32. TA SERIES - Three-Phase Asynchronous single speed motors

Electrical data (50Hz) Efficiency IE3 - 2 poles

Frame size	Power(Kw)	rpm (rpm/min)	Current In(A) 400V	Eff. (%)	Power factor (cosφ)	Torque Cn (Nm)	Is/In	Cs/Cn	Cmin./Cn	Cmax/Cn
T3A 801-2	0.75	2848	1.79	80.7	0.75	2.51	6	2.7	2.1	2.8
T3A 802-2	1.1	2846	2.43	82.7	0.79	3.69	6.7	2.7	2.1	2.9
T3A 90S-2	1.5	2852	3.06	84.2	0.84	5.02	6.1	2.3	2	2.7
T3A 90L-2	2.2	2845	4.40	85.9	0.84	7.38	7	2.6	2.1	2.7
T3A 100L-2	3	2851	5.59	87.1	0.89	10.05	7.6	2.5	2	2.8
T3A 112M-2	4	2910	7.36	88.1	0.89	13.13	7.8	2.5	2	2.7
T3A 132S1-2	5.5	2905	10.00	89.2	0.89	18.08	7.8	2.4	2	2.9
T3A 132S2-2	7.5	2910	13.65	90.1	0.88	24.61	7.9	2.7	2	2.8
T3A 160M1-2	11	2920	19.34	91.2	0.90	35.97	7.9	2.2	2.1	3
T3A 160M2-2	15	2918	25.89	91.9	0.91	49.09	7.9	2.3	2.1	3
T3A 160L-2	18.5	2922	31.41	92.4	0.92	60.46	8	2.4	2.1	2.9
T3A 180M-2	22	2930	38.49	92.7	0.89	71.70	7.5	2.3	2	2.8
T3A 200L1-2	30	2925	52.74	93.3	0.88	97.94	6.7	2.4	2	2.7
T3A 200L2-2	37	2930	63.33	93.7	0.90	120.59	6,3	2.3	2	2.7

Electrical data (50Hz) Efficiency IE3 - 4 poles

Frame size	Power(Kw)	rpm (rpm/min)	Current In(A) 400V	Eff. (%)	Power factor (cosφ)	Torque Cn (Nm)	Is/In	Cs/Cn	Cmin./Cn	Cmax/Cn
T3A 802-4	0.75	1420	1.73	82.5	0.76	5.04	5.4	2.3	2.1	2.9
T3A 90S-4	1.1	1425	2.42	84.1	0.78	7.37	5.9	2.3	2.1	2.7
T3A 90L-4	1.5	1420	3.21	85.3	0.79	10.09	6.4	2.4	2	2.7
T3A 100L1-4	2.2	1430	4.47	86.7	0.82	14.69	6.6	2.4	2.1	2.9
T3A 100L2-4	3	1430	6.17	87.7	0.80	20.03	6.9	2.4	2	2.8
T3A 112M-4	4	1435	8.25	88.6	0.79	26.62	7.9	2.5	2	3
T3A 132S-4	5.5	1430	10.81	89.6	0.82	36.73	7.1	2.3	2	2.8
T3A 132M-4	7.5	1430	14.43	90.4	0.83	50.08	7.8	2.3	2	2.7
T3A 160M-4	11	1440	19.09	91.4	0.91	72.95	7.9	2.5	2.1	2.8
T3A 160L-4	15	1445	25.55	92.1	0.92	99.13	7.8	2.4	2.1	2.9
T3A 180M-4	18.5	1445	33.15	92.6	0.87	122.26	7.8	2.4	2.1	3
T3A 180L-4	22	1460	38.37	93	0.89	143.89	7.5	2.3	2	3
T3A 200L-4	30	1460	52.57	93.6	0.88	196.22	7.9	2.4	2	2.7

Electrical data (50Hz) Efficiency IE3 - 6 poles

Frame size	Power(Kw)	rpm (rpm/min)	Current In(A) 400V	Eff. (%)	Power factor (cosϕ)	Torque Cn (Nm)	Is/In	Cs/Cn	Cmin./Cn	Cmax/Cn
T3A 90S-6	0.75	935	1.81	78.9	0.76	7.66	6.2	2.2	2	2
T3A 90L-6	1.1	935	2.45	81	0.80	11.23	6	2.3	2.1	2.1
T3A 100L-6	1.5	940	3.20	82.5	0.82	15.24	5.8	2.3	2.1	2.1
T3A 112M-6	2.2	940	4.71	84.3	0.80	22.35	6.4	2.3	2.1	2.1
T3A 132S-6	3	940	6.09	85.6	0.83	30.48	6.3	2.4	2.2	2.2
T3A 132M1-6	4	945	7.92	86.8	0.84	40.42	6.2	2.5	2	2
T3A 132M2-6	5.5	945	11.00	88	0.82	55.58	6.8	2.3	1.9	1.9
T3A 160M-6	7.5	955	14.46	89.1	0.84	74.99	7	2.4	1.9	1.9
T3A 160L-6	11	960	20.69	90.3	0.85	109.42	7.3	2.5	2	2
T3A 180L-6	15	960	28.60	91.2	0.83	149.21	7.8	2.3	2.1	2.1
T3A 200L1-6	18.5	965	34.26	91.7	0.85	183.07	7.8	2.4	2.1	2.1
T3A 200L2-6	22	965	40.05	92.2	0.86	217.70	7.9	2.3	1.9	1.9

35. TA SERIES - Weight TA IE3

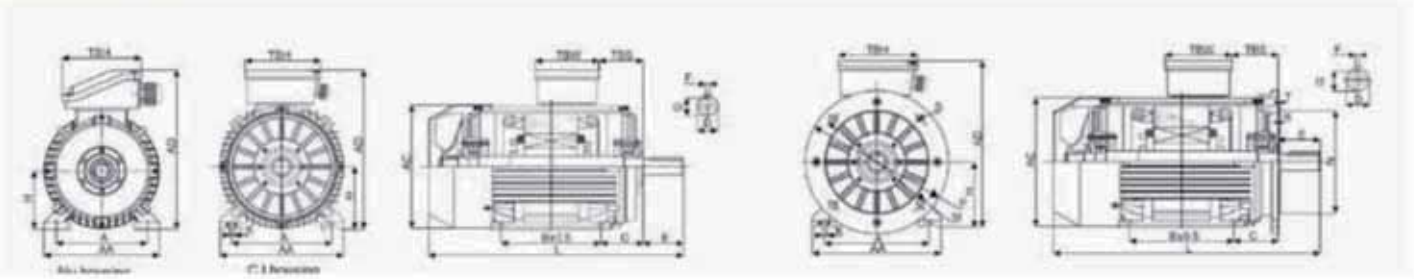
Frame size	Kw	Weight kg				
		B3	B14	B5	B34	B35
801-2	0,75	11,40	11,40	11,52	12,00	12,00
802-2	1,1	12,48	12,48	12,72	13,20	13,20
90S-2	1,5	16,20	16,20	16,80	18,00	18,00
90L-2	2,2	19,44	19,44	21,00	20,40	20,40
100L-2	3	26,76	26,76	30,00	30,60	30,60
112M-2	4	34,44	34,44	37,20	36,00	36,00
132S1-2	5,5	54,48	54,48	55,80	56,40	56,40
132S2-2	7,5	60,00	60,00	61,80	62,40	62,40
160M1-2	11	94,80	94,80	98,76	100,20	100,20
160M2-2	15	109,20	109,20	110,16	111,72	111,72
160L-2	18,5	121,20	121,20	122,40	123,48	123,48
180M-2	22	153,60		154,56		156,00
200L1-2	30	189,60		184,44		184,80
200L2-2	37	217,56		218,40		220,44

Frame size	Kw	Weight kg				
		B3	B14	B5	B34	B35
802-4	0,75	12,60	12,60	13,20	13,80	13,80
90S-4	1,1	17,16	17,16	17,40	17,52	17,52
90L-4	1,5	21,60	21,60	21,60	22,20	22,20
100L1-4	2,2	28,08	28,08	28,80	30,00	30,00
100L2-4	3	31,56	31,56	33,60	34,20	34,20
112M-4	4	42,24	42,24	44,40	43,20	43,20
132S-4	5,5	59,28	59,28	60,00	61,80	61,80
132M-4	7,5	74,76	74,76	74,40	75,60	75,60
160M-4	11	99,60	99,60	100,80	101,88	101,88
160L-4	15	122,40	122,40	123,12	124,92	124,92
180M-4	18,5	142,80		143,52		145,44
180L-4	22	166,80		167,40		168,48
200L-4	30	203,04		203,76		205,56

Frame size	Kw	Weight kg				
		B3	B14	B5	B34	B35
90S-6	0,75	15,60	15,60	15,84	16,68	16,68
90L-6	1,1	19,20	19,20	19,92	20,88	20,88
100L-6	1,5	24,00	24,00	25,80	26,76	26,76
112M-6	2,2	37,20	37,20	38,40	39,24	39,24
132S-6	3	51,60	51,60	52,80	53,88	53,88
132M1-6	4	62,40	62,40	63,60	65,04	65,04
132M2-6	5,5	70,20	70,20	71,64	73,56	73,56
160M-6	7,5	94,20	94,20	95,28	96,36	96,36
160L-6	11	118,08	118,08	119,40	121,20	121,20
180L-6	15	171,84		173,16		174,60
200L1-6	18,5	190,44		191,76		192,96
200L2-6	22	200,16		201,00		202,92

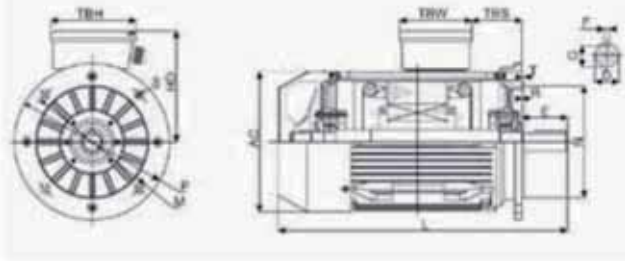
36. TA SERIES - Overall and installation dimensions

Miasures in mm

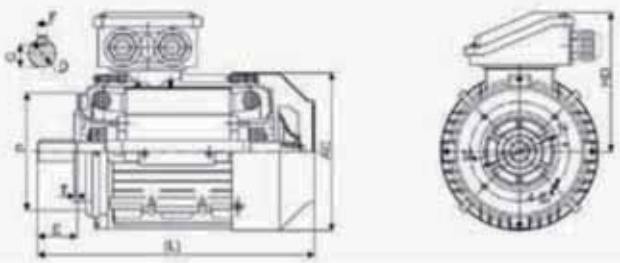


IM B3

IM B3/B5



IM B5

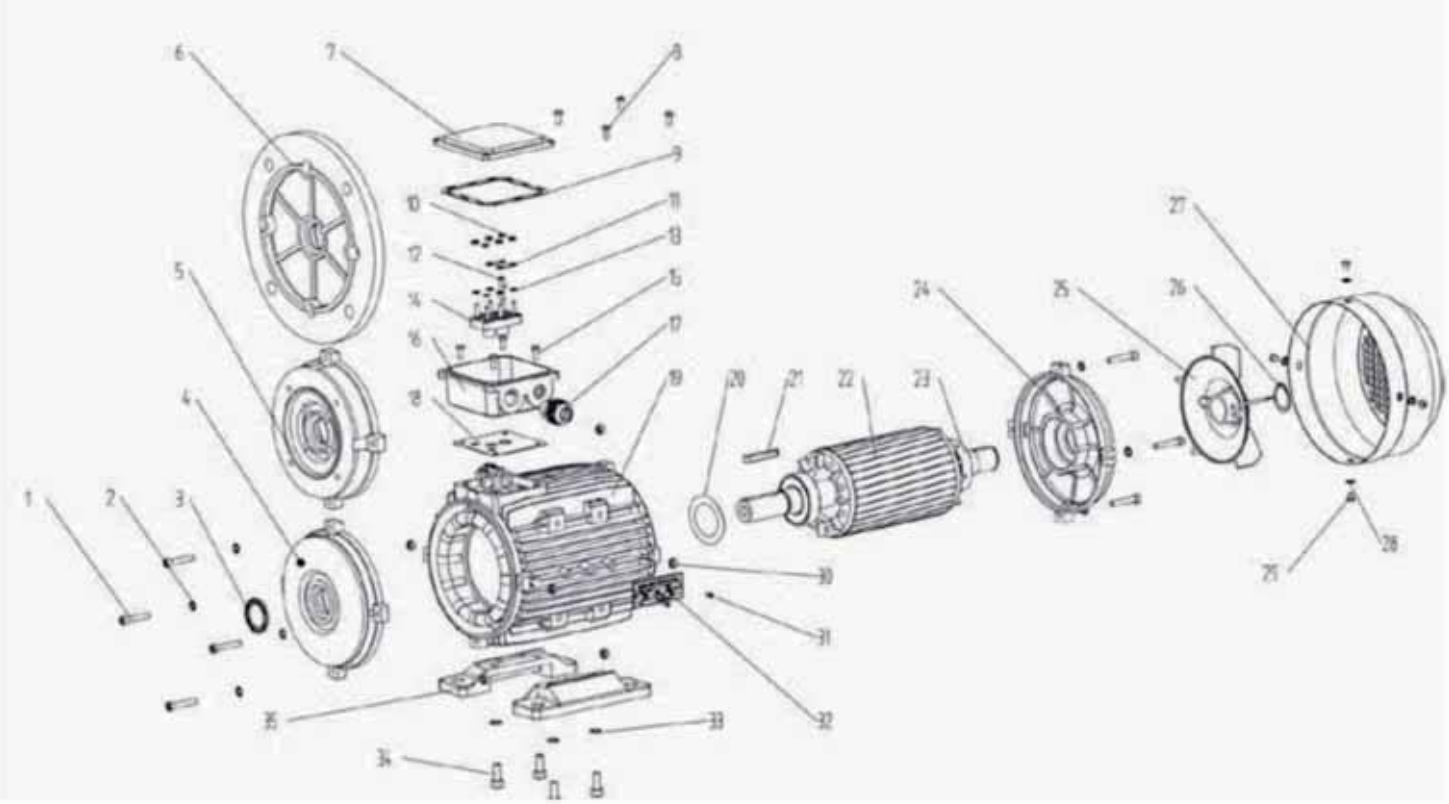


IM B14

Frame size	B3				Shaft					General							
	H	A	B	C	D	E	F	G	K	AA	AD	HD	AC	L	TBS	TBW	TBH
80	80	125	100	50	Ø19	40	6	15.5	Ø9	160	220	140	158	280	16	97	97
90S/L	90	140	100/125	56	Ø24	50	8	20	Ø10	175	240	150	176	325/350	16	97	97
100	100	160	140	63	Ø28	60	8	24	Ø12	200	265	165	199	388	20	118	118
112	112	190	140	70	Ø28	60	8	24	Ø12	230	291	179	220	405	29	118	118
132S/M	132	216	140/178	89	Ø38	80	10	33	Ø12	255	332	200	259	467/505	29	118	118
160M/L	160	254	210/254	108	Ø42	110	12	37	Ø15	314	402	242	313	605/650	91	162	187
180M/L	180	279	241/279	121	Ø48	110	14	42.5	Ø15	348	439	259	360	687/725	160/180	162	187
200L	200	318	305	133	Ø55	110	16	49	Ø19	388	497	297	399	768	192	186	233

Frame size	B5						B14					
	N	M	P	S	T	R	N	M	P	S	T	R
80	130	165	198	4-Ø12	3.5	0	80	100	118	M6	3	0
90S/L	130	165	198	4-Ø12	3.5	0	95	115	138	M8	3	0
100	180	215	250	4-Ø15	4	0	110	130	158	M8	3.5	0
112	180	215	250	4-Ø15	4	0	110	130	158	M8	3.5	0
132S/M	230	265	300	4-Ø15	4	0	130	165	198	M10	3.5	0
160M/L	250	300	350	4-Ø19	5	0						0
180M/L	250	300	350	4-Ø19	5	0						0
200L	300	350	400	4-Ø19	5	0						0

37. TA SERIES - Exploded view, spare parts list



1. Screw
2. Gasket
3. Oil seal
4. DE endshleld
5. B14 nang
6. B5 nange
7. Terminal box cover
8. Terminal box fixing screws
9. Terminal box upper gasket
10. Terminal box fixing nut
11. Terminal bridge
12. Terminal pin
13. Terminal shim
14. Terminal board
15. Terminal box fixing screws
16. Terminal box Dase
17. Cable gland
18. Terminal box bottomgaskel
19. Frame
20. Preload washer
21. Key
22. Rotor
23. Bearing
24. NDE endshield
25. Cooling fan
26. Fan circlip
27. Fan cover
28. Fan cover fixing shim
29. Fan cover fixing screws
30. Endshield fixing nul
31. Rivet
32. Nameplate
33. Foot fixing nut
34. Foot fixing screws
35. Foot