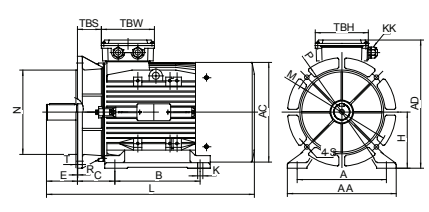
56-160 IM B35



180-200 IM B3



180-200 IM B5



180-200 IM B35

FRAME	Bearings		KK	Foot Mounting				Shaft							General								
	Drive End	Non-Drive End		H	A	B	C	D	E	F	G	K	SS	XX	ZZ	AA	AD	HD	AC	L	TBS	TBW	TBH
TA 56	6201-2RS		1-M16*1.5	56	90	71	36	∅9	20	3	7.2	6×9	M4	9	12	112	151	95	∅110	195	16.5	83	83
TA 63	6201-2RS		1-M16*1.5	63	100	80	40	∅11	23	4	8.5	7×10	M4	10	14	124	170	107	∅122	215	10	98	98
TA 71	6202-2RS		1-M20*1.5	71	112	90	45	∅14	30	5	11	7×10	M5	12	17	140	186	115	∅138	245	16	98	98
TA 80	6204-2RS		1-M20*1.5	80	125	100	50	∅19	40	6	15.5	10×15	M6	16	21	160	214	134	∅157	277	26.5	109	109
TA 90S/L	6205-2RS		1-M20*1.5	90	140	100/125	56	∅24	50	8	20	10×15	M8	19	25	176	235	145	∅177	313/338	28.5	109	109
TA 100	6206-2RS		2-M20*1.5	100	160	140	63	∅28	60	8	24	12×16	M10	22	30	200	260	160	∅199	376	32	118	118
TA 112	6306-2RS	6206-2RS	2-M25*1.5	112	190	140	70	∅28	60	8	24	12×16	M10	22	30	224	283	171	∅220	397	33	118	118
TA 132S/M	6308-2RS	6208-2RS	2-M25*1.5	132	216	140/178	89	∅38	80	10	33	12×16	M12	28	37	260	323	191	∅261	460/498	36.5	118	118
TA 160M/L	6309-2RS	6209-2RS	2-M32*1.5	160	254	210/254	108	∅42	110	12	37	15×21	M16	36	45	314	391	231	∅314	616/660	64	148	148
TA 180	6311-2RS	6211-2RS	2-M32*1.5	180	279	241/279	121	∅48	110	14	42.5	15×25	M16	36	45	340	440	260	∅368	730	73	190	190
TA 200	6312-2RS	6212-2RS	2-M40*1.5	200	318	305	133	∅55	110	16	49	19×29	M20	42	53	390	460	260	∅368	745	85	190	190

2.1 TA Series Dimensional Drawings

FRAME	B5						B14						B5R						B14B					
	N	M	P	S	T	R	N	M	P	S	T	R	N	M	P	T	S	R	N	M	P	T	S	R
TA 56	Φ80	Φ100	Φ120	Φ7	3	0	Φ50	Φ65	Φ80	M5	2.5	0												
TA 63	Φ95	Φ115	Φ140	Φ10	3	0	Φ60	Φ75	Φ90	M5	2.5	0												
TA 71	Φ110	Φ130	Φ160	Φ10	3.5	0	Φ70	Φ85	Φ105	M6	2.5	0	Φ95	Φ115	Φ140	3	Φ10	0	Φ95	Φ115	Φ140	3	M8	0
TA 80	Φ130	Φ165	Φ200	Φ12	3.5	0	Φ80	Φ100	Φ120	M6	3	0	Φ110	Φ130	Φ160	3.5	Φ10	0	Φ110	Φ130	Φ160	3.5	M8	0
TA 90S/L	Φ130	Φ165	Φ200	Φ12	3.5	0	Φ95	Φ115	Φ140	M8	3	0	Φ110	Φ130	Φ160	3.5	Φ10	0	Φ110	Φ130	Φ160	3.5	M8	0
TA 100	Φ180	Φ215	Φ250	Φ15	4	0	Φ110	Φ130	Φ160	M8	3.5	0	Φ130	Φ165	Φ200	3.5	Φ12	0	Φ130	Φ165	Φ200	3.5	M10	0
TA 112	Φ180	Φ215	Φ250	Φ15	4	0	Φ110	Φ130	Φ160	M8	3.5	0	Φ130	Φ165	Φ200	3.5	Φ12	0	Φ130	Φ165	Φ200	3.5	M10	0
TA 132S/M	Φ230	Φ265	Φ300	Φ15	4	0	Φ130	Φ165	Φ200	M10	3.5	0	Φ180	Φ215	Φ250	4	Φ15	0	Φ180	Φ215	Φ250	4	M12	0
TA 160M/L	Φ250	Φ300	Φ350	Φ19	5	0	Φ180	Φ215	Φ250	M12	4	0												
TA 180	Φ250	Φ300	Φ350	Φ19	5	0																		
TA 200	Φ300	Φ350	Φ400	Φ19	5	0																		

2.2 T1A Series IE1 Efficiency Motors Technical Data (at 50Hz)

Model	Power	Current(A)			Current(A)			Current(A)			Speed (r/min)	Eff. (%)	Power factor (cos φ)	T _{start} /T _n (Times)	T _{max} /T _n (Times)	T _{min} /T _n (Times)	I _{st} /I _n (Times)	Noise dB(A)	W.T (kg)	Inertia kg*m ²
		220V	380V	660V	230V	400V	690V	240V	415V	720V										
T1A 561-2	0.09	0.62	0.36	0.21	0.59	0.34	0.20	0.57	0.33	0.19	2710	53	0.72	2.2	2.3	2	4	58	2.8	0.000102
T1A 562-2	0.12	0.72	0.42	0.24	0.68	0.39	0.23	0.66	0.38	0.22	2700	61	0.72	2.2	2.3	2	4	58	3.2	0.000128
T1A 563-2	0.18	1.00	0.58	0.33	0.95	0.55	0.32	0.92	0.53	0.31	2710	63	0.75	2.2	2.4	1.6	6	61	3.5	0.000142
T1A 631-2	0.18	1.00	0.58	0.33	0.95	0.55	0.32	0.92	0.53	0.31	2710	63	0.75	2.2	2.4	1.6	6	61	3.7	0.000150
T1A 632-2	0.25	1.30	0.75	0.43	1.23	0.71	0.41	1.19	0.69	0.40	2710	65	0.78	2.2	2.4	1.6	6	61	4.2	0.000171
T1A 633-2	0.37	1.92	1.11	0.64	1.82	1.05	0.61	1.76	1.02	0.59	2710	65	0.78	2.2	2.4	1.6	6	62	4.7	0.000203
T1A 711-2	0.37	1.76	1.02	0.59	1.67	0.97	0.56	1.61	0.93	0.54	2730	70	0.79	2.2	2.4	1.6	6	64	5.34	0.000314
T1A 712-2	0.55	2.58	1.49	0.86	2.45	1.42	0.82	2.36	1.36	0.79	2760	71	0.79	2.2	2.4	1.6	6	64	6.14	0.000384
T1A 713-2	0.75	3.34	1.93	1.11	3.18	1.83	1.06	3.06	1.77	1.02	2730	72	0.82	2.2	2.4	1.5	6	65	7.1	0.000475
T1A 801-2	0.75	3.44	1.98	1.15	3.26	1.88	1.09	3.15	1.82	1.05	2860	69.2	0.83	2.1	2.5	1.5	5.7	67	8.15	0.000896
T1A 802-2	1.1	4.41	2.55	1.47	4.19	2.42	1.40	4.04	2.33	1.35	2870	79	0.83	2.6	2.8	1.8	6.5	67	9.7	0.001124
T1A 803-2	1.5	5.87	3.39	1.96	5.58	3.22	1.86	5.38	3.10	1.79	2870	81	0.83	2.7	2.8	1.8	6.8	70	11.2	0.001351
T1A 90S-2	1.5	5.94	3.43	1.98	5.65	3.26	1.88	5.44	3.14	1.81	2880	80	0.83	2.3	2.8	1.4	6.6	72	12.3	0.001856
T1A 90L1-2	2.2	8.25	4.77	2.75	7.84	4.53	2.61	7.56	4.36	2.52	2880	83.5	0.84	2.6	2.7	1.8	7.1	72	14.9	0.002306
T1A 90L2-2	3	10.8	6.24	3.60	10.3	5.92	3.42	9.89	5.71	3.30	2900	86	0.85	2.9	3	1.9	8.1	74	17.4	0.002966
T1A 100L1-2	3	11.3	6.54	3.77	10.8	6.21	3.59	10.4	5.99	3.46	2900	83	0.84	2.7	3.2	2.1	7.7	76	20.1	0.003776
T1A 100L2-2	4	15.0	8.67	5.00	14.3	8.23	4.75	13.7	7.93	4.58	2890	84.5	0.83	3.1	3.6	2.8	8.1	77	23	0.004664
T1A 100L3-2	5.5	18.7	10.8	6.23	17.8	10.25	5.92	17.1	9.88	5.70	2900	88	0.88	3.3	3.6	2.5	10.1	78	26	0.005907
T1A 112M1-2	4	14.2	8.2	4.75	13.5	7.81	4.51	13.0	7.53	4.34	2910	85	0.87	2.8	3.6	1.7	9.2	77	26.3	0.006311
T1A 112M2-2	5.5	19.0	11.0	6.34	18.1	10.4	6.02	17.4	10.1	5.80	2900	86.5	0.88	3	3.8	2.2	9.8	78	31.2	0.007796
T1A 112M3-2	7.5	25.8	14.9	8.59	24.5	14.1	8.16	23.6	13.6	7.87	2910	88	0.87	3.8	4.2	2.7	10.3	80	37	0.009833
T1A 132S1-2	5.5	19.7	11.4	6.57	18.7	10.8	6.24	18.0	10.4	6.02	2890	84.4	0.87	2.2	2.8	2.2	6.8	80	37.6	0.012058
T1A 132S2-2	7.5	25.8	14.9	8.59	24.5	14.1	8.16	23.6	13.6	7.87	2890	88	0.87	2.7	3.2	2.5	8.2	80	43	0.015212
T1A 132M1-2	9.2	30.6	17.6	10.2	29.0	16.8	9.68	28.0	16.2	9.33	2910	88	0.9	3.1	3.8	1.7	9.7	81	48.4	0.017834
T1A 132M2-2	11	36.5	21.1	12.2	34.7	20.0	11.6	33.5	19.3	11.2	2920	89	0.89	3.3	4	1.8	10.7	83	54.2	0.020357
T1A 132M3-2	15	50.4	29.1	16.8	47.9	27.7	16.0	46.2	26.7	15.4	2940	91	0.86	4	4.5	2.5	14	86	72	0.028557
T1A 160M1-2	11	38.3	22.1	12.8	36.4	21.0	12.1	35.1	20.2	11.7	2940	90	0.84	2.6	3.1	1.5	7.9	86	72	0.044380
T1A 160M2-2	15	51.4	29.7	17.1	48.9	28.2	16.3	47.1	27.2	15.7	2950	90.3	0.85	2.8	3.3	1.4	8.6	86	82	0.055805
T1A 160L1-2	18.5	62.9	36.3	21.0	59.8	34.5	19.9	57.6	33.3	19.2	2950	91	0.85	3	3.4	1.6	9.3	86	94.1	0.065593
T1A 160L2-2	22	73.7	42.6	24.6	70.0	40.4	23.4	67.5	39.0	22.5	2950	91.3	0.86	3.2	3.5	1.7	9.9	91	104.5	0.077018
T1A 561-4	0.06	0.56	0.33	0.19	0.54	0.31	0.18	0.52	0.30	0.17	1360	50	0.56	2.3	2.4	2	4	50	2.9	0.000190
T1A 562-4	0.09	0.77	0.45	0.26	0.73	0.42	0.24	0.71	0.41	0.24	1360	52	0.59	2.3	2.4	2	4	50	3.3	0.000240
T1A 563-4	0.12	0.95	0.55	0.32	0.90	0.52	0.30	0.87	0.50	0.29	1360	52	0.64	2.2	2.4	2	4	52	3.7	0.000265
T1A 631-4	0.12	0.95	0.55	0.32	0.90	0.52	0.30	0.87	0.50	0.29	1360	52	0.64	2.2	2.4	2	4	52	3.7	0.000273
T1A 632-4	0.18	1.28	0.74	0.43	1.21	0.70	0.40	1.17	0.68	0.39	1310	57	0.65	2.2	2.4	2	4	52	4.4	0.000338
T1A 633-4	0.25	1.66	0.96	0.55	1.58	0.91	0.53	1.52	0.88	0.51	1340	60	0.66	2.2	2.2	2	4	54	5	0.000408
T1A 711-4	0.25	1.52	0.88	0.51	1.45	0.84	0.48	1.39	0.81	0.46	1350	60	0.72	2.2	2.4	1.7	6	55	5.06	0.000561
T1A 712-4	0.37	2.02	1.17	0.67	1.92	1.11	0.64	1.85	1.07	0.62	1370	65	0.74	2.2	2.4	1.7	6	55	5.96	0.000714
T1A 713-4	0.55	2.92	1.69	0.97	2.78	1.60	0.93	2.68	1.55	0.89	1380	66	0.75	2.2	2.4	1.7	6	57	7.06	0.000919
T1A 801-4	0.55	2.64	1.53	0.88	2.51	1.45	0.84	2.42	1.40	0.81	1420	73	0.75	2	2.3	1.6	4.8	57	8.3	0.001453
T1A 802-4	0.75	3.39	1.96	1.13	3.22	1.86	1.08	3.11	1.79	1.04	1410	76.5	0.76	2	2.4	1.7	5	58	9.8	0.001690
T1A 803-4	1.1	4.91	2.84	1.64	4.67	2.70	1.56	4.50	2.60	1.50	1390	77.5	0.76	2.3	2.4	2	5	61	11.2	0.002166
T1A 90S-4	1.1	4.88	2.82	1.63	4.64	2.68	1.55	4.47	2.58	1.49	1400	78	0.76	2.1	2.3	1.9	5	61	12.3	0.002675
T1A 90L1-4	1.5	6.25	3.61	2.08	5.94	3.43	1.98	5.72	3.30	1.91	1410	81	0.78	2.6	2.4	2.1	5.7	61	15.1	0.003519
T1A 90L2-4	2.2	8.72	5.03	2.91	8.28	4.78	2.76	7.98	4.61	2.66	1420	83	0.8	2.7	2.3	2.1	6.2	64	17.78	0.004685
T1A 100L1-4	2.2	9.42	5.44	3.14	8.95	5.16	2.98	8.62	4.98	2.87	1430	80.9	0.76	2.2	2.8	1.9	6	64	20	0.006775
T1A 100L2-4	3	11.4	6.58	3.80	10.8	6.25	3.61	10.4	6.02	3.48	1430	84.5	0.82	2.5	2.8	2.1	6.7	64	24	0.008424
T1A 100L3-4	4	16.1	9.28	5.36	15.3	8.81	5.09	14.7	8.49	4.90	1430	84	0.78	2.7	3	2.3	6.9	65	28.2	0.010733
T1A 112M1-4	4	15.8	9.11	5.26	15.0	8.66	5.00	14.5	8.34	4.82	1440	85.5	0.78	2.3	3.3	2.1	7.8	65	29.8	0.013228
T1A 112M2-4	5.5	21.7	12.5	7.24	20.6	11.9	6.88	19.9	11.5	6.63	1450	86.5	0.77	3.4	3.5	2.6	8.6	71	36	0.016839
T1A 132S-4	5.5	20.5	11.9	6.84	19.5	11.3	6.50	18.8	10.9	6.26	1450	86	0.82	1.8	2.9	1.7	7.1	71	42	0.028012
T1A 132M1-4	7.5	28.2	16.3	9.40	26.8	15.5	8.93	25.8	14.9	8.61	1450	87.5	0.8	2.9	3.3	1.9	8.4	71	52.6	0.037145
T1A 132M2-4	9.2	33.8	19.5	11.3	32.1	18.5	10.7	30.9	17.9	10.3	1450	88.5	0.81	3.1	3.4	1.7	8.9	74	55	0.043597
T1A 132M3-4	11	40.0	23.1	13.3	38.0	21.9	12.7	36.6	21.1	12.2	1450	89.4	0.81	3.5	3.5	1.7	9.4	75	64	0.051339
T1A 160M-4	11	40.7	23.5	13.6	38.6	22.3	12.9	37.2	21.5	12.4	1460	89	0.8	2.3	2.8	1.3	6.8	75	74	0.080254
T1A 160L1-4	15	53.2	30.7	17.7	50.5	29.2	16.8	48.7	28.1	16.2	1460	90.5	0.82	2.4	2.6	1.4	7.5	75	90.3	0.105640
T1A 160L2-4	18.5	64.5	37.3	21.5	61.3	35.4	20.4	59.1	34.1	19.7	1460	90.9	0.83	2.4	2.5	1.4	7.6	78	104	0.127619
T1A 160L3-4	22	77.2	44.6	25.8	73.4	42.4	24.5	70.7	40.8	23.6	1460	91.4	0.82	2.8	2.7	1.5	8.8	80	118.5	0.149598

2.2 T1A Series IE1 Efficiency Motors Technical Data (at 50Hz)

Model	Power	Current(A)			Current(A)			Current(A)			Speed (r/min)	Eff. (%)	Power factor (cos φ)	T _{start} /T _n (Times)	T _{max} /T _n (Times)	T _{min} /T _n (Times)	I _s /I _n (Times)	Noise dB(A)	W.T (kg)	Inertia kg*m ²
		220V	380V	660V	230V	400V	690V	240V	415V	720V										
T1A 631-6	0.09	0.92	0.53	0.31	0.88	0.51	0.29	0.85	0.49	0.28	840	42	0.61	2	2	1.5	3.5	50	4.2	0.000418
T1A 632-6	0.12	1.13	0.65	0.38	1.08	0.62	0.36	1.04	0.60	0.35	850	45	0.62	2	2	1.5	3.5	50	4.5	0.000517
T1A 711-6	0.18	1.28	0.74	0.43	1.22	0.70	0.41	1.17	0.68	0.39	880	56	0.66	1.6	1.7	1.5	4	52	5.6	0.000841
T1A 712-6	0.25	1.59	0.92	0.53	1.51	0.87	0.50	1.46	0.84	0.49	900	59	0.7	2.1	2.2	1.5	4	52	6	0.000965
T1A 713-6	0.37	2.31	1.34	0.77	2.20	1.27	0.73	2.12	1.22	0.71	890	61	0.69	2	2.1	1.5	4	54	6.8	0.001150
T1A 801-6	0.37	2.42	1.40	0.81	2.30	1.33	0.77	2.21	1.28	0.74	910	61	0.66	1.9	2.2	1.8	3.2	56	8	0.001596
T1A 802-6	0.55	3.40	1.96	1.13	3.23	1.86	1.08	3.11	1.80	1.04	910	65.5	0.65	2.1	2.3	1.9	3.5	56	9.1	0.002041
T1A 803-6	0.75	4.06	2.34	1.35	3.85	2.23	1.28	3.72	2.14	1.24	910	70.5	0.69	2.1	2.2	1.9	3.8	58	10.6	0.002634
T1A 90S-6	0.75	4.06	2.34	1.35	3.86	2.23	1.29	3.72	2.15	1.24	940	71.5	0.68	1.8	2.2	1.5	4.1	59	11.5	0.003266
T1A 90L-6	1.1	5.97	3.45	1.99	5.67	3.27	1.89	5.46	3.15	1.82	930	73.5	0.66	1.9	2.3	1.8	4.1	59	14.5	0.004281
T1A 90L2-6	1.5	7.63	4.40	2.54	7.25	4.18	2.42	6.98	4.03	2.33	930	75	0.69	2	2.2	1.9	4.3	61	15.5	0.005487
T1A 100L-6	1.5	7.43	4.29	2.48	7.06	4.08	2.35	6.80	3.93	2.27	940	77	0.69	1.9	2.6	1.8	4.6	61	18.7	0.007543
T1A 100L2-6	2.2	9.71	5.61	3.24	9.22	5.33	3.07	8.89	5.13	2.96	940	79.5	0.75	2	2.3	1.8	5.1	64	22.8	0.009935
T1A 112M1-6	2.2	10.6	6.11	3.53	10.1	5.80	3.35	9.69	5.59	3.23	945	79.3	0.69	1.9	2.3	1.8	4.8	64	24.5	0.013950
T1A 112M2-6	3	14.1	8.16	4.71	13.4	7.75	4.47	12.9	7.47	4.31	950	81	0.69	1.9	2.8	1.8	5	64	28.5	0.017675
T1A 132S-6	3	13.3	7.67	4.43	12.6	7.29	4.21	12.2	7.03	4.06	960	82.5	0.72	1.9	2.5	1.4	5.7	64	36.4	0.030457
T1A 132M1-6	4	17.1	9.85	5.69	16.2	9.36	5.40	15.6	9.02	5.21	965	84.5	0.73	2	2.6	1.5	5.9	68	42.2	0.037251
T1A 132M2-6	5.5	23.5	13.6	7.84	22.3	12.9	7.45	21.5	12.4	7.18	950	85.5	0.72	2.1	2.7	1.6	6.2	68	51.4	0.048966
T1A 132M3-6	7.5	30.2	17.5	10.1	28.7	16.6	9.58	27.7	16.0	9.23	965	87	0.75	2.7	2.9	2	7.3	68	62.6	0.062355
T1A 160M-6	7.5	30.2	17.5	10.1	28.7	16.6	9.58	27.7	16.0	9.23	965	87	0.75	2.4	2.9	1.7	6.7	68	68.3	0.086226
T1A 160L-6	11	43.2	24.9	14.4	41.1	23.7	13.7	39.6	22.8	13.2	965	87	0.77	2.5	2.7	1.5	6.9	73	86	0.116874
T1A 711-8	0.09	0.97	0.56	0.32	0.92	0.53	0.31	0.88	0.51	0.29	680	43	0.57	2.4	2.5	2.3	2.5	50	5.6	0.000717
T1A 712-8	0.12	1.14	0.66	0.38	1.08	0.62	0.36	1.04	0.60	0.35	690	49.5	0.56	2.7	2.8	2.6	3	50	6	0.000841
T1A 801-8	0.18	1.48	0.86	0.49	1.41	0.81	0.47	1.36	0.79	0.45	690	55	0.58	2.2	2.4	2	3	52	8.3	0.002021
T1A 802-8	0.25	1.94	1.12	0.65	1.84	1.06	0.61	1.78	1.03	0.59	690	58.5	0.58	2.3	2.4	2	3.1	52	9.3	0.002323
T1A 90S-8	0.37	2.58	1.49	0.86	2.45	1.41	0.82	2.36	1.36	0.79	710	64	0.59	1.9	2.3	1.7	3.3	56	11.38	0.003266
T1A 90L-8	0.55	3.84	2.22	1.28	3.65	2.11	1.22	3.52	2.03	1.17	705	65	0.58	1.9	2.3	1.7	3.4	56	14	0.004281
T1A 90L2-8	0.75	4.69	2.71	1.56	4.45	2.57	1.49	4.29	2.48	1.43	700	69	0.61	1.8	2.1	1.8	3.5	59	15.5	0.004884
T1A 100L1-8	0.75	4.43	2.56	1.48	4.21	2.43	1.40	4.06	2.34	1.35	685	68.5	0.65	1.9	1.8	2.2	3.6	59	17.6	0.006346
T1A 100L2-8	1.1	6.09	3.52	2.03	5.79	3.34	1.93	5.58	3.22	1.86	690	72	0.66	1.9	2.1	1.8	3.5	59	20	0.008340
T1A 112M-8	1.5	7.87	4.54	2.62	7.48	4.32	2.49	7.21	4.16	2.40	700	76	0.66	1.8	2.3	1.8	4	61	25.3	0.013950
T1A 132S-8	2.2	10.6	6.13	3.54	10.1	5.83	3.36	9.73	5.62	3.24	715	79	0.69	1.9	2.4	1.7	4.9	64	39.6	0.032131
T1A 132M-8	3	13.9	8.04	4.64	13.2	7.64	4.41	12.7	7.36	4.25	715	81	0.7	2	2.5	1.8	5.1	64	47.4	0.040598
T1A 160M1-8	4	18.3	10.6	6.11	17.4	10.1	5.81	16.8	9.70	5.60	715	82	0.7	1.8	2.3	1.6	4.6	68	59.8	0.071036
T1A 160M2-8	5.5	24.8	14.3	8.25	23.5	13.6	7.84	22.7	13.1	7.56	710	83.5	0.7	1.9	2.4	1.8	4.8	68	69	0.086226
T1A 160L-8	7.5	33.0	19.0	11.0	31.3	18.1	10.4	30.2	17.4	10.1	715	85.5	0.7	2.5	2.8	2	5.7	68	84.8	0.113076

2.3 T2A Series IE2 Efficiency Motors Technical Data (at 50Hz)

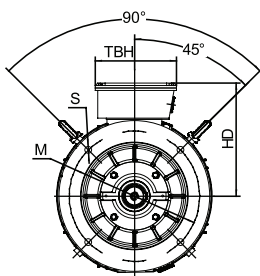
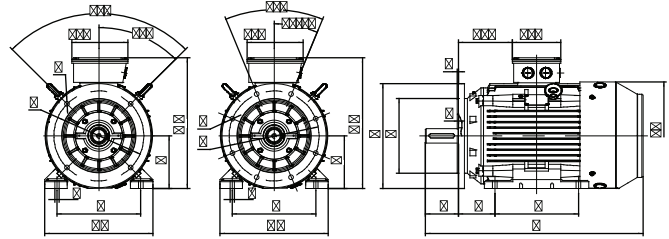
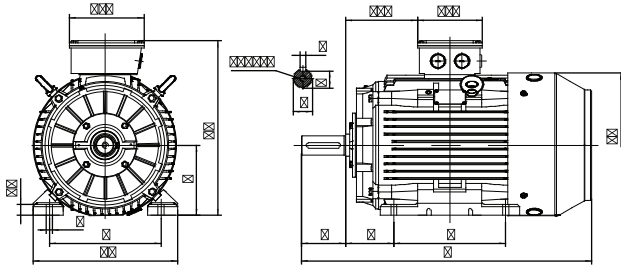
Model	Power	Current(A)			Current(A)			Current(A)			Speed (r/min)	Eff. (%)	Power factor (cos φ)	T _{star} /T _n (Times)	T _{max} /T _n (Times)	T _{min} /T _n (Times)	I _s /I _n (Times)	Noise dB(A)	W.T (kg)	Inertia kg·m ²	
		220V	380V	660V	230V	400V	690V	240V	415V	720V											
T2A 801-2	0.75	3.15	1.82	1.05	2.99	1.73	1.00	2.88	1.66	0.96	2840	77.4	0.81	2.6	2.8	2.2	6.1	67	8.4	0.000896	
T2A 802-2	1.1	4.43	2.56	1.48	4.21	2.43	1.40	4.06	2.34	1.35	2860	79.6	0.82	2.6	2.6	1.8	7	67	9.8	0.001124	
T2A 803-2	1.5	5.78	3.34	1.93	5.49	3.17	1.83	5.29	3.06	1.76	2880	81.3	0.84	2.9	3.1	2	7.4	70	11.3	0.001427	
T2A 90S-2	1.5	5.92	3.42	1.97	5.63	3.25	1.88	5.42	3.13	1.81	2880	81.3	0.82	2.8	3	2	7.2	72	12.4	0.001856	
T2A 90L1-2	2.2	8.38	4.84	2.79	7.96	4.60	2.66	7.68	4.43	2.56	2890	83.2	0.83	2.8	3.1	1.4	7.6	72	15	0.002306	
T2A 90L2-2	3	11.0	6.34	3.66	10.4	6.02	3.48	10.05	5.80	3.35	2880	84.6	0.85	3.4	3.3	2.3	7.9	74	17.2	0.002966	
T2A 100L1-2	3	10.7	6.19	3.58	10.2	5.88	3.40	9.82	5.67	3.27	2910	84.6	0.87	3.1	3.5	2.6	8.8	76	22	0.004131	
T2A 100L2-2	4	14.1	8.14	4.70	13.4	7.73	4.47	12.9	7.46	4.30	2910	85.8	0.87	3.7	4.2	3.8	9.9	77	25.8	0.005197	
T2A 112M1-2	4	13.8	7.96	4.60	13.1	7.56	4.37	12.6	7.29	4.21	2920	85.8	0.89	3.3	3.6	2	9.6	77	26.7	0.006311	
T2A 112M2-2	5.5	19.1	11.0	6.37	18.2	10.5	6.06	17.5	10.1	5.84	2920	87	0.87	3.4	4.1	2.8	10.2	78	32.5	0.008057	
T2A 132S1-2	5.5	18.7	10.8	6.23	17.8	10.3	5.92	17.1	9.9	5.71	2920	87	0.89	2.4	3.4	1.9	8.3	80	39.7	0.013319	
T2A 132S2-2	7.5	25.2	14.5	8.39	23.9	13.8	7.97	23.0	13.3	7.68	2920	88.1	0.89	3.1	3.7	2	10.3	80	47.3	0.016473	
T2A 132M1-2	9.2	30.7	17.7	10.2	29.1	16.8	9.71	28.1	16.2	9.36	2920	88.7	0.89	3.4	4.1	1.4	10.8	81	52	0.017834	
T2A 132M2-2	11	36.0	20.8	12.0	34.2	19.7	11.4	32.9	19.0	11.0	2930	89.4	0.9	4	3.9	1.7	12.7	83	58.5	0.021619	
T2A 132M3-2	15	48.6	28.0	16.2	46.1	26.6	15.4	44.5	25.7	14.8	2940	90.3	0.9	3.7	4.3	1.7	13.6	86	74	0.028557	
T2A 160M1-2	11	36.4	21.0	12.1	34.6	20.0	11.5	33.3	19.2	11.1	2950	89.4	0.89	2.6	3.4	1.5	8.4	86	79	0.050092	
T2A 160M2-2	15	48.6	28.0	16.2	46.1	26.6	15.4	44.5	25.7	14.8	2950	90.3	0.9	2.6	3.4	1.8	9.4	86	91	0.065326	
T2A 160L1-2	18.5	59.5	34.4	19.8	56.5	32.6	18.8	54.5	31.5	18.2	2950	90.9	0.9	2.6	3.2	1.8	9.4	86	101	0.077018	
T2A 160L2-2	22	69.7	40.2	23.2	66.2	38.2	22.1	63.8	36.8	21.3	2950	91.3	0.91	3.1	3.6	1.8	10.6	91	112.5	0.090348	
T2A 802-4	0.75	3.49	2.02	1.16	3.32	1.92	1.11	3.20	1.85	1.07	1420	79.6	0.71	2.7	2.9	2.4	5.7	58	10.4	0.001928	
T2A 803-4	1.1	4.94	2.85	1.65	4.69	2.71	1.56	4.52	2.61	1.51	1420	81.4	0.72	3.1	3.1	2.5	5.9	61	12.3	0.002522	
T2A 90S-4	1.1	4.81	2.77	1.60	4.57	2.64	1.52	4.40	2.54	1.47	1440	81.4	0.74	2.9	3.1	2.2	6.8	61	13.8	0.003342	
T2A 90L1-4	1.5	6.44	3.72	2.15	6.12	3.53	2.04	5.90	3.41	1.97	1440	82.8	0.74	3.1	3.2	2.2	6.5	61	16.1	0.004185	
T2A 90L2-4	2.2	9.16	5.29	3.05	8.70	5.02	2.90	8.38	4.84	2.80	1430	84.3	0.75	3.4	2.4	2.2	7.1	64	18.8	0.005352	
T2A 100L1-4	2.2	8.38	4.84	2.79	7.96	4.59	2.65	7.67	4.43	2.56	1440	84.3	0.82	2.4	2.9	2	6.6	64	22	0.007765	
T2A 100L2-4	3	11.5	6.66	3.85	11.0	6.33	3.66	10.6	6.10	3.52	1450	85.5	0.8	2.3	3.2	2.4	7.6	64	25.8	0.009743	
T2A 100L3-4	4	15.2	8.77	5.06	14.4	8.33	4.81	13.9	8.03	4.64	1440	86.6	0.8	2.8	3.2	2.3	7.2	65	28.6	0.011063	
T2A 112M1-4	4	14.8	8.56	4.94	14.1	8.13	4.69	13.6	7.84	4.52	1440	86.6	0.82	2.5	3.3	2.3	7.9	65	31.4	0.013744	
T2A 112M2-4	5.5	20.6	11.9	6.88	19.6	11.3	6.53	18.9	10.9	6.30	1440	87.7	0.8	3.7	3.6	3.1	8.3	71	36.7	0.017355	
T2A 132S-4	5.5	19.9	11.5	6.63	18.9	10.9	6.30	18.2	10.5	6.07	1460	87.7	0.83	2.1	3.5	1.9	8.6	71	44.3	0.030593	
T2A 132M1-4	7.5	26.8	15.5	8.94	25.5	14.7	8.49	24.5	14.2	8.18	1460	88.7	0.83	2.7	3.2	1.7	8.9	71	54.5	0.039726	
T2A 132M2-4	9.2	31.9	18.4	10.6	30.3	17.5	10.1	29.2	16.9	9.7	1460	89.2	0.85	2.9	3.2	1.7	8.7	74	56.6	0.046178	
T2A 132M3-4	11	37.9	21.9	12.6	36.0	20.8	12.0	34.7	20.0	11.6	1460	89.8	0.85	3.3	3.6	1.4	9.3	75	68	0.053920	
T2A 160M-4	11	38.8	22.4	12.9	36.9	21.3	12.3	35.6	20.5	11.9	1460	89.8	0.83	2.5	2.7	1.7	7	75	82	0.089674	
T2A 160L1-4	15	51.9	29.9	17.3	49.3	28.4	16.4	47.5	27.4	15.8	1470	90.6	0.84	2.5	2.8	1.6	8.3	75	103	0.118199	
T2A 160L2-4	18.5	63.5	36.7	21.2	60.4	34.9	20.1	58.2	33.6	19.4	1470	91.2	0.84	2.7	3	1.7	8.8	78	115	0.137038	
T2A 803-6	0.75	3.88	2.24	1.29	3.69	2.13	1.23	3.55	2.05	1.18	920	75.9	0.67	2.7	2.6	2.5	4.2	58	11.7	0.003079	
T2A 90S-6	0.75	4.00	2.31	1.33	3.80	2.19	1.27	3.66	2.11	1.22	940	75.9	0.65	2.2	2.5	1.9	4.5	59	12.6	0.003467	
T2A 90L-6	1.1	5.37	3.10	1.79	5.10	2.95	1.70	4.92	2.84	1.64	950	78.1	0.69	2	2.4	1.8	4.9	59	15.2	0.004884	
T2A 90L2-6	1.5	7.27	4.20	2.42	6.91	3.99	2.30	6.66	3.85	2.22	945	79.8	0.68	2.7	3	2.5	5.1	61	18.2	0.006292	
T2A 100L-6	1.5	6.68	3.86	2.23	6.35	3.67	2.12	6.12	3.53	2.04	950	79.8	0.74	1.7	2.2	1.6	4.8	61	20.7	0.008340	
T2A 100L2-6	2.2	9.83	5.68	3.28	9.34	5.39	3.11	9.00	5.20	3.00	950	81.8	0.72	2.5	2.7	2.1	5.5	64	25	0.011529	
T2A 112M-6	2.2	9.70	5.60	3.23	9.21	5.32	3.07	8.88	5.13	2.96	955	81.8	0.73	2.1	2.7	1.8	5.5	64	26	0.015440	
T2A 112M2-6	3	13.2	7.60	4.39	12.5	7.22	4.17	12.1	6.96	4.02	955	83.3	0.72	2.3	2.8	2.1	5.7	64	31	0.019165	
T2A 132S-6	3	12.5	7.20	4.16	11.8	6.84	3.95	11.4	6.59	3.81	960	83.3	0.76	1.6	2.4	1.5	5.6	64	37.8	0.032131	
T2A 132M1-6	4	16.8	9.71	5.61	16.0	9.22	5.32	15.4	8.89	5.13	965	84.6	0.74	2	2.6	1.6	5.9	68	43.8	0.038925	
T2A 132M2-6	5.5	22.4	13.0	7.48	21.3	12.3	7.11	20.5	11.9	6.85	965	86	0.75	2.4	2.6	1.8	6.6	68	51.1	0.048966	
T2A 132M3-6	7.5	29.8	17.2	9.93	28.3	16.3	9.43	27.3	15.7	9.09	970	87.2	0.76	3.1	3.2	1.9	7.9	68	66	0.065702	
T2A 160M-6	7.5	29.4	17.0	9.80	27.9	16.1	9.31	26.9	15.5	8.97	965	87.2	0.77	2.5	2.9	1.8	6.9	68	74	0.093821	
T2A 160L-6	11	42.9	24.8	14.3	40.8	23.6	13.6	39.3	22.7	13.1	970	88.7	0.76	2.2	2.3	1.3	6.5	73	93	0.128267	
T2A 160L2-6	15	57.2	33.0	19.1	54.3	31.3	18.1	52.3	30.2	17.4	965	89.7	0.77	3.1	3	2.2	8.3	79	116	0.170040	

2.4 T3A Series IE3 Efficiency Motors Technical Data (at 50Hz)

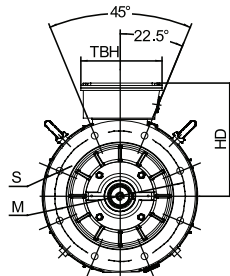
Model	Power	Current(A)			Current(A)			Current(A)			Speed (r/min)	Eff.			Power Factor	Tstart/Tn (Times)	Tmax/Tn (Times)	Tmin/Tn (Times)	Is/In (Times)	Noise dB(A)	W.T (kg)	Jnertia kg*m ²
		220V	380V	660V	230V	400V	690V	240V	415V	720V		100%	75%	50%								
T3A 631-2	0.18	0.96	0.55	0.32	0.91	0.53	0.30	0.88	0.51	0.29	2850	65.9	63.5	56.2	0.75	2	2.5	1.6	4.7	61	3.6	0.000231
T3A 632-2	0.25	1.21	0.70	0.40	1.15	0.66	0.38	1.11	0.64	0.37	2840	69.7	68.4	62.5	0.78	2.5	2.7	2	5.2	61	3.9	0.000255
T3A 711-2	0.37	1.74	1.00	0.58	1.65	0.95	0.55	1.59	0.92	0.53	2860	73.8	72.4	66.5	0.76	2.5	2.8	1.8	5.6	64	5.2	0.000369
T3A 712-2	0.55	2.33	1.34	0.78	2.21	1.28	0.74	2.13	1.23	0.71	2860	77.8	63.5	56.2	0.80	3.1	3.1	2	6.5	64	6.2	0.000495
T3A 713-2	0.75	2.98	1.72	0.99	2.83	1.64	0.94	2.73	1.58	0.91	2870	80.7	80.8	78.2	0.82	3	3.2	2.2	7.1	65	7.1	0.000606
T3A 801-2	0.75	3.02	1.74	1.01	2.87	1.66	0.96	2.76	1.60	0.92	2890	80.7	80.3	77.2	0.81	3.1	3.2	2.3	7.4	67	8.9	0.000972
T3A 802-2	1.1	4.22	2.43	1.41	4.01	2.31	1.34	3.86	2.23	1.29	2890	82.7	82.5	79.9	0.83	3.4	3.4	2	8.7	67	10.6	0.001275
T3A 803-2	1.5	5.79	3.34	1.93	5.50	3.17	1.83	5.30	3.06	1.77	2910	84.2	83.9	81.5	0.81	4	4	2.2	9.6	70	12.5	0.001654
T3A 90S-2	1.5	5.72	3.30	1.91	5.43	3.14	1.81	5.24	3.02	1.75	2900	84.2	83.8	81.4	0.82	3.5	3.7	2.1	8.3	72	14	0.002186
T3A 90L1-2	2.2	8.22	4.75	2.74	7.81	4.51	2.60	7.53	4.35	2.51	2910	85.9	86.1	84.7	0.82	3.1	3.5	2.2	8.1	72	16.3	0.002636
T3A 90L2-2	3	11.3	6.54	3.78	10.8	6.21	3.59	10.37	5.99	3.46	2910	87.1	87.1	84.2	0.80	4	4.1	2.6	9.6	74	18.5	0.003406
T3A 100L1-2	3	10.2	5.88	3.39	9.7	5.59	3.23	9.33	5.38	3.11	2910	87.1	87.5	86.3	0.89	3.2	3.6	2.6	9.4	76	23.7	0.004842
T3A 100L2-2	4	13.3	7.66	4.43	12.6	7.28	4.20	12.2	7.02	4.05	2910	88.1	88.7	88.1	0.90	3.3	3.6	2.3	10.1	77	27.6	0.005907
T3A 112M1-2	4	13.1	7.58	4.38	12.5	7.20	4.16	12.0	6.94	4.01	2920	88.1	88.2	87.0	0.91	3.4	3.9	2.4	10.5	77	30.1	0.007505
T3A 112M2-2	5.5	17.8	10.3	5.94	16.9	9.78	5.65	16.3	9.43	5.44	2920	89.2	89.6	89.1	0.91	3.3	4.2	2.9	11.9	78	35.7	0.009251
T3A 132S1-2	5.5	18.2	10.5	6.08	17.3	10.0	5.77	16.7	9.64	5.56	2930	89.2	89.4	88.2	0.89	3.2	4	2.5	10	80	43.4	0.015212
T3A 132S2-2	7.5	24.3	14.1	8.11	23.1	13.4	7.71	22.3	12.9	7.43	2930	90.1	90.2	89.1	0.90	3.6	4.7	2.4	11.9	80	51.7	0.018996
T3A 132M1-2	9.2	29.4	17.0	9.79	27.9	16.1	9.30	26.9	15.5	8.96	2930	90.6	91.2	90.5	0.91	3.2	4.2	2.6	11.6	81	58.3	0.021619
T3A 132M2-2	11	34.5	19.9	11.5	32.8	18.9	10.9	31.6	18.2	10.5	2930	91.2	91.5	91.2	0.92	3.6	4.1	2.4	12.2	83	63.5	0.024142
T3A 132M3-2	15	47.7	27.6	15.9	45.3	26.2	15.1	43.7	25.2	14.6	2940	91.9	92.1	91.2	0.90	4.9	4.9	2	14.4	86	75	0.028557
T3A 160M1-2	11	36.1	20.8	12.0	34.3	19.8	11.4	33.0	19.1	11.0	2960	91.2	91	89.6	0.88	3.2	4	1.4	10.3	86	85.5	0.059613
T3A 160M2-2	15	48.3	27.9	16.1	45.8	26.5	15.3	44.2	25.5	14.7	2960	91.9	91.5	89.9	0.89	3.9	4.2	1.4	11.4	86	104	0.076751
T3A 160L1-2	18.5	57.9	33.4	19.3	55.0	31.8	18.3	53.0	30.6	17.7	2950	92.4	92.8	91.8	0.91	3	3	1.5	9.1	86	121	0.092252
T3A 180M-2	22	68.6	39.6	22.9	65.2	37.6	21.7	62.8	36.3	20.9	2960	92.7	93	92.4	0.91	2.7	3.3	1.7	9	91	130.6	0.104677
T3A 200L1-2	30	94.0	54.3	31.3	89.3	51.6	29.8	86.1	49.7	28.7	2960	93.3	93.2	92.2	0.90	3.5	3.8	1.8	10.2	94	158	0.136738
T3A 200L2-2	37	115.5	66.7	38.5	109.7	63.3	36.6	105.7	61.0	35.2	2960	93.7	93.6	92.6	0.90	3.6	3.7	1.7	9.8	94	173.1	0.163308
T3A 631-4	0.12	0.70	0.40	0.23	0.66	0.38	0.22	0.64	0.37	0.21	1360	64.8	63.7	57.6	0.70	2.2	2.3	2	3.5	52	3.8	0.000305
T3A 632-4	0.18	0.97	0.56	0.32	0.92	0.53	0.31	0.89	0.51	0.30	1400	69.9	69.6	65.4	0.70	2.2	2.5	2.1	4.1	52	4.5	0.000399
T3A 711-4	0.25	1.30	0.75	0.43	1.23	0.71	0.41	1.19	0.69	0.40	1410	73.5	73.2	69.0	0.69	2.3	2.5	2.1	4.5	55	5.8	0.000717
T3A 712-4	0.37	1.85	1.07	0.62	1.76	1.02	0.59	1.70	0.98	0.57	1420	77.3	77.1	73.6	0.68	2.8	3	2.5	5.2	55	7	0.000965
T3A 801-4	0.55	2.80	1.62	0.93	2.66	1.54	0.89	2.56	1.48	0.85	1440	80.8	79.9	76.0	0.64	3.1	3.3	2.4	6.2	57	9.5	0.001690
T3A 802-4	0.75	3.47	2.00	1.16	3.29	1.90	1.10	3.17	1.83	1.06	1440	82.5	82.5	80.1	0.69	3.1	3.1	2.5	6.3	58	11.7	0.002285
T3A 803-4	1.1	4.65	2.69	1.55	4.42	2.55	1.47	4.26	2.46	1.42	1430	84.1	84.9	83.7	0.74	3	3.1	2.6	6.6	61	13.8	0.002998
T3A 90S-4	1.1	4.72	2.72	1.57	4.48	2.59	1.49	4.32	2.49	1.44	1440	84.1	84.2	82.9	0.73	4	3.4	2.5	7.1	61	15.1	0.003842
T3A 90L1-4	1.5	6.25	3.61	2.08	5.94	3.43	1.98	5.73	3.31	1.91	1430	85.3	85.5	84.1	0.74	3.4	3.3	2.8	7.1	61	18	0.004685
T3A 100L1-4	2.2	8.35	4.82	2.78	7.93	4.58	2.64	7.64	4.41	2.55	1450	86.7	87.1	86.2	0.80	2.8	3.3	2.3	7.9	64	23.9	0.008754
T3A 100L2-4	3	11.5	6.66	3.85	11.0	6.33	3.65	10.6	6.10	3.52	1450	87.7	88	86.9	0.78	3.3	3.4	2.7	8.1	64	28.3	0.011063
T3A 112M1-4	4	14.5	8.37	4.83	13.8	7.95	4.59	13.3	7.66	4.42	1450	88.6	88.8	88.2	0.82	3.1	3.7	2.6	8.6	65	33.9	0.015292
T3A 112M2-4	5.5	20.2	11.7	6.73	19.2	11.1	6.39	18.5	10.7	6.16	1450	89.6	89.9	89.1	0.80	3.8	3.7	2.5	9.1	71	39.1	0.048758
T3A 132S-4	5.5	19.2	11.1	6.41	18.3	10.5	6.09	17.6	10.2	5.87	1460	89.6	89.8	89.4	0.84	2.3	3.5	1.9	9	71	47.4	0.034464
T3A 132M1-4	7.5	26.0	15.0	8.66	24.7	14.3	8.23	23.8	13.7	7.93	1460	90.4	90.9	90.3	0.84	2.6	3.4	2.2	8.9	71	57.4	0.043597
T3A 132M2-4	9.2	32.5	18.8	10.8	30.9	17.8	10.3	29.8	17.2	9.93	1460	90.8	91.3	90.7	0.82	3.2	3.6	2	10	74	60	0.051339
T3A 132M3-4	11	37.7	21.8	12.6	35.8	20.7	11.9	34.5	19.9	11.5	1460	91.4	92	91.6	0.84	3.5	3.7	2.1	10.5	75	67	0.060372
T3A 160M-4	11	38.2	22.0	12.7	36.3	20.9	12.1	34.9	20.2	11.6	1470	91.4	91.7	89.8	0.83	2.6	2.8	1.8	7.6	75	89	0.105373
T3A 160L1-4	15	50.4	29.1	16.8	47.9	27.7	16.0	46.2	26.7	15.4	1470	92.1	92.3	91.3	0.85	3	3	2	9.2	75	110.5	0.137038
T3A 180M-4	18.5	61.1	35.3	20.4	58.1	33.5	19.4	56.0	32.3	18.7	1470	92.6	92.8	92.1	0.86	2.8	3.3	1.9	8.8	80	130	0.173293
T3A 180L-4	22	72.4	41.8	24.1	68.8	39.7	22.9	66.3	38.3	22.1	1470	93	93.1	92.3	0.86	3	3.5	2.1	9.3	80	145.4	0.200637
T3A 200L-4	30	95.8	55.3	32.0	91.1	52.6	30.4	87.8	50.7	29.3	1470	93.6	93.7	92.9	0.88	3.2	3.7	2.1	9.7	83	180	0.265100
T3A 711-6	0.18	1.20	0.69	0.40	1.14	0.66	0.38	1.09	0.63	0.36	930	63.9	61	53.4	0.62	2.4	2.6	2.3	3.5	52	5.4	0.000790
T3A 712-6	0.25	1.48	0.85	0.49	1.40	0.81	0.47	1.35	0.78	0.45	920	68.6	67.2	61.2	0.65	2.2	2.5	2.2	3.7	52	6.3	0.001020
T3A 801-6	0.37	1.95	1.12	0.65	1.85	1.07	0.62	1.78	1.03	0.59	930	73.5	73.8	70.5	0.68	2.2	2.5	2.1	4.1	56	9.3	0.002189
T3A 802-6	0.55	2.64	1.52	0.88	2.51	1.45	0.84	2.42	1.40	0.81	930	77.2	78.1	75.7	0.71	2.3	2.4	2.1	4.3	56	10.9	0.002931
T3A 90S-6	0.75	3.73	2.16	1.24	3.55	2.05	1.18	3.42	1.97	1.14	950	78.9	80.1	78.1	0.67	2.3	2.6	2.1	4.7	59	13.8	0.004070
T3A 90L-6	1.1	5.33	3.08	1.78	5.07	2.93	1.69	4.88	2.82	1.63	950	81	81.1	78.4	0.67	2.7	2.9	2.5	5.2	59	16.2	0.005487
T3A 90L2-6	1.5	7.14	4.12	2.38	6.78	3.92	2.26	6.54	3.78	2.18	950	82.5	82.7	80.5	0.67	2.9	3	2.6	5.6	61	21.3	0.006895
T3A 100L-6	1.5	6.84	3.95	2.28	6.49	3.75	2.16	6.26	3.61	2.09	955	82.5	83	81.8	0.70	2.4	2.9	2.2	5.5	61	22.1	0.009137
T3A 100L2-6	2.2	9.54	5.51	3.18	9																	

3. TC SERIES (Cast Iron Housing)

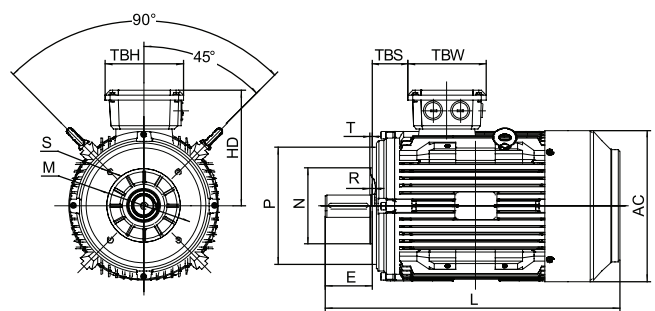
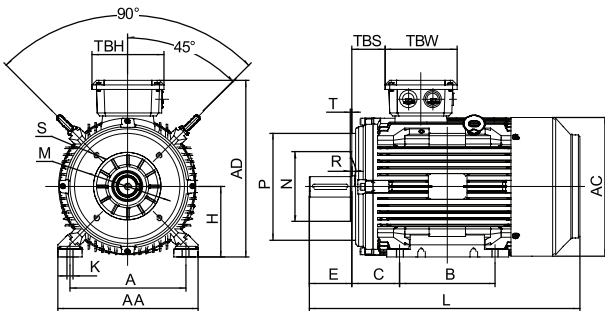
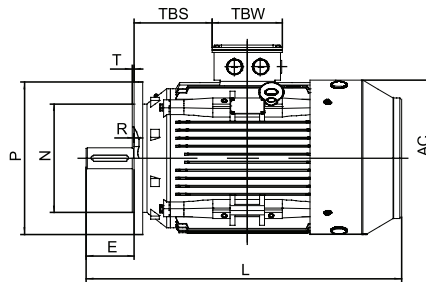
3.1 TC Series Dimensional Drawings



H80-H200



H225-H355



3.1 TC Series Dimensional Drawings

Overall & Installation Dimensions

Frame	Foot Mounting				Shaft					General								
	H	A	B	C	D	E	F	G	K	AA	AD	HD	AC	L	TBS	TBW	TBH	
80	80	125	100	50	φ 19	40	6	15.5	φ 9	154	214	134	φ 158	290	43	114	114	
90S/L	90	140	100/125	56	φ 24	50	8	20	φ 10	178	231	141	φ 176	320/345	49/61.5	114	114	
100L	100	160	140	63	φ 28	60	8	24	φ 12	203	251	151	φ 199	385	76	114	114	
112M	112	190	140	70	φ 28	60	8	24	φ 12	231	292	180	φ 220	405	73	134	134	
132S/M	132	216	140/178	89	φ 38	80	10	33	φ 12	263	332	200	φ 259	467/505	61.5	134	134	
160M/L	160	254	210/254	108	φ 42	110	12	37	φ 15	316	404	244	φ 313	605/650	91	162	187	
180M/L	180	279	241/279	121	φ 48	110	14	42.5	φ 15	354	445	265	φ 360	687/725	160/180	162	187	
200L	200	318	305	133	φ 55	110	16	49	φ 19	393	500	300	φ 399	768.5	192	186	233	
225S	4,6,8	225	356	286	149	φ 60	140	18	53	φ 19	440	558	333	φ 459	810	199	186	233
225M	2	225	356	311	149	φ 55	110	16	49	φ 19	440	558	333	φ 459	805	211.5	186	233
	4,6,8	225	356	311	149	φ 60	140	18	53	φ 19	440	558	333	φ 459	835	211.5	186	233
250M	2	250	406	349	168	φ 60	140	18	53	φ 24	484	616	366	φ 506	915	233	218	260
	4,6,8	250	406	349	168	φ 65	140	18	58	φ 24	484	616	366	φ 506	915	233	218	260
280S/M	2	280	457	368/419	190	φ 65	140	18	58	φ 24	560	675	395	φ 559	984/1035	265/277	218/245	260/280
	4,6,8	280	457	368/419	190	φ 75	140	20	67.5	φ 24	560	675	395	φ 559	984/1035	265/277	218/245	260/280
315S	2	315	508	406	216	φ 65	140	18	58	φ 28	628	825	510	φ 680	1205	200	290	350
	4,6,8	315	508	406	216	φ 80	170	22	71	φ 28	628	825	510	φ 680	1235	200	290	350
315M/L	2	315	508	457/508	216	φ 65	140	18	58	φ 28	628	825	510	φ 680	1355	200	290	350
	4,6,8	315	508	457/508	216	φ 80	170	22	71	φ 28	628	825	510	φ 680	1385	200	290	350
355M/L	2	355	610	560/630	254	φ 75	140	20	67.5	φ 28	740	1010	655	φ 820	1495	140	330	380
	4,6,8	355	610	560/630	254	φ 95	170	25	86	φ 28	740	1010	655	φ 820	1525	140	330	380
	4,6,8	355	610	560/630	254	φ 100	210	28	90	φ 28	740	1010	655	φ 820	1565	140	330	380

Frame	Bearings		Cable Gland	B5						B14							
	DE	NDE		N	M	P	S	T	R	N	M	P	S	T	R		
80	6204-2RS		1-M20×1.5	φ 130	φ 165	φ 200	4× φ 12	3.5	0	φ 80	φ 100	φ 120	M6	3	0		
90S/L	6205-2RS		1-M20×1.5	φ 130	φ 165	φ 200	4× φ 12	3.5	0	95	115	140	M8	3	0		
100L	6206-2RS		1-M20×1.5	φ 180	φ 215	φ 250	4× φ 15	4	0	110	130	160	M8	3.5	0		
112M	6306-2RS		2-M25×1.5	φ 180	φ 215	φ 250	4× φ 15	4	0	110	130	160	M8	3.5	0		
132S/M	6308-2RS		2-M25×1.5	φ 230	φ 265	φ 300	4× φ 15	4	0	130	165	200	M10	3.5	0		
160M/L	6309C3		2-M32×1.5	φ 250	φ 300	φ 350	4× φ 19	5	0	180	215	250	M12	5	0		
180M/L	6311C3		2-M32×1.5	φ 250	φ 300	φ 350	4× φ 19	5	0								
200L	6312C3		2-M40×1.5	φ 300	φ 350	φ 400	4× φ 19	5	0								
225S/M	6313C3		2-M50×1.5	φ 350	φ 400	φ 450	8× φ 19	5	0								
250M	6314C3		2-M50×1.5	φ 450	φ 500	φ 550	8× φ 19	5	0								
280S/M	6316C3		2-M50×1.5	φ 450	φ 500	φ 550	8× φ 19	5	0								
315S/M/L	2	6317C3		2-M63×1.5	φ 550	φ 600	φ 660	8× φ 24	6	0							
	4,6,8	NU319	6319C3														
355M/L	2	6319C3		2-M63×1.5	φ 680	φ 740	φ 800	8× φ 24	6	0							
	4,6,8	NU322	6322C3														

3.2 T1C Series IE1 Efficiency Motors Technical Data

Model	Output (kW)	Rated current (A)	Rotation speed (r/min)	Efficiency 100% load (%)	Efficiency 75% load (%)	Efficiency 50% load (%)	Power factor (Φ)	Rated torque (N.m)	T_{st}/T_n (Times)	T_{min}/T_n (Times)	T_{max}/T_n (Times)	I_{st}/I_n (Times)	Noise (dB)	Net weight (kg)	Moment of inertia(kg*m ²)
T1C 801-2	0.75	2.06	2840	72.1	73.3	69.0	0.73	2.52	2.2	1.8	2.3	6	67	14.3	0.00093
T1C 802-2	1.1	2.90	2840	75	77.7	74.8	0.73	3.70	2.2	1.8	2.3	7	67	16.0	0.00110
T1C 90S-2	1.5	3.79	2840	77.2	78.5	75.1	0.74	5.04	2.2	1.8	2.3	7	72	18.5	0.00184
T1C 90L-2	2.2	5.04	2840	79.7	80.9	78.8	0.79	7.40	2.2	1.8	2.3	7.5	72	22.0	0.00239
T1C 100L-2	3	6.56	2840	81.5	82.8	80.1	0.81	10.09	2.2	1.8	2.3	7.5	76	32.0	0.00368
T1C 112M-2	4	8.58	2900	83.1	84.9	82.6	0.81	13.17	2.2	1.8	2.3	7.5	77	41.0	0.01613
T1C 132S1-2	5.5	11.16	2900	84.7	85.5	82.8	0.84	18.11	2.2	1.8	2.3	7.5	80	57.5	0.01106
T1C 132S2-2	7.5	14.81	2900	86	87.1	84.7	0.85	24.70	2.2	1.8	2.3	7.5	80	62.0	0.01468
T1C 132M1-2	9.2	17.75	2900	87	88.2	86.1	0.86	30.30	2.2	1.4	2.3	7.5	80	68.5	0.01767
T1C 160M1-2	11	20.14	2945	87.6	88.9	86.6	0.90	35.67	2.2	1.4	2.3	8.5	86	111.0	0.04150
T1C 160M2-2	15	27.74	2945	88.7	90.0	88.1	0.88	48.64	2.2	1.4	2.3	9	86	122.0	0.05384
T1C 160L-2	18.5	35.18	2945	89.3	91.0	89.5	0.85	59.99	2.2	1.4	2.3	10	86	140.0	0.06436
T1C 180M-2	22	39.25	2945	89.9	89.9	87.6	0.90	71.34	2.2	1.3	2.3	8	89	153.0	0.08110
T1C 200L1-2	30	53.0	2950	90.7	91.4	89.7	0.90	97.12	2.0	1.3	2.3	7.5	92	218.0	0.15138
T1C 200L2-2	37	65.1	2950	91.2	92.7	91.5	0.90	119.8	2.0	1.3	2.3	7.5	92	230.0	0.17351
T1C 225M-2	45	78.7	2955	91.7	91.4	89.7	0.90	145.4	2.0	1.3	2.3	7.5	92	303.0	0.24178
T1C 250M-2	55	95.8	2970	92.1	92.5	90.7	0.90	176.9	2.0	1.3	2.3	9	93	391.0	0.38903
T1C 280S-2	75	129.7	2970	92.7	92.9	91.1	0.90	241.2	2.0	1.3	2.3	9	94	530.0	0.69871
T1C 280M-2	90	155.2	2970	93	92.8	90.9	0.90	289.4	2.0	1.3	2.3	9	94	572.0	0.79539
T1C 315S-2	110	189.1	2970	93.3	94.0	92.5	0.90	353.7	2.0	1.5	2.2	7	96	900.0	1.41216
T1C 315M-2	132	223.9	2970	93.5	94.1	92.8	0.91	424.4	2.0	1.5	2.2	7	96	970.0	1.55013
T1C 315L1-2	160	273.6	2970	93.8	94.2	93.0	0.90	514.5	2.0	1.5	2.2	7	99	1010.0	1.71199
T1C 315L2-2	200	341.2	2970	94	94.3	93.1	0.90	643.1	2.0	1.5	2.2	7	99	1070.0	1.90623
T1C 355M1-2	220	375.3	2980	94	94.3	93.1	0.90	705.0	2.0	1.2	2.2	7	103	1590.0	2.95585
T1C 355M2-2	250	426.5	2980	94	94.4	93.2	0.90	801.2	2.0	1.2	2.2	7	103	1650.0	3.14272
T1C 355L1-2	280	477.7	2980	94	94.5	93.2	0.90	897.3	2.0	1.2	2.2	7	103	1715.0	3.47911
T1C 355L2-2	315	537.4	2980	94	94.5	93.2	0.90	1009.5	2.0	1.2	2.2	7	103	1780.0	3.85287
T1C 801-4	0.55	1.51	1420	70	72.5	70.2	0.75	3.70	2.3	2.0	2.6	6	58	13.5	0.00141
T1C 802-4	0.75	2.00	1420	72.1	79.2	76.8	0.75	5.04	2.3	2.0	2.6	6	58	14.6	0.00168
T1C 90S-4	1.1	2.82	1430	75	77.8	74.5	0.75	7.35	2.3	2.0	2.6	6.5	61	18.0	0.00238
T1C 90L-4	1.5	3.69	1430	77.2	80.0	77.3	0.76	10.02	2.3	2.0	2.6	6.5	61	23.0	0.00335
T1C 100L1-4	2.2	4.98	1430	79.7	79.3	75.6	0.80	14.69	2.2	2.0	2.6	6.5	64	32.0	0.00688
T1C 100L2-4	3	6.64	1435	81.5	82.6	79.9	0.80	19.97	2.2	2.0	2.6	7.5	64	35.0	0.00883
T1C 112M-4	4	8.47	1435	83.1	86.2	84.7	0.82	26.62	2.2	2.0	2.6	7.5	65	44.0	0.01311
T1C 132S-4	5.5	11.29	1440	84.7	87.5	85.6	0.83	36.48	2.2	1.6	2.6	7.5	71	61.0	0.02679
T1C 132M-4	7.5	14.81	1440	86	88.6	86.9	0.85	49.74	2.2	1.6	2.6	7.5	71	76.0	0.03694
T1C 132M2-4	9.2	18.17	1440	86	88.6	85.8	0.85	61.01	2.2	1.6	2.6	7.5	71	79.0	0.04412
T1C 160M-4	11	21.58	1465	87.6	89.7	88.8	0.84	71.71	2.2	1.6	2.6	8.5	75	115.0	0.07659
T1C 160L-4	15	28.06	1465	88.7	90.8	90.2	0.87	97.78	2.2	1.6	2.6	8	75	137.0	0.10379
T1C 180M-4	18.5	33.98	1465	89.3	90.6	89.3	0.88	120.6	2.2	1.6	2.6	8	76	149.5	0.14084
T1C 180L-4	22	40.14	1465	89.9	90.7	89.3	0.88	143.4	2.2	1.6	2.6	8	76	165.0	0.16541
T1C 200L-4	30	56.16	1475	90.7	92.3	91.6	0.85	194.2	2.2	1.6	2.6	8	79	216.5	0.26594
T1C 225S-4	37	68.9	1480	91.2	90.9	88.8	0.85	238.8	2.2	1.3	2.6	7	81	293.0	0.50439
T1C 225M-4	45	83.3	1480	91.7	92.6	91.0	0.85	290.4	2.2	1.3	2.6	7	81	335.0	0.57909
T1C 250M-4	55	100.2	1480	92.1	92.4	90.7	0.86	354.9	2.2	1.3	2.6	8	83	397.0	0.69098
T1C 280S-4	75	131.2	1480	92.7	93.1	93.2	0.89	484.0	2.2	1.3	2.6	9	86	540.0	1.41285
T1C 280M-4	90	155.2	1480	93	93.4	93.5	0.90	580.7	2.2	1.3	2.6	9	86	620.0	1.74607
T1C 315S-4	110	189.1	1480	93.3	93.8	93.2	0.90	709.8	2.0	1.3	2.3	7	93	915.0	2.90486
T1C 315M-4	132	226.4	1480	93.5	94.0	93.6	0.90	851.8	2.0	1.3	2.3	7	93	1005.0	3.29579
T1C 315L1-4	160	273.6	1480	93.8	94.0	93.5	0.90	1032.4	2.0	1.3	2.3	7	97	1068.0	3.73367
T1C 315L2-4	200	341.2	1480	94	94.3	93.9	0.90	1290.5	2.0	1.3	2.3	7	97	1210.0	4.67201
T1C 355M1-4	220	379.6	1480	94	94.5	94.0	0.89	1419.6	2.0	1.2	2.3	7	101	1560.0	6.87200
T1C 355M2-4	250	431.3	1480	94	94.5	94.0	0.89	1613.2	2.0	1.2	2.3	7	101	1600.0	7.63820
T1C 355L1-4	280	483.1	1480	94	94.5	94.0	0.89	1806.8	2.0	1.2	2.3	7	101	1650.0	8.31927
T1C 355L2-4	315	537.4	1485	94	94.6	94.1	0.90	2025.8	2.0	1.2	2.3	7	101	1700.0	9.08547
T1C 355L3-4	355	605.7	1485	94	94.6	94.1	0.90	2283.0	2.0	1.2	2.3	7	101	1780.0	10.10708

3.2 T1C Series IE1 Efficiency Motors Technical Data

Model	Output (kW)	Rated current (A)	Rotation speed (r/min)	Efficiency 100% load (%)	Efficiency 75% load (%)	Efficiency 50% load (%)	Power factor (Φ)	Rated torque (N.m)	T _{st} /T _n (Times)	T _{min} /T _n (Times)	T _{max} /T _n (Times)	I _{st} /I _n (Times)	Noise (dB)	Net weight (kg)	Moment of inertia(kg·m ²)
T1C 801-6	0.37	1.49	900	59.7	60.5	55.7	0.60	3.93	2.0	1.8	2.2	5.5	54	14.0	0.00231
T1C 802-6	0.55	1.95	900	65.8	66.1	62.3	0.62	5.84	2.0	1.8	2.2	5.5	54	15.0	0.00284
T1C 90S-6	0.75	2.34	935	70	70.4	65.8	0.66	7.66	2.0	1.8	2.2	5.5	57	19.0	0.00335
T1C 90L-6	1.1	3.20	935	72.9	74.2	70.8	0.68	11.24	2.0	1.8	2.2	5.5	57	21.6	0.00461
T1C 100L-6	1.5	3.94	940	75.2	75.7	72.4	0.73	15.24	2.0	1.8	2.2	5.5	61	29.5	0.00783
T1C 112M-6	2.2	5.68	940	77.7	79.3	76.2	0.72	22.35	2.0	1.8	2.2	6	65	38.0	0.01383
T1C 132S-6	3	7.24	940	79.7	80.2	76.8	0.75	30.48	2.0	1.8	2.2	6	69	49.6	0.02855
T1C 132M1-6	4	9.58	950	81.4	82.8	80.1	0.74	40.21	2.0	1.8	2.5	6	69	59.4	0.03601
T1C 132M2-6	5.5	12.91	950	83.1	83.0	80.6	0.74	55.29	2.0	1.8	2.5	7.5	69	65.0	0.04890
T1C 160M-6	7.5	16.82	965	84.7	87.0	85.2	0.76	74.22	2.0	1.3	2.5	7.5	73	112.0	0.08726
T1C 160L-6	11	24.18	970	86.4	86.7	84.4	0.76	108.3	2.0	1.3	2.5	7.5	73	122.4	0.10963
T1C 180L-6	15	29.74	970	87.7	89.1	87.8	0.83	147.7	1.8	1.2	2.2	8	73	161.5	0.24936
T1C 200L1-6	18.5	34.25	970	88.6	90.9	90.3	0.88	182.1	1.8	1.2	2.2	8	76	208.3	0.36147
T1C 200L2-6	22	40.45	970	89.2	91.0	90.5	0.88	216.6	1.8	1.2	2.2	8	76	218.2	0.39445
T1C 225M-6	30	55.2	975	90.2	91.2	89.9	0.87	293.8	1.8	1.2	2.2	7	76	289.0	0.55616
T1C 250M-6	37	70.0	980	90.8	90.7	88.6	0.84	360.6	2.0	1.3	2.2	7.5	78	380.0	0.96477
T1C 280S-6	45	83.6	980	91.4	92.6	91.6	0.85	438.5	2.0	1.3	2.2	7.5	80	489.5	1.68116
T1C 280M1-6	55	100.4	980	91.9	93.3	92.5	0.86	536.0	2.0	1.3	2.2	7.5	80	560.0	1.99928
T1C 315S-6	75	135.9	985	92.6	93.4	92.2	0.86	727.2	2.0	1.3	2.3	7	85	806.0	3.25976
T1C 315M-6	90	162.6	985	92.9	93.5	92.5	0.86	872.6	2.0	1.3	2.3	7	85	912.0	3.90933
T1C 315L1-6	110	197.9	985	93.3	93.5	92.3	0.86	1066.5	2.0	1.3	2.3	7	85	965.0	4.54331
T1C 315L2-6	132	236.9	985	93.5	93.6	92.5	0.86	1279.8	2.0	1.3	2.3	7	85	1070.0	5.44899
T1C 355M1-6	160	276.6	990	93.8	93.5	92.7	0.89	1543.4	2.0	1.2	2.2	8	92	1537.0	8.97637
T1C 355M2-6	200	341.2	990	94	93.5	92.8	0.90	1929.3	2.0	1.2	2.2	8	92	1720.0	11.00175
T1C 355L-6	250	426.5	990	94	93.6	92.8	0.90	2411.6	2.0	1.2	2.2	8	92	1880.0	13.56011
T1C 801-8	0.18	0.8	680	51	52.5	48.5	0.61	3.5	1.5	1.3	1.7	2.8	52	15	0.00214
T1C 802-8	0.25	1.1	680	56	58.2	52.5	0.61	3.5	1.6	1.3	2	2.7	52	16.1	0.00249
T1C 90S-8	0.37	1.3	680	63	63.8	58.5	0.63	5.2	1.6	1.3	1.8	2.8	56	19.2	0.00335
T1C 90L-8	0.55	1.9	680	66	67.2	62.3	0.65	7.7	1.6	1.3	1.8	3	56	21.8	0.00461
T1C 100L1-8	0.75	2.4	710	66	67.5	62.5	0.67	10.1	1.7	1.3	2.1	3.5	59	27.9	0.00688
T1C 100L2-8	1.1	3.2	710	72	72.8	67.7	0.69	14.8	1.7	1.3	2.1	3.5	59	32	0.00925
T1C 112M-8	1.5	4.3	710	74	73.2	68.6	0.68	20.2	1.8	1.2	2.1	4.2	61	39.1	0.01552
T1C 132S-8	2.2	6.0	720	75	75.5	71.1	0.71	29.2	2	1.2	2	5.5	64	58	0.03408
T1C 132M-8	3	7.7	720	77	77.2	72.6	0.73	39.8	2	1.2	2	5.5	64	64	0.04522
T1C 160M1-8	4	11.1	730	80	79.5	75.6	0.65	52.33	1.6	1.2	2.2	6	68	108	0.07620
T1C 160M2-8	5.5	14.63	730	83.5	81.6	77.7	0.65	71.95	1.6	1.2	2.2	6	68	124	0.09095
T1C 160L-8	7.5	19.6	730	85	82.8	79.5	0.65	98.12	1.6	1.2	2.2	6	68	136	0.10594
T1C 180L-8	11	24.1	730	88	87.3	84.9	0.75	143.9	2	1.4	2	6	70	174	0.25695
T1C 200L-8	15	29.7	730	89	89.3	88	0.82	196.2	1.6	1.3	2.2	7	73	220	0.36146925
T1C 225S-8	18.5	37.1	735	90	88.8	87.2	0.80	240.4	1.6	1.3	2	6	73	285	0.49077762
T1C 225M-8	22	43.9	735	90.5	90.4	89.1	0.80	285.9	1.6	1.3	2	6	73	310	0.588850097
T1C 250M-8	30	59.5	735	91	91.9	90.8	0.80	389.8	1.6	1.0	1.8	6	75	395	1.020084976
T1C 280S-8	37	74.8	740	91.5	91.2	90.5	0.78	477.5	1.9	1.2	2	6.5	76	523	1.889789448
T1C 280M-8	45	90.5	740	92	92.3	90.8	0.78	580.7	1.9	1.2	2	6.5	76	575	2.26007525
T1C 315S-8	55	106.9	740	92.8	92.5	91.2	0.80	709.8	2	1.3	2	6.5	82	842	3.893736952
T1C 315M-8	75	145.5	740	93	92.6	91.1	0.80	967.9	2	1.3	2	6.5	82	998.8	5.267854396
T1C 315L1-8	90	173.1	740	93.8	93.9	92.3	0.80	1161.5	2	1.3	2	6.5	82	1096.8	6.264106443
T1C 315L2-8	110	211.1	740	94	93.2	92.2	0.80	1419.6	2	1.3	2	6.5	82	1191.2	7.441495226
T1C 355M1-8	132	254.2	740	93.7	93.6	92.5	0.80	1703.5	1.8	1.3	2	6.5	90	1496.8	8.86978
T1C 355M2-8	160	306.4	740	94.2	93.6	92.3	0.80	2064.9	1.8	1.3	2	6.5	90	1592	10.04236
T1C 355L-8	200	381.8	740	94.5	93.1	92.5	0.80	2581.1	1.8	1.3	2	6.5	90	1752	12.28093

3.3 T2C Series IE2 Efficiency Motors Technical Data

Model	Output (kW)	Rated current (A)	Rotation speed (r/min)	Efficiency 100% load (%)	Efficiency 75% load (%)	Efficiency 50% load (%)	Power factor (Φ)	Rated torque (N.m)	T _{st} /T _n (Times)	T _{min} /T _n (Times)	T _{max} /T _n (Times)	I _{st} /I _n (Times)	Noise (dB)	Net weight (kg)	Moment of inertia(kg·m ²)
T2C 801-2	0.75	1.73	2840	77.4	77.5	73.8	0.81	2.52	2.5	2.1	2.6	6	67	14.5	0.00084
T2C 802-2	1.1	2.43	2880	79.6	80.5	78.6	0.82	3.65	2.5	1.8	2.6	7.5	67	16.5	0.00119
T2C 90S-2	1.5	3.25	2880	81.3	81.9	81.0	0.82	4.97	2.5	1.8	2.6	7	72	18.5	0.00184
T2C 90L-2	2.2	4.60	2880	83.2	83.6	82.5	0.83	7.30	2.5	1.4	2.6	7.5	72	22.0	0.00239
T2C 100L-2	3	6.17	2890	84.6	85.5	84.0	0.83	9.91	2.5	2.0	2.8	7.5	76	33.0	0.00410
T2C 112M-2	4	7.65	2910	85.8	85.3	82.7	0.88	13.13	2.5	1.8	2.8	9.5	77	41.0	0.00607
T2C 132S1-2	5.5	10.37	2910	87	88.1	86.0	0.88	18.05	2.4	1.8	2.8	8.5	80	59.5	0.01251
T2C 132S2-2	7.5	13.96	2920	88.1	89.0	87.3	0.88	24.53	2.5	1.8	2.8	10	80	64.0	0.01613
T2C 132M1-2	9.2	17.13	2920	88.1	88.9	87.0	0.88	30.09	2.5	1.4	3.0	10	80	71.0	0.01758
T2C 160M1-2	11	19.73	2930	89.4	89.5	89.0	0.90	35.85	2.5	1.4	2.8	8.5	86	113.0	0.04561
T2C 160M2-2	15	26.64	2940	90.3	90.0	88.8	0.90	48.72	2.5	1.3	2.8	9	86	124.0	0.06206
T2C 160L-2	18.5	32.64	2940	90.9	91.3	90.0	0.90	60.09	2.5	1.4	2.8	9.5	86	140.0	0.07528
T2C 180M-2	22	38.6	2945	91.3	91.2	89.8	0.90	71.34	2.5	1.4	2.8	9	89	168.0	0.08110
T2C 200L1-2	30	52.3	2945	92	92.1	90.9	0.90	97.3	2.0	1.3	2.5	7	92	235.0	0.14253
T2C 200L2-2	37	64.2	2945	92.5	91.5	92.3	0.90	120.0	2.5	1.5	2.5	7.5	92	246.0	0.16466
T2C 225M-2	45	77.7	2950	92.9	92.4	91.6	0.90	145.7	2.5	1.3	2.4	7.5	92	321.0	0.24906
T2C 250M-2	55	94.6	2960	93.2	93.5	92.0	0.90	177.4	2.3	1.4	2.6	8.5	93	419.0	0.43328
T2C 280S-2	75	128.2	2960	93.8	93.7	92.4	0.90	242.0	2.5	1.8	2.6	9	94	571.0	0.79186
T2C 280M-2	90	153.4	2960	94.1	94.3	93.2	0.90	290.4	2.5	1.8	2.6	9.5	94	638.0	0.90716
T2C 315S-2	110	187.1	2960	94.3	94.5	93.2	0.90	354.9	2.0	1.4	2.3	6	96	927.0	1.50928
T2C 315M-2	132	223.8	2960	94.6	94.8	93.4	0.90	425.9	2.0	1.4	2.3	6	96	1006.0	1.67962
T2C 315L1-2	160	270.7	2960	94.8	95.0	93.7	0.90	516.2	2.0	1.4	2.3	6	99	1060.0	1.87385
T2C 315L2-2	200	337.6	2960	95	95.3	93.9	0.90	645.3	1.8	1.3	2.3	5.5	99	1130.0	2.13283
T2C 355M1-2	220	371.4	2960	95	95.5	93.8	0.90	709.8	1.8	1.3	2.3	5.5	103	1590.0	2.95585
T2C 355M2-2	250	422.0	2960	95	95.5	93.9	0.90	806.6	1.8	1.3	2.3	5.5	103	1650.0	3.14272
T2C 355L1-2	280	472.7	2960	95	95.6	93.9	0.90	903.4	1.8	1.3	2.3	5.5	103	1715.0	3.47911
T2C 355L2-2	315	531.8	2960	95	95.6	93.9	0.90	1016.3	1.8	1.3	2.3	5.5	103	1780.0	3.85287
T2C 802-4	0.75	1.92	1420	79.6	79.8	77.5	0.71	5.04	2.5	2.1	2.6	5.7	58	16.0	0.00128
T2C 90S-4	1.1	2.75	1430	81.4	81.9	79.1	0.71	7.35	2.5	2.1	2.6	6.1	61	20.0	0.00315
T2C 90L-4	1.5	3.53	1430	82.8	83.4	80.4	0.74	10.02	2.5	2.0	2.6	6.5	61	24.0	0.00411
T2C 100L1-4	2.2	4.71	1430	84.3	85.5	83.6	0.80	14.69	2.2	2.0	2.6	6.6	64	34.0	0.00883
T2C 100L2-4	3	6.33	1435	85.5	85.7	83.9	0.80	19.97	2.2	2.0	3.0	7.6	64	35.0	0.01039
T2C 112M-4	4	8.23	1435	86.6	87.2	85.5	0.81	26.62	2.2	2.0	3.0	7.9	65	45.0	0.01369
T2C 132S-4	5.5	10.91	1440	87.7	89.2	87.1	0.83	36.48	2.2	1.8	3.0	8.8	71	63.0	0.02966
T2C 132M-4	7.5	14.70	1440	88.7	89.8	87.5	0.83	49.74	2.2	1.6	3.0	9	71	77.5	0.03981
T2C 132M2-4	9.2	17.82	1440	88.7	89.9	87.5	0.84	61.01	2.2	1.6	3.0	8.8	71	85.0	0.04700
T2C 160M-4	11	21.30	1440	89.8	91.7	91.0	0.83	72.95	2.5	1.6	2.5	7.1	75	119.0	0.08670
T2C 160L-4	15	27.47	1450	90.6	91.3	90.5	0.87	98.79	2.5	1.6	2.5	8.9	75	146.0	0.11272
T2C 180M-4	18.5	34.05	1450	91.2	91.8	90.8	0.86	121.8	2.5	1.6	2.8	8.6	76	161.0	0.14084
T2C 180L-4	22	39.4	1460	91.6	92.2	91.6	0.88	143.9	2.5	1.6	2.8	8.1	76	176.0	0.16541
T2C 200L-4	30	53.3	1460	92.3	92.8	91.9	0.88	196.2	2.5	2.1	3.0	8.5	79	242.0	0.27306
T2C 225S-4	37	65.5	1470	92.7	93.9	92.6	0.88	240.4	2.2	1.3	2.3	7.6	81	315.0	0.50439
T2C 225M-4	45	78.4	1480	93.1	94.2	92.8	0.89	290.4	2.2	1.3	2.3	7.7	81	340.0	0.59389
T2C 250M-4	55	98.7	1480	93.5	94.4	93.6	0.86	354.9	2.5	1.5	2.5	8.6	83	420.0	0.70950
T2C 280S-4	75	128.0	1480	94	94.9	93.7	0.90	484.0	2.5	2.0	2.5	9	86	580.0	1.59510
T2C 280M-4	90	153.2	1480	94.2	94.9	93.7	0.90	580.7	2.5	2.0	2.5	8.7	86	650.0	1.89187
T2C 315S-4	110	190.9	1480	94.5	94.8	93.2	0.88	709.8	2.0	1.3	2.8	7.4	93	938.0	3.09253
T2C 315M-4	132	226.1	1480	94.7	95.0	93.6	0.89	851.8	2.0	1.3	2.6	7	93	1030.0	3.48345
T2C 315L1-4	160	273.4	1480	94.9	95.0	93.5	0.89	1032.4	2.0	1.3	2.6	6	97	1106.0	3.98390
T2C 315L2-4	200	341.1	1480	95.1	95.3	93.9	0.89	1290.5	2.0	1.3	2.3	6	97	1220.0	4.67201
T2C 355M1-4	220	375.2	1480	95.1	95.9	94.1	0.89	1419.6	1.8	1.3	2.3	5.5	101	1560.0	6.87200
T2C 355M2-4	250	426.3	1480	95.1	95.8	94.0	0.89	1613.2	1.8	1.3	2.3	5.5	101	1600.0	7.63820
T2C 355L1-4	280	477.5	1480	95.1	95.9	94.3	0.89	1806.8	1.8	1.3	2.3	5.5	101	1650.0	8.31927
T2C 355L2-4	315	531.2	1480	95.1	96.0	94.2	0.90	2032.6	1.8	1.3	2.3	5.5	101	1700.0	9.08547
T2C 355L3-4	355	598.7	1480	95.1	96.0	94.2	0.90	2290.7	1.8	1.3	2.3	5.5	101	1780.0	10.10708
T2C 90S-6	0.75	2.23	935	75.9	76.4	73.8	0.64	7.66	2.0	1.8	2.2	5	57	19.6	0.00360
T2C 90L-6	1.1	2.99	935	78.1	78.6	77.6	0.68	11.24	2.0	1.8	2.2	5	57	23.5	0.00536
T2C 100L-6	1.5	3.72	940	79.8	80.2	78.3	0.73	15.24	1.6	1.6	2.2	5	61	32.0	0.00877
T2C 112M-6	2.2	5.39	940	81.8	82.5	79.0	0.72	22.35	2.0	1.8	2.5	6	65	39.0	0.01468
T2C 132S-6	3	6.93	940	83.3	84.0	82.2	0.75	30.48	1.6	1.5	2.2	6	69	54.0	0.03039
T2C 132M1-6	4	9.22	950	84.6	85.1	83.5	0.74	40.21	2.0	1.6	2.5	6	69	65.0	0.03785
T2C 132M2-6	5.5	12.47	950	86	86.8	85.4	0.74	55.29	2.0	1.8	2.5	7	69	66.0	0.04890
T2C 160M-6	7.5	17.5	960	87.2	88.3	86.7	0.71	74.6	2.5	1.8	2.8	9	73	112.0	0.08726
T2C 160L-6	11	23.9	960	88.7	88.6	87.5	0.75	109.4	2.5	1.4	2.8	9	73	132.6	0.12069
T2C 180L-6	15	30.9	960	89.7	90.8	89.3	0.78	149.2	2.5	1.5	2.8	9	73	179.0	0.25695
T2C 200L1-6	18.5	36.9	970	90.4	91.0	89.8	0.80	182.1	2.0	1.4	2.8	9	76	221.4	0.36147
T2C 200L2-6	22	42.6	970	90.9	91.5	90.1	0.82	216.6	2.5	1.8	2.8	10	76	240.6	0.42742
T2C 225M-6	30	55.6	975	91.7	92.3	91.2	0.85	293.8	2.5	1.5	2.2	9	76	335.0	0.67058
T2C 250M-6	37	69.0	975	92.2	93.0	91.8	0.84	362.4	1.8	1.3	2.2	7	78	391.4	0.99243
T2C 280S-6	45	82.4	980	92.7	92.7	91.9	0.85	438.5	2.3	1.4	2.3	8.5	80	514.0	1.78548
T2C 280M1-6	55	99.2	980	93.1	93.2	92.2	0.86	536.0	2.5	1.7	2.8	9	80	584.0	2.20792
T2C 315S-6	75	135.9	980	93.7	94	92.3	0.85	730.9	2.0	1.3	2.3	7	85	807.0	3.25976
T2C 315M-6	90	162.6	980	94	94.6	92.3	0.85	877.0	2.0	1.3	2.3	7	85	913.0	3.90933
T2C 315L1-6	110	198.1	980	94.3	94.8	92.4	0.85	1071.9	2.0	1.3	2.3	7	85	966.0	4.54331
T2C 315L2-6	132	236.9	980	94.6	94.9	92.4	0.85	1286.3	2.0	1.3	2.3	6.5	85	1080.0	5.53956
T2C 355M1-6	160	286.6	980	94.8	94.9	92.5	0.85	1559.2	2.0	1.3	2.3	6.5	92	1537.0	8.97637
T2C 355M2-6	200	357.5	980	95	95	92.6	0.85	1949.0	2.0	1.3	2.3	6.5	92	1720.0	11.00175
T2C 355L-6	250	446.9	980	95	95.2	92.6	0.85	2436.2	2.0	1.3	2.3	6.5	92	1880.0	13.56011

3.4 T3C Series IE3 Efficiency Motors Technical Data

Model	Output (kW)	Rated current (A)	Rotation speed (r/min)	Efficiency 100% load (%)	Efficiency 75% load (%)	Efficiency 50% load (%)	Power factor (Φ)	Rated torque (N.m)	T _{st} /T _n (Times)	T _{min} /T _n (Times)	T _{max} /T _n (Times)	I _{st} /I _n (Times)	Noise (dB)	Net weight (kg)	Moment of inertia (kg·m ²)
T3C 100L-6	1.5	3.55	940	82.5	83.0	81.6	0.74	15.24	2.0	1.7	2.2	5.2	61	33.50	0.00972
T3C 112M-6	2.2	5.38	940	84.3	85.0	83.2	0.70	22.35	2.0	1.8	2.2	6.2	65	40.00	0.01637
T3C 132S-6	3	6.84	940	85.6	86.1	84.5	0.74	30.48	2.0	1.7	2.2	6	69	59.00	0.03223
T3C 132M1-6	4	8.99	950	86.8	87.6	85.2	0.74	40.21	2.0	1.6	2.5	7	69	75.50	0.04338
T3C 132M2-6	5.5	12.71	950	88	88.8	86.9	0.71	55.29	2.3	1.8	2.5	7.5	69	76.30	0.05443
T3C 160M-6	7.5	16.2	960	89.1	90.3	88.0	0.75	74.6	2.3	1.4	2.8	7.5	73	112.00	0.08726
T3C 160L-6	11	23.1	960	90.3	91.2	88.5	0.76	109.4	2.5	1.4	2.8	8.5	73	134.00	0.13544
T3C 180L-6	15	30.1	960	91.2	92.0	90.3	0.79	149.2	2.5	1.4	2.8	8	73	184.50	0.27973
T3C 200L1-6	18.5	36.4	970	91.7	92.3	90.6	0.80	182.1	2.5	1.4	2.8	9.5	76	231.00	0.38345
T3C 200L2-6	22	42.5	970	92.2	93.0	91.3	0.81	216.6	2.5	1.5	2.8	10	76	249.00	0.44941
T3C 225M-6	30	53.0	975	92.9	93.8	90.9	0.88	293.8	1.8	1.5	2.2	7	76	339.00	0.67058
T3C 250M-6	37	67.3	975	93.3	94.0	91.8	0.85	362.4	1.8	1.3	2.0	7	78	399.40	0.99243
T3C 280S-6	45	83.5	980	93.7	94.6	92.7	0.83	438.5	2.5	1.8	2.8	10	80	551.00	2.20274
T3C 280M1-6	55	99.3	980	94.1	95.0	93.4	0.85	536.0	2.5	1.8	2.8	10	80	624.30	2.57302
T3C 315S-6	75	139.6	980	94.6	94.8	93.2	0.82	730.9	2.0	1.3	2.3	7.5	85	860.00	3.80317
T3C 315M-6	90	166.9	980	94.9	95	93.4	0.82	877.0	2.0	1.3	2.3	7.5	85	970.00	4.45274
T3C 315L1-6	110	203.6	980	95.1	95.4	94	0.82	1071.9	2.0	1.3	2.3	7.5	85	1070.00	5.53956
T3C 315L2-6	132	243.6	980	95.4	95.7	94.2	0.82	1286.3	2.0	1.3	2.3	7.5	85	1196.00	6.62638
T3C 355M1-6	160	294.6	980	95.6	95.8	94.3	0.82	1559.2	2.0	1.3	2.3	7.5	92	1537.00	8.97637
T3C 355M2-6	200	367.5	980	95.8	95.8	94.3	0.82	1949.0	2.0	1.3	2.3	7.5	92	1720.00	11.00175
T3C 355L1-6	220	404.2	980	95.8	96	94.2	0.82	2143.9	2.0	1.3	2.3	7.5	92	1800.00	11.64134
T3C 355L-6	250	459.3	980	95.8	96	94.3	0.82	2436.2	2.0	1.3	2.3	7.5	92	1880.00	13.56011
T3C 801-2	0.75	1.68	2880	80.7	81.0	76.2	0.80	2.49	2.5	2.1	2.8	7.5	67	15.20	0.00093
T3C 802-2	1.1	2.40	2880	82.7	83.5	81.6	0.80	3.65	2.5	1.8	2.8	8	67	17.10	0.00128
T3C 90S-2	1.5	3.06	2880	84.2	84.9	84.0	0.84	4.97	2.5	1.8	2.8	8.5	72	21.5	0.00224
T3C 90L-2	2.2	4.45	2880	85.9	86.4	84.7	0.83	7.30	2.5	1.8	2.8	8.6	72	24.6	0.00279
T3C 100L-2	3	5.65	2900	87.1	88.5	86.8	0.88	9.88	2.5	2.0	2.8	9.5	76	35.5	0.00496
T3C 112M-2	4	7.28	2910	88.1	88.5	87.1	0.90	13.13	2.5	2.0	2.8	10.5	77	44.5	0.00744
T3C 132S1-2	5.5	10.11	2910	89.2	90.2	88.6	0.88	18.05	2.5	2.0	3.0	10	80	63.2	0.01468
T3C 132S2-2	7.5	13.50	2920	90.1	90.8	89.3	0.89	24.53	2.5	1.5	3.0	10	80	70.2	0.01903
T3C 132M1-2	9.2	16.47	2920	90.6	91.2	89.5	0.89	30.09	2.5	1.5	3.0	10	80	76.8	0.02048
T3C 160M1-2	11	19.34	2930	91.2	93.8	93.0	0.90	35.85	2.5	1.4	3.0	9.5	86	118.0	0.05178
T3C 160M2-2	15	26.18	2940	91.9	93.1	92.9	0.90	48.72	2.5	1.4	3.0	10	86	128.0	0.06206
T3C 160L-2	18.5	31.76	2940	92.4	93.5	93.3	0.91	60.09	2.5	1.4	3.0	9.5	86	144.00	0.07669
T3C 180M-2	22	38.5	2945	92.7	94.1	93.6	0.89	71.34	2.5	1.4	3.0	9	89	183.40	0.09665
T3C 200L1-2	30	52.1	2945	93.3	93.8	93.2	0.89	97.3	2.5	1.5	2.5	8.5	92	247.00	0.17351
T3C 200L2-2	37	64.0	2945	93.7	94.4	94.2	0.89	120.0	2.5	1.5	2.5	8.5	92	268.00	0.20008
T3C 225M-2	45	75.9	2950	94	94.6	94.1	0.91	145.7	2.5	1.4	2.5	8.5	92	369.00	0.34366
T3C 250M-2	55	93.5	2960	94.3	94.5	93.1	0.90	177.4	2.5	1.4	2.6	10	93	428.00	0.44434
T3C 280S-2	75	125.6	2960	94.7	94.9	93.7	0.91	242.0	2.5	1.8	2.6	10	94	587.30	0.82911
T3C 280M-2	90	150.3	2960	95	95.2	94.3	0.91	290.4	2.5	1.8	2.6	10	94	655.00	0.98168
T3C 315S-2	110	185.3	2960	95.2	95.5	94.6	0.90	354.9	2.0	1.4	2.3	7	96	980.00	1.70352
T3C 315M-2	132	221.9	2960	95.4	95.5	94.7	0.90	425.9	2.0	1.4	2.3	7	96	1100.00	1.93860
T3C 315L1-2	160	267.8	2960	95.8	95.8	94.5	0.90	516.2	2.0	1.4	2.3	7	99	1155.00	2.19758
T3C 315L2-2	200	334.8	2960	95.8	96.0	94.7	0.90	645.3	2.0	1.4	2.3	7	99	1260.00	2.55368
T3C 355M1-2	220	394.6	2960	95.8	96.2	94.8	0.84	709.8	2.0	1.5	2.3	6.5	103	1590.00	2.95585
T3C 355M2-2	250	448.4	2960	95.8	96.2	94.8	0.84	806.6	2.0	1.5	2.3	6.5	103	1650.00	3.14272
T3C 355L1-2	280	502.2	2960	95.8	96.2	94.8	0.84	903.4	2.0	1.5	2.3	6.5	103	1715.00	3.47911
T3C 355L2-2	315	558.3	2960	95.8	96.2	94.8	0.85	1016.3	2.0	1.5	2.3	6.5	103	1780.00	3.85287
T3C 802-4	0.75	1.90	1420	82.5	82.8	80.6	0.69	5.04	2.8	2.2	2.8	6.3	58	18.20	0.00155
T3C 90S-4	1.1	2.62	1430	84.1	84.6	83.2	0.72	7.35	2.8	2.2	2.8	6.8	61	23.00	0.00372
T3C 90L-4	1.5	3.63	1430	85.3	86.1	85.2	0.70	10.02	2.8	2.2	3.0	7.3	61	26.30	0.00469
T3C 100L1-4	2.2	4.52	1430	86.7	87.8	85.2	0.81	14.69	2.8	2.2	3.0	8	64	35.50	0.00922
T3C 100L2-4	3	6.33	1435	87.7	88.0	85.9	0.78	19.97	2.5	2.2	3.0	8.2	64	38.50	0.01195
T3C 112M-4	4	7.95	1440	88.6	88.9	87.5	0.82	26.53	2.5	2.2	3.0	8.6	65	47.00	0.01545
T3C 132S-4	5.5	10.67	1440	89.6	90.9	88.9	0.83	36.48	2.5	1.8	3.0	9	71	68.30	0.03397
T3C 132M-4	7.5	14.09	1440	90.4	91.3	91.2	0.85	49.74	2.5	1.6	3.0	9	71	79.00	0.04412
T3C 132M2-4	9.2	17.19	1440	90.9	91.8	90.5	0.85	61.01	2.5	1.6	3.0	9	71	87.50	0.04700
T3C 160M-4	11	20.68	1450	91.4	92.2	91.7	0.84	72.45	2.5	1.3	3.0	10	75	127.00	0.10355
T3C 160L-4	15	27.33	1450	92.1	92.9	92.2	0.86	98.8	2.5	1.3	2.8	8.5	75	160.00	0.13750
T3C 180M-4	18.5	33.5	1460	92.6	93.6	93.0	0.86	121.0	2.5	1.8	3.0	9	76	169.40	0.15530
T3C 180L-4	22	39.2	1460	93	93.7	92.9	0.87	143.9	2.5	1.8	3.0	10	76	196.00	0.19433
T3C 200L-4	30	57.1	1470	93.6	93.7	93.2	0.81	194.9	2.5	1.8	2.8	9	79	252.00	0.29441
T3C 225S-4	37	65.4	1470	93.9	95.2	94.3	0.87	240.4	2.5	1.4	2.5	9.2	81	324.50	0.57838
T3C 225M-4	45	79.3	1470	94.2	95.2	94.5	0.87	292.3	2.5	1.5	2.5	9	81	352.90	0.65309
T3C 250M-4	55	95.4	1470	94.6	95.2	94.5	0.88	357.3	2.5	1.8	2.5	8.5	83	427.40	0.76504
T3C 280S-4	75	131.0	1480	95	95.1	94.8	0.87	484.0	2.5	1.8	2.8	10	86	673.30	1.99603
T3C 280M-4	90	160.5	1480	95.2	95.1	95.0	0.85	580.7	2.5	1.8	2.8	10	86	692.00	2.18345
T3C 315S-4	110	189.1	1480	95.4	95.7	94.6	0.88	709.8	2.2	1.5	2.6	9	93	1027.00	3.71808
T3C 315M-4	132	226.5	1480	95.6	95.8	95.0	0.88	851.8	2.2	1.5	2.6	9	93	1155.00	4.29667
T3C 315L1-4	160	273.9	1480	95.8	96.0	95.1	0.88	1032.4	2.2	1.5	2.6	9	97	1240.00	5.10990
T3C 315L2-4	200	337.9	1480	96	96.2	95.3	0.89	1290.5	2.2	1.5	2.6	9	97	1400.00	6.17334
T3C 355M1-4	220	371.7	1480	96	96.2	95.3	0.89	1419.6	2.0	1.3	2.3	8	101	1560.00	7.04227
T3C 355M2-4	250	422.3	1480	96	96.3	95.4	0.89	1613.2	2.0	1.3	2.3	8	101	1600.00	7.63820
T3C 355L1-4	280	473.0	1480	96	96.4	95.4	0.89	1806.8	2.0	1.3	2.3	8	101	1650.00	8.31927
T3C 355L2-4	315	532.1	1480	96	96.3	95.5	0.89	2032.6	2.0	1.3	2.3	8	101	1700.00	9.34080
T3C 90S-6	0.75	2.05	935	78.9	79.6	77.2	0.67	7.66	2.0	1.8	2.2	5	57	21.50	0.00435
T3C 90L-6	1.1	2.97	940	81	81.5	80.2	0.66	11.18	2.3	1.8	2.2	5.2	57	25.50	0.00611

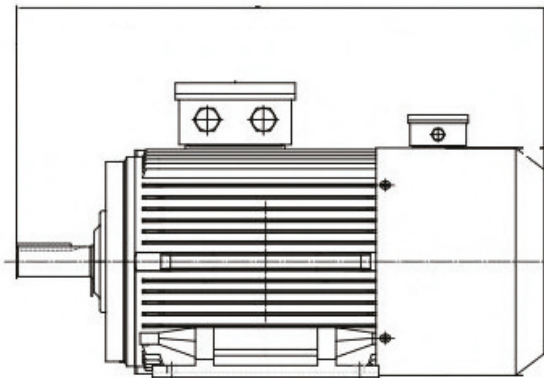
4. Auxiliary Fans

All frame sizes can be supplied with cooling system IC 416 (forced ventilation) on request In this case a proper fan is fitted inside the fan cover, suitably reinforced. Consequently the ventilation is independent of the rotation speed of the motor itself. This solution is particularly suitable for inverter supplied motors.

In the following table shown to what ncreases the dimension L when independent ventilation is mounted. When encoder is mounted with independent ventilation dimension L does not change remains the of the motor with independent ventilation.

TYPE	MS SERIES (mm)	TA SERIES (mm)	TC SERIES (mm)
63	92	92	-
71	92	105	-
80	98	110	-
90	97	110	-
100	103	120	-
112	93	125	-
132	109	120	120
160	-	145	130
180	-	-	130
200	-	-	140
225	-	-	160
250	-	-	167
280	-	-	175
315	-	-	205
355	-	-	205

L standard motor+measure indicated in the table



5. Thermal Protection

All the Techtot motors from frame size 160 to frame size 355 have installed the positive temperature coefficient thermistors PTC, these protections at the active temperature this device quickly changes its standard resistance value, these protection, upon request, will be installed from frame size 56 to frame size 132.

Resistance of PTC, for nominal operating temperature (TK), will be satisfy the following value:

- < 250 Ohm from temperature from -20°C to TK-20°C
- < 550 Ohm at a temperature of TK-5°C
- > 1330 Ohm at a temperature of TK+5°C
- > 4000 Ohm at a temperature of TK+15°C

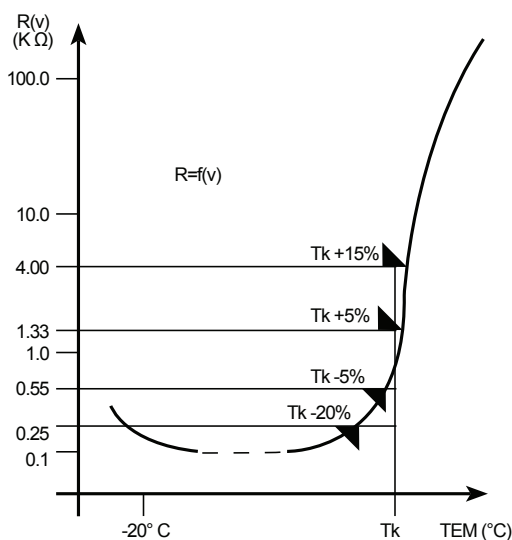
In line with the standards, PTC installed disengaged for resistance value from 1650 Ohm to 4000 Ohm, in our case, installed n. 3 PTC in series, disengaged takes in the temperature range from TK-5°C to TK+5°C.

Values of TK related with the class of insulation are the following:

CLASS OF INSULATION	OPERATING TEMPERATURE LIMIT OF THE INSULATION °C	TK °C
A	105	95-100
E	120	110-115
B	130	120-125
F	155	145-150
H	180	170-175

The nominal operating temperature of the thermistors PTC, mounted on the Techtot motors is 150' C, maximum supply voltage of the PTC theristors is 2,5V.

Below the characteristic resistance/ temperature of the PTC thermistors:



Upon request, the following thermal protection devices can be installed on the motors:

Bimetallic devices

Motor protectors with contact normally closed. The contact opens when the winding temperature reaches limits dangerous to the insulation system of the motor.

Platinum resistance thermometers PT100

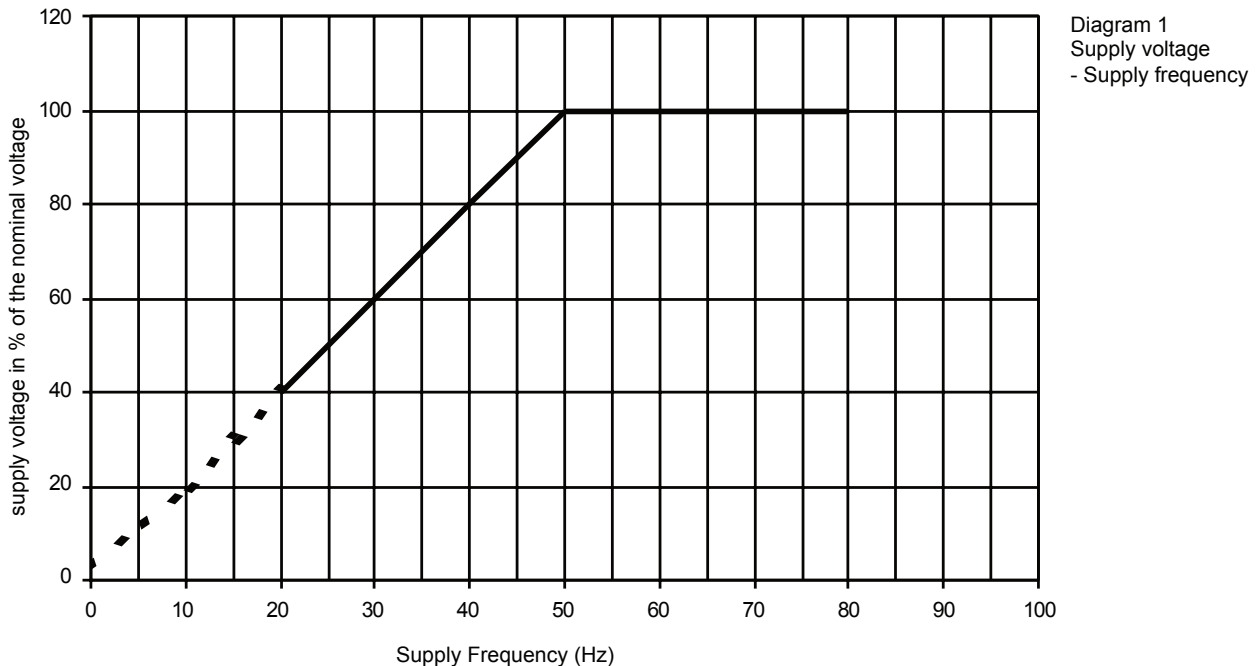
Variable linear resistance with the winding temperature. Device particularly suitable for a continuous winding temperature monitoring.

The protection is normally made by 3 sensitive elements, one for every phase, series connected and with two terminals in a specially provided terminal board located in the main terminal box or in a specially provided auxiliary terminal box.

6. Inverter Supply

Techtop motors series MS,TA,TC are designed to be supplied by inverter.

These motors can be driven up to the rated frequency (50Hz) with supply voltage proportional to the frequency. (See diagr. 1), at higher frequencies they can be supplied at constant voltage



By the type of supply shown in diagr. 1, the flux created by the stator windings will be constant from 0 frequency to 50 Hz frequency, at frequencies higher than 50 Hz, the flux will be lower than the maximum nominal value.

Note: At low frequencies (0~10Hz.) due to the voltage drops, in order to keep the flux constant, the supply voltage should be slightly increased. This voltage increase depends both on the motor type and on the inverter type.

Consequently the motors in standard execution (self ventilating code IC411) are able to run at constant torque between 40 and 50 Hz and at constant power in the section included between 50 and indicated value on the diagram 4.

Upon request, the MS,TA,TC series motors can be equipped with an auxiliary fan (code IC 416), in this case they can supply a constant torque between 0 and 50 Hz and a constant power in the section included between 50 and indicated value on the diagram 4.

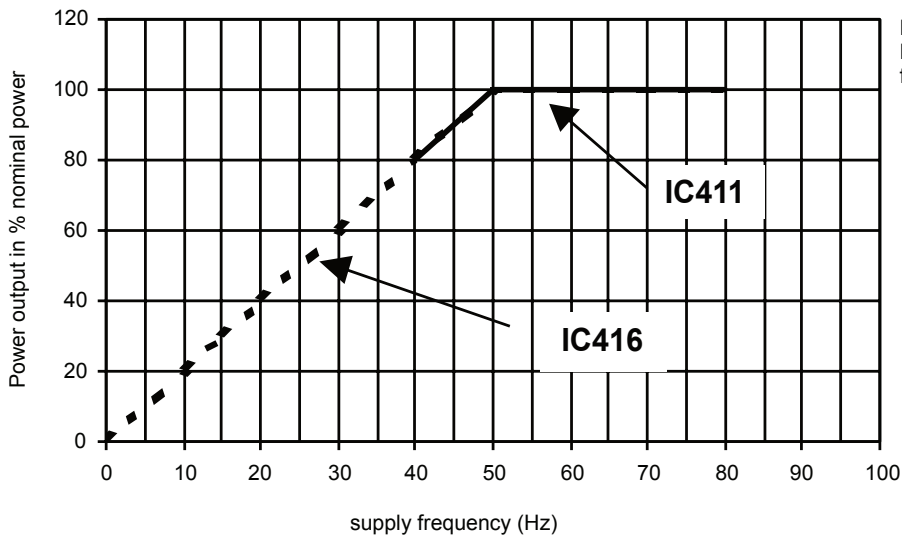


Diagram 2
Power output - supply frequency

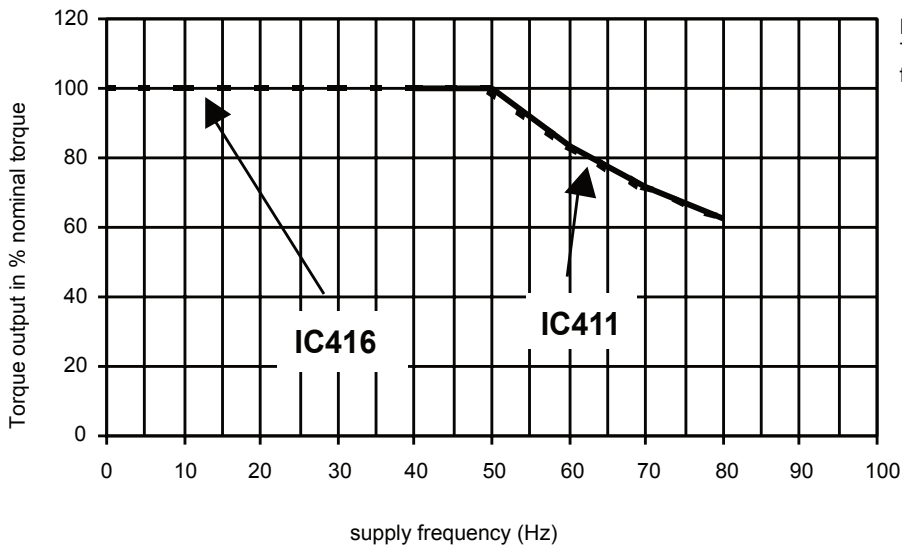


Diagram 3
Torque output - supply frequency

The asynchronous three-phase motors to be used for inverter supply are designed and manufactured based on design and manufacturing choices that allow an optimum and reliable operation.

It has to be considered that generally the inverter supplies the asynchronous motor with a non sinusoidal current having a certain harmonic contents. This is due in particular: to the type of inverter, to the value of the switch frequency, to the length of the supply cables.

Moreover steep voltage fronts to the motor terminals (dv/dt) originated by the short commutation times of the IGBT, generate considerable stresses on the insulating materials.

Consequently the motor insulation must be carried out with the utmost care because it has to be able to withstand such higher stresses.

7. Bearings

Motors TA and MS series from frame size 56 to frame size 200 have sealed pre-lubricated ball bearings, DE and NDE side, C3. Motors TC series frame size 132 have sealed pre-lubricated ball bearings, DE and NDE side, C3. Motors TC series from frame size 160 to frame size 280 (including 315 2 pole) have ball bearings, DE and NDE, C3. Motors TC series from frame size 315 (4,6,8 pole) to frame size 355, have roller bearings DE side and ball bearings NDE side.

All non pre-lubricated bearings need to periodically re-lubricated according to the data give in the motors maintenance manual! Motor with bearing axial constrains have an arrangement with a spring in order to absorb vibrations.

The lifetime of bearings (in accordance with supplier data) is in excess of 40.000 hours, for motors with direct coupling.

In table are mentioned all specifications concerning bearings installed on motors frame size 56-355

MOTOR TYPE	Bearing		Oil seals
	Drive end	Non-drive end	dxDxB
MS 56	6201-2RS	6201-2RS	12x22x5
MS 63	6201-2RS	6201-2RS	12x24x5
MS 71	6202-2RS	6202-2RS	15x25x7
MS 80	6204-2RS	6204-2RS	20x34x7
MS 90	6205-2RS	6205-2RS	25x37x7
MS 100	6206-2RS	6206-2RS	30x44x7
MS 112	6306-2RS	6206-2RS	30x44x7
MS 132	6308-2RS	6208-2RS	40x58x7
MS 160	6309-2RS	6309-2RS	45x65x8
MS 180	6311-2RS	6211-2RS	55x72x8
MS 200	6312-2RS	6212-2RS	60x80x8
TA 56	6201-2RS	6201-2RS	12x22x5
TA 63	6201-2RS	6201-2RS	12x22x5
TA 71	6202-2RS	6202-2RS	15x25x7
TA 80	6204-2RS	6204-2RS	20x34x7
TA 90	6205-2RS	6205-2RS	25x37x7
TA 100	6206-2RS	6206-2RS	30x44x7
TA 112	6306-2RS	6206-2RS	30x44x7
TA 132	6308-2RS	6208-2RS	40x58x7
TA 160	6309-2RS	6209-2RS	45x65x8
TA 180	6311-2RS	6211-2RS	55x72x8
TA 200	6312-2RS	6212-2RS	60x80x8

MOTOR TYPE	Bearing		Oil seals
	Drive end	Non-drive end	dxDxB
TC 80	6204-2RS	6204-2RS	20x34x7
TC 90	6205-2RS	6205-2RS	25x37x7
TC 100	6206-2RS	6206-2RS	30x44x7
TC 112	6306-2RS	6306-2RS	30x44x7
TC 132	6308-2RS	6308-2RS	40x58x7
TC 160	6309C3	6309C3	45x65x8
TC 180	6311C3	6311C3	55x75x8
TC 200	6312C3	6312C3	60x80x8
TC 225	6313C3	6313C3	65x90x10
TC 250	6314C3	6314C3	70x95x10
TC 280	6316C3	6316C3	80x100x10
TC 315-2	6317C3	6317C3	85x110x12
TC 315-4/6/8	NU319	6319C3	95x120x12
TC 355-2	6319C3	6319C3	95x120x12
TC 355-4/6/8	NU322	6322C3	110x130x12

Upon request can be mounted, roller bearings at DE side, where non-standard, insulated bearings at NDE side , and reinforced bearings at NDE side.

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