

INDUSTRIAL ELECTRIC MOTORS

PRODUCT CATALOGUE 2026

Reliable motor solutions for European and international markets.

THREE-PHASE | BRAKE | SINGLE-PHASE | OEM

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Company Introduction

VEL Motor is a European electric motor manufacturer with factory and production operations in Greece, EU. We focus on dependable, efficient and application-oriented motor solutions for industrial customers, OEMs, machinery manufacturers and distribution partners.

Our portfolio includes aluminium housing three-phase motors, cast iron motors, brake motors, single-phase motors and selected geared motor solutions for pumps, fans, conveyors, reducers, machine tools and general industrial machinery.

Commercial coordination is supported from Izmir, Turkiye, while production and factory operations are based in Greece, EU. This structure enables responsive technical communication, flexible project support and long-term supply planning for European and international customers.

GREECE, EU PRODUCTION

Factory and production operations in Greece, EU, supporting European and international supply.

INDUSTRIAL RELIABILITY

Motor solutions developed for dependable operation, long service life and practical industrial compatibility.

OEM & PROJECT FLEXIBILITY

Adaptable configurations for machinery manufacturers, distributors and project-based supply requirements.

CORPORATE INFORMATION

G.E.M.I Registration No: 190230001000 | Tax Number: 803128722
Production / Factory: Greece, EU | Sales Office: Izmir, Turkiye
Sales: sales@velmotor.com.tr



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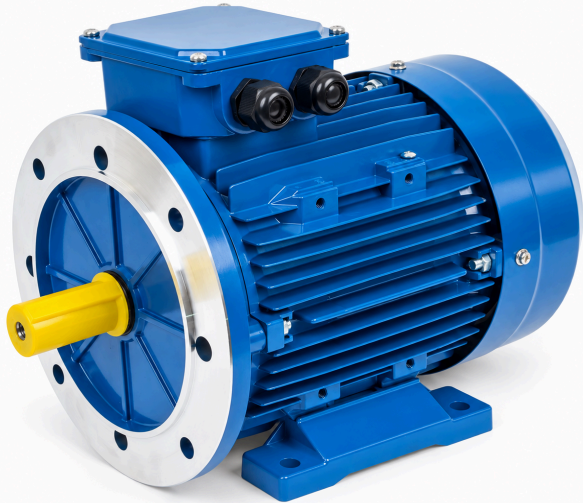


VEL-AL-TRI

VEL1 / VEL2 / VEL3 - THREE-PHASE ALUMINIUM HOUSING INDUCTION MOTORS

The VEL-AL-TRI platform is developed for general industrial duty, combining compact aluminium construction, dependable performance and flexible installation. It is suitable for pumps, fans, compressors, conveyors, reducers and a wide range of machinery applications.

- IEC-compatible construction
- Lightweight aluminium housing
- Reliable continuous-duty performance
- Multiple efficiency variants: VEL1 / VEL2 / VEL3



VEL1-AL-TRI Technical Data (50 Hz)

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*m²)
		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



VEL1-AL-TRI Technical Data (50 Hz)

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·m²)
		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	1455	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	0.78	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	0.75	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	670	55.8	52.5	44.4	0.56	2.3	2.5	2.4	2.8	52	6.90	0.001026
MS801-8	0.18	1.24	0.72	0.41	1.18	0.68	0.39	1.13														



VEL2-AL-TRI Technical Data (50 Hz)

Model	Power (kW)	Current(A)			Current(A)			Current(A)			Speed (r/min)	Eff. (%)	Power Factor (cos φ)	Tst/Tn (Times)	Tmax/Tn (Times)	Tmin/Tn (Times)	Is/In (Times)	Noise dB(A)	W.T (kg)	Inertia kg*m²
		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



VEL3-AL-TRI Technical Data (50 Hz)

Model	Power (kW)	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)	Inertia kg·m²
		220V	380V	660V	230V	400V	690V	240V	415V	720V		100%	75%	50%								
MS3 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
MS3 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
MS3 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
MS3 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
MS3 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
MS3 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
MS3 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
MS3 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
MS3 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
MS3 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
MS3 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
MS3 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
MS3 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
MS3 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
MS3 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
MS3 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
MS3 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	0.018966
MS3 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
MS3 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
MS3 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
MS3 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
MS3 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
MS3 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
MS3 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
MS3 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
MS3 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
MS3 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
MS3 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
MS3 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
MS3 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
MS3 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
MS3 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
MS3 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
MS3 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
MS3 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

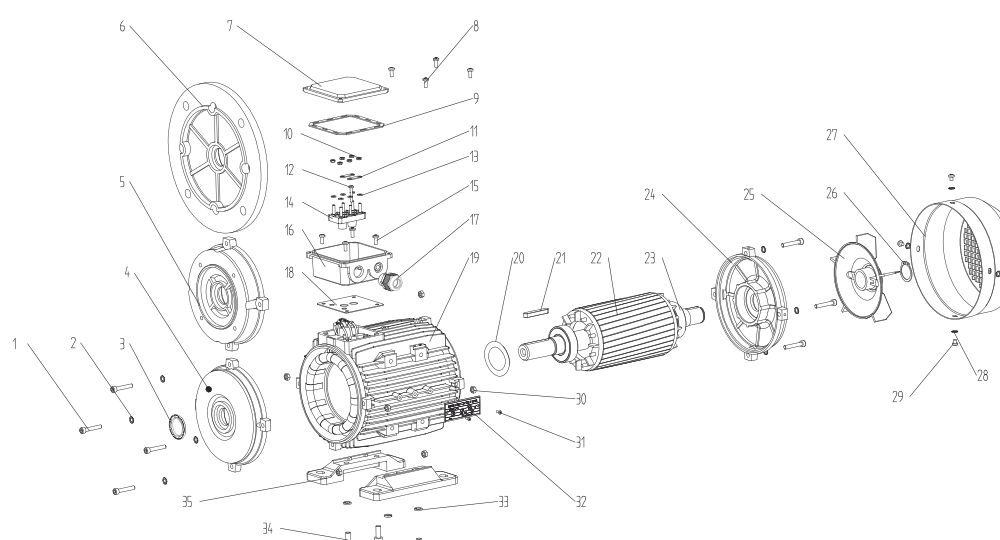
VEL3-AL-TRI Technical Data (50 Hz)

MS3 Series IE3 Efficiency Motors Technical Data (at 50HZ)

Model	Power (kw)	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)	Inertia kg*m²
		220V	380V	660V	230V	400V	690V	240V	415V	720V		100%	75%	50%								
MS3 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
MS3 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
MS3 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
MS3 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
MS3 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
MS3 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
MS3 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
MS3 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
MS3 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
MS3 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
MS3 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
MS3 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
MS3 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
MS3 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
MS3 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
MS3 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
MS3 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
MS3 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
MS3 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
MS3 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
MS3 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
MS3 100L2-6	2.2	9.54	5.51	3.18	9.06	5.23	3.02	8.73	5.04	2.91	955	84.3	85.1	83.9	0.72	2.5	3	2.3	6.2	64	27.7	0.012725
MS3 112M-6	2.2	10.1	5.83	3.37	9.59	5.54	3.20	9.25	5.34	3.08	965	84.3	84.5	83.2	0.68	2	2.5	1.8	5.5	64	27.1	0.017675
MS3 112M2-6	3	13.4	7.72	4.46	12.7	7.33	4.23	12.2	7.07	4.08	965	85.6	86.2	84.8	0.69	2.5	2.9	1.9	6.3	64	33.1	0.021400
MS3 132S-6	3	12.5	7.20	4.15	11.8	6.84	3.95	11.4	6.59	3.80	965	85.6	86	85.1	0.74	2	2.7	1.7	6	64	38.6	0.033804
MS3 132M1-6	4	16.4	9.46	5.46	15.6	8.99	5.19	15.0	8.66	5.00	970	86.8	87.1	86.2	0.74	2.3	3	1.8	6.8	68	47.6	0.043946
MS3 132M2-6	5.5	23.2	13.4	7.72	22.0	12.7	7.34	21.2	12.2	7.07	975	88	88.3	87.1	0.71	2.9	3.5	2.2	7.4	68	55.7	0.053987
MS3 132M3-6	7.5	30.8	17.8	10.3	29.2	16.9	9.74	28.2	16.3	9.39	970	89.1	89.6	88.6	0.72	3.3	3.2	2	8.3	68	67.6	0.070723
MS3 160M-6	7.5	29.1	16.8	9.72	27.7	16.0	9.23	26.7	15.4	8.90	975	89.1	89.5	88.5	0.76	2.2	2.9	1.8	7.3	68	79.6	0.109012
MS3 160L-6	11	41.1	23.7	13.7	39.0	22.5	13.0	37.6	21.7	12.5	975	90.3	90.8	89.9	0.78	2.7	2.9	1.2	8.4	73	105	0.154850
MS3 180L-6	15	52.1	30.1	17.4	49.5	28.6	16.5	47.7	27.6	15.9	960	91.2	90.9	89.4	0.83	2.3	2.9	2.1	7.8	79	125.2	0.275157
MS3 200L1-6	18.5	66.4	38.3	22.1	63.0	36.4	21.0	60.8	35.1	20.3	980	91.7	91.5	90.1	0.80	2.7	3.7	2.2	9.8	82	143	0.332066
MS3 200L2-6	22	78.5	45.3	26.2	74.6	43.1	24.9	71.9	41.5	24.0	980	92.2	92	90.6	0.80	2.9	3.7	2.3	10.5	82	162	0.388316

VEL Aluminium Housing Motors - Construction & Mounting

Motor Spare Part List "Exploded Drawing"



1. Endshield fixing screws

2. Gasket

3. Oil seal

4. Front endshield

5. B14 flange

6. B5 flange

7. TB cover

8. TB fixing screws

9. TB upper gasket

10. Terminal board fixing nut

11. Terminal bridge

12. Terminal pin

13. Terminal shim

14. Terminal board

15. TB fixing screws

16. TB base

17. Cable gland

18. TB bottomgasket

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 nut

31. Rivet

32. Nameplate

33. Foot fixing nut

34. Foot fixing screws

35. Foot

This catalogue is only a reference for users.

The concrete data be changed please contact with us before ordering.

Mountings and Positions

Mountings and positions for standard motors, according to IEC 60034-7, are defined by the codes mentioned in the following table.

	Standards			Frame Sizes
	CEI 2-14	IEC 60034-7		
		Code I	Code II	56-200
	B3	IM B3	IM 1001	Standard
	B3/B5	IM B35	IM 2001	Standard
	B5	IM B5	IM 3001	Standard
	B14	IM B14	IM 4001	Standard
	B8	IM B8	IM 1071	Upon request
	B6	IM B6	IM 1051	Upon request
	B7	IM B7	IM 1061	Upon request

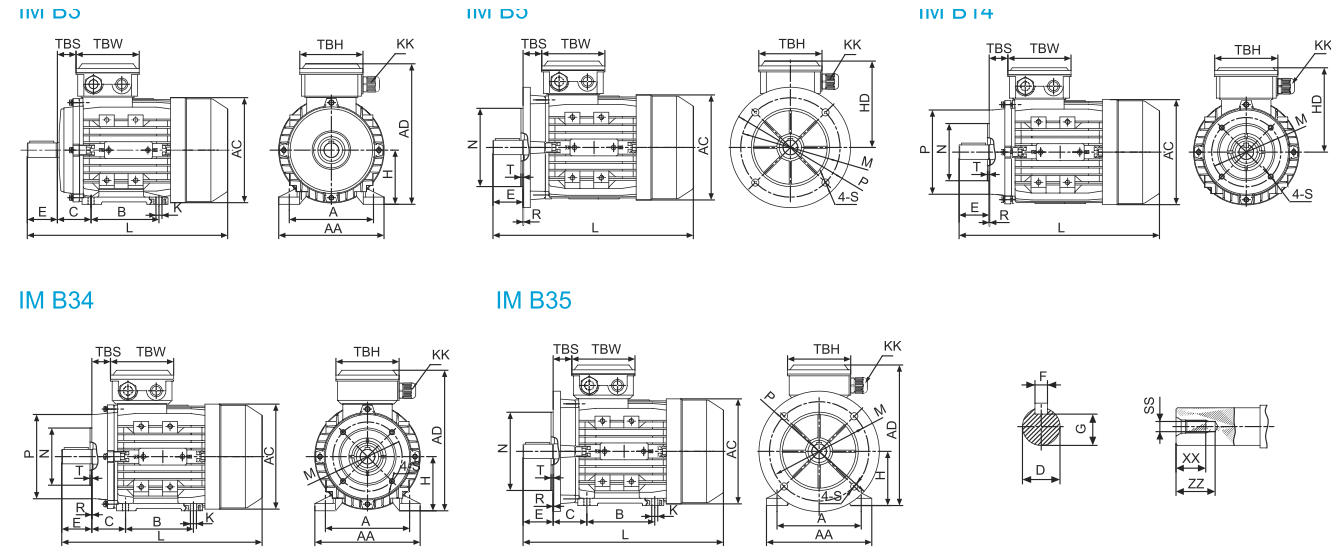
	Standards			Frame Sizes
	CEI 2-14	IEC 60034-7		
		Code I	Code II	56-200
	V1	IM V1	IM 3011	Standard
	V3	IM V3	IM 3031	Upon request
	V5	IM V5	IM 1011	Upon request
	V6	IM V6	IM 1031	Upon request
	V1/V5	IM V15	IM 2011	Upon request

Aluminum Housing Electric Motors Bearings & Oil Seals

Frame	Bearings		Oil Seals	
	Drive End	Non-drive End	Drive End	Non-drive End
63	6201	6201	12×24×5	12×24×5
71	6202	6202	15×25×7	15×25×7
80	6204	6204	20×34×7	20×34×7
90S	6205	6205(6204)※※	25×37×7	25×37×7(20×34×7)
90L	6205	6205(6204)※※	25×37×7	25×37×7(20×34×7)
100L	6206	6206	30×44×7	30×44×7
112M	6306	6206(6306)	30×44×7	30×44×7
132S	6308	6208(6308)	40×58×7	40×58×7
132M/L	6308	6208(6308)	40×58×7	40×58×7
160M	6309	6309	45×65×8	45×65×8
160L	6309	6309	45×65×8	45×65×8
180M	6311	6211	55×72×8	55×72×8
180L	6311	6211	55×72×8	55×72×8
200L	6312	6212	60×80×8	60×80×8



VEL-AL-TRI Dimensional Data



Installation Dimension

Frame	Foot Mounting					Shaft							General										
	H	A	B	C	K	D	E	F	G	SS	XX	ZZ	AA	AD	HD	AC	L	LCCL °	KK	TBS	TBW	TBH	
56	56	90	71	36	5.8X8.8	Ø9	20	3	7.2	M3	9	12	110	156	100	Ø117	196	232	1-M16X1.5	14	88	88	
63	63	100	80	40	7X10	Ø11	23	4	8.5	M4	10	14	120	171	108	Ø130	220	258	1-M16X1.5	14	94	94	
71**	71	112	90	45	7X10	Ø14	30	5	11	M5	12	17	132	186	115	Ø147	241(255)	282(296)	1-M20X1.5	20	94	94	
80	80	125	100	50	10X13	Ø19	40	6	15.5	M6	16	21	160	213	133	Ø163	290	339	1-M20X1.5	27	105	105	
90S	90	140	100	56	10X13	Ø24	50	8	20	M8	19	25	175	229	139	Ø183	312	361	1-M20X1.5	30	105	105	
90L1/L2	90	140	125	56	10X13	Ø24	50	8	20	M8	19	25	175	229	139	Ø183	337/367	386/416	1-M20X1.5	30	105	105	
100**	100	160	140	63	12X15	Ø28	60	8	24	M10	22	30	198	252	152	Ø205	369(387)	425(443)	2-M20X1.5	26	105	105	
112	112	190	140	70	12X15	Ø28	60	8	24	M10	22	30	220	279	167	Ø229	395	463	2-M25X1.5	32	112	112	
132S	132	216	140	89	12X15	Ø38	80	10	33	M12	28	37	252	318	186	Ø265	437	497	2-M25X1.5	38	112	112	
132M/L	132	216	178	89	12X15	Ø38	80	10	33	M12	28	37	252	318	186	Ø265	475/501	535/561	2-M25X1.5	38	112	112	
160M/L	160	254	210/254	108	15X19	Ø42	110	12	37	M16	36	45	290	384	224	Ø325	640	697	2-M32X1.5	64	143	143	
180M/L	180	279	241/279	121	15X25	Ø48	110	14	42.5	M16	36	45	340	440	260	Ø368	730		2-M32X1.5	73	190	190	
200L	200	318	305	133	19X29	Ø55	110	16	49	M20	42	53	390	460	260	Ø368	745		2-M40X1.5	85	190	190	

Frame	B5						B5R						B14						B14B					
	M	N	P	T	S	R	M	N	P	T	S	R	N	M	P	T	S	R	N	M	P	T	S	R
56	Ø100	Ø80	Ø120	3.0	Ø7	0							Ø50	Ø65	Ø80	2.5	M5	0						
63	Ø115	Ø95	Ø140	3.0	Ø10	0							Ø60	Ø75	Ø90	2.5	M5	0	Ø80	Ø100	Ø120	3.0	M6	0
71 ☆☆	Ø130	Ø110	Ø160	3.5	Ø10	0	Ø115	Ø95	Ø140	3.5	Ø10	0	Ø70	Ø85	Ø105	2.5	M6	0	Ø95	Ø115	Ø140	3.0	M8	0
80	Ø165	Ø130	Ø200	3.5	Ø12	0	Ø130	Ø110	Ø160	3.5	Ø10	0	Ø80	Ø100	Ø120	3.0	M6	0	Ø110	Ø130	Ø160	3.5	M8	0
90S	Ø165	Ø130	Ø200	3.5	Ø12	0	Ø130	Ø110	Ø160	3.5	Ø10	0	Ø95	Ø115	Ø140	3.0	M8	0	Ø110	Ø130	Ø160	3.5	M8	0
90L1/L2	Ø165	Ø130	Ø200	3.5	Ø12	0	Ø130	Ø110	Ø160	3.5	Ø10	0	Ø95	Ø115	Ø140	3.0	M8	0	Ø110	Ø130	Ø160	3.5	M8	0
100 ☆☆	Ø215	Ø180	Ø250	4.0	Ø15	0	Ø165	Ø130	Ø200	4.0	Ø12	0	Ø110	Ø130	Ø160	3.5	M8	0	Ø130	Ø165	Ø200	3.5	M10	0
112	Ø215	Ø180	Ø250	4.0	Ø15	0	Ø165	Ø130	Ø200	4.0	Ø12	0	Ø110	Ø130	Ø160	3.5	M8	0	Ø130	Ø165	Ø200	3.5	M10	0
132S	Ø265	Ø230	Ø300	4.0	Ø15	0	Ø215	Ø180	Ø250	4.0	Ø15	0	Ø130	Ø165	Ø200	4.0	M10	0	Ø180	Ø215	Ø250	4.0	M12	0
132M/L	Ø265	Ø230	Ø300	4.0	Ø15	0	Ø215	Ø180	Ø250	4.0	Ø15	0	Ø130	Ø165	Ø200	4.0	M10	0	Ø180	Ø215	Ø250	4.0	M12	0
160M/L	Ø300	Ø250	Ø350	5.0	Ø19	0							Ø180	Ø215	Ø250	4.0	M12	0						
180M/L	Ø300	Ø250	Ø350	5.0	Ø19	0																		
200L	Ø350	Ø300	Ø400	5.0	Ø19	0																		

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



VEL-CI-TRI

VEL1 / VEL2 / VEL3 - THREE-PHASE CAST IRON INDUCTION MOTORS

VEL-CI-TRI is designed for demanding industrial environments where strength, rigidity and long-term durability are essential. The robust cast iron housing supports heavy-duty applications requiring mechanical resistance and stable operating performance.



- Robust cast iron body
- High mechanical durability
- IEC-compatible construction
- VEL1 / VEL2 / VEL3 efficiency variants

VEL1-CI-TRI Technical Data (400 V / 50 Hz)

Model	Output (kW)	Rated current (A)	Rotation speed(r/min)	Efficiency 100% load (%)	Efficiency 75% load (%)	Efficiency 50% load (%)	Power factor (Φ)	Rated torque (Nm)	Tstart/Tn (Times)	Tmin/Tn (Times)	Tmax/Tn (Times)	Is/In (Times)	Nosie (dB)	Net weight (kg)	Moment of inertia(kg*m ²)
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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



VEL1-CI-TRI Technical Data (400 V / 50 Hz)

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 _{max} /T _n (Times)	T _{max} /T _n (Times)	I _{st} /I _n (Times)	Nosie (dB)	Net weight (kg)	Moment of inertia(kg*mm ²)
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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



VEL1-CI-TRI Technical Data (400 V / 50 Hz)

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)	Nosie (dB)	Net weight (kg)	Moment of inertia(kg·m ²)
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 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
Y2 180L-8	11	24.1	730	88	87.3	84.9	0.75	143.9	2	1.4	2	6	70	174	0.25695
Y2 200L-8	15	29.7	730	89	89.3	88	0.82	196.2	1.6	1.3	2.2	7	73	220	0.36147
Y2 225S-8	18.5	37.1	735	90	88.8	87.2	0.80	240.4	1.6	1.3	2	6	73	285	0.49078
Y2 225M-8	22	43.9	735	90.5	90.4	89.1	0.80	285.9	1.6	1.3	2	6	73	310	0.58885
Y2 250M-8	30	59.5	735	91	91.9	90.8	0.80	389.8	1.6	1.0	1.8	6	75	395	1.02008
Y2 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	1.88979
Y2 280M-8	45	90.5	740	92	92.3	90.8	0.78	580.7	1.9	1.2	2	6.5	76	575	2.26008
Y2 315S-8	55	106.9	740	92.8	92.5	91.2	0.80	709.8	2	1.3	2	6.5	82	842	3.89374
Y2 315M-8	75	145.5	740	93	92.6	91.1	0.80	967.9	2	1.3	2	6.5	82	998.8	5.26785
Y2 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	6.26411
Y2 315L2-8	110	211.1	740	94	93.2	92.2	0.80	1419.6	2	1.3	2	6.5	82	1191.2	7.44150
Y2 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
Y2 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
Y2 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



VEL2-CI-TRI Technical Data (400 V / 50 Hz)

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)	Tst /Tn (Times)	Tmin/Tn (Times)	Tmax/Tn (Times)	Ist/In (Times)	Nosie (dB)	Net weight (kg)	Moment of inertia(kg*m ²)
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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



VEL2-CI-TRI Technical Data (400 V / 50 Hz)

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)	Tst /Tn (Times)	Tmin/Tn (Times)	Tmax/Tn (Times)	Ist/In (Times)	Nosie (dB)	Net weight (kg)	Moment of inertia(kg·m ²)
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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
YE2 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



VEL3-CI-TRI Technical Data (400 V / 50 Hz)

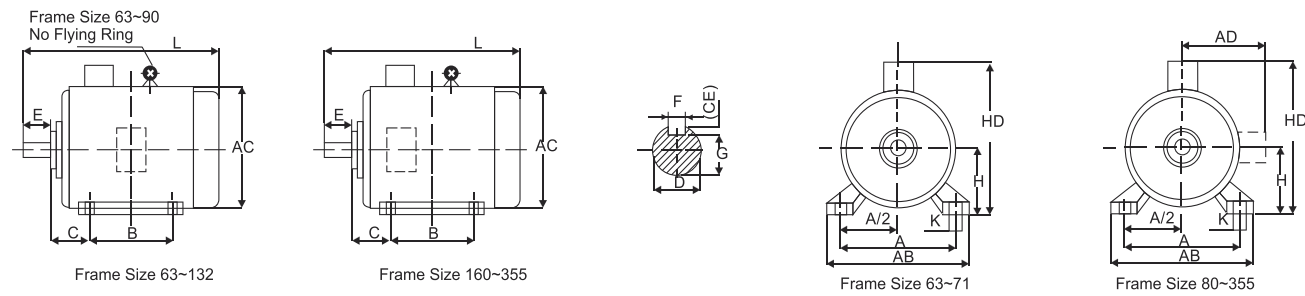
Model	Output (kW)	Rated current (A)	Rotation speed (r/min)	Efficiency 100% load(%)	Efficiency 75% load(%)	Efficiency 50% load(%)	Power factor(Φ)	Rated torque(N.m)	Tst / Tn (Times)	Tmin/ Tn (Times)	Tmax/ Tn (Times)	Ist/In (Times)	Nosie (dB)	Net weight (kg)	Moment of inertia(kg*m ²)
YE3 801-2	0.75	1.68	2880	80.7	81.0	76.2	0.80	2.49	2.5	2.1	2.8	7.5	67	15.20	0.00093
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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



VEL3-CI-TRI Technical Data (400 V / 50 Hz)

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)	Tst/Tn (Times)	Tmin/Tn (Times)	Tmax/Tn (Times)	Ist/In (Times)	Nosie (dB)	Net weight (kg)	Moment of inertia(kg·m²)
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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	0.4494
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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
YE3 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

IM B3

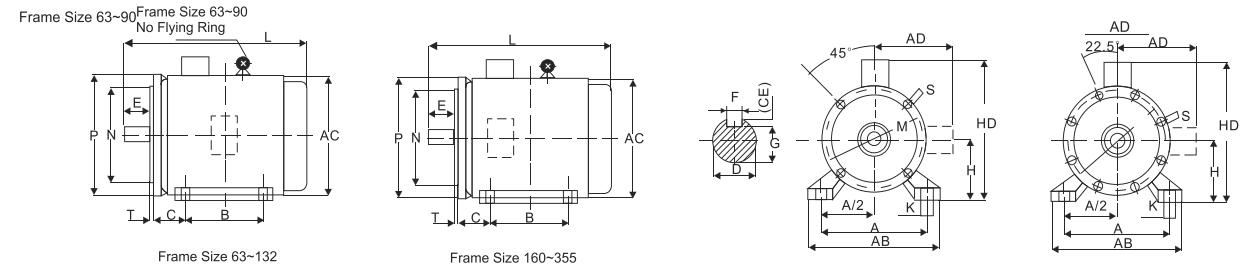


Installation Dimension

Frame No.	Poles	Mounting Dimensions & Tolerance																Frame Dimensions										
		A	A/2	B	C		D		E		F		G ¹⁾		H		K ²⁾		AB	AC	AD	HD	L					
80	2,4,6,8	125	62.5	100	50	±1.5	19	+0.009 -0.004	40	±0.31	6	15.5	0 -0.10	80	10	+0.036 0	165	175	145	220	295							
90S		140	70	100	56		24		50		8			20			90	205	215	180	250	270	385					
90L				125			60		0															100	230	240	190	300
100L		160	80	140	63	±2.0	28	60	±0.37	0 -0.036	24	100	0 -0.5	12	270	275	210	345	470									
112M		190	95	140	70		38													80	10	33	112	132	510			
132S		216	108	140	89	±3.0	38	+0.018 +0.002	110	±0.43	12	37	160	15	+0.430 0	320	330	255	420	615								
132M		254	127	178	108		42														14	42.5	180	355	380	280	455	740
160M				210	121		48																					
160L		279	139.5	254	108	±4.0	55	+0.030 +0.011	140	±0.50	18	0 -0.043	53	225	19	435	470	335	560	815								
180M				241																	279	60	53	250	0 -1.0	490	510	370
180L		279	279	65	75																140	20	0 -0.052	67.5	280	550	580	410
200L		318	159	305	133	65	18	0 -0.043	58	315	635	645	530	845	1325													
225S		4,8	356	178	286	149	60	110	±0.43							16	49	225	24	+0.520 0	730	710	655	1010	1500			
225M		2			311		60			140	53	250	0 -1.0	490	510											370	615	910
		4,6,8			2		406			203	349	168	65	18	0 -0.052											67.5	280	550
250M		2	457	228.5	368	190	65	140	±0.50	170	18	0 -0.043	58	315	28	+0.520 0	635	645	530	845	1325							
	4,6,8	65					18															0 -0.043	58	280	550	580	410	680
280S	2	457					228.5															419	190	75	140	±0.50	170	18
	4,6,8		65	18	0 -0.043	58		280	550	580	410	680	1035															
280M	2		508	254	406	216		65	140	±0.50	170	18	0 -0.043	58	315	28	+0.520 0	635	645	530	845			1325				
	4,6,8,10	65					18	0 -0.043														58	280		550	580	410	680
315S	2	508					254	457														216	80		140	±0.50	170	18
	4,6,8,10		65	18	0 -0.043	58			280	550	580	410	680	1035														
315M	2		610	305	560	254			65	140	±0.50	170	18	0 -0.043	58	315	28	+0.520 0	635	645	530		845	1325				
	4,6,8,10	65					18	0 -0.043	58													280			550	580	410	680
315L	2	610					305	630	254													80			140	±0.50	170	18
	4,6,8,10		65	18	0 -0.043	58				280	550	580	410	680	1035													
355M	2		610	305	560	254				75	140	±0.50	170	18	0 -0.043	58	315	28	+0.520 0	635	645	530	845	1325				
	4,6,8,10	75					18	0 -0.043	58	280															550	580	410	680
355L	2	610					305	630	254	95															140	±0.50	170	18
	4,6,8,10		95	18	0 -0.043	58				280	550	580	410	680	1035													

VEL-CI-TRI Installation Dimensions - IM B35

IM B35



Installation Dimension

Frame No.	Poles	Mounting Dimensions & Tolerance																		Frame Dimensions							
		A	A/2	B	C	D	E	F	G ¹⁾	H	K ²⁾	M	N	P ³⁾	R ⁴⁾	S	T	Holes No.	AB	AC	AD	HD	L				
80	2,4,6,8	125	63	100	50	±1.5	19	40	6 ⁰ -0.030	16 ⁰ -0.10	80	10					±1.5	12	3.5	4	165	175	145	220	295		
90S		140	70	100	56		24 ^{+0.009} -0.004	50	±0.310		20	90	12	^{+0.360} 0	165	130	^{+0.014} -0.011	200				180	195	155	250	320	
90L		160	80	140	63	±2.0	28		8 ⁰ -0.036	24	100	0					^{+0.43} 0				205	215	180	270	385		
100L		190	95	140	70		60					112	-0.5	^{+0.430} 0	215	180		250				230	240	190	300	400	
112M							28		±0.370									±2.0	15		4					470	
132S		216	108	140	89	38	80	10	33	132				265	230	300							270	275	210	345	510
132M				178																						615	
160M		254	127	210	108	42 ^{+0.018} -0.002		12	37	160						^{+0.016} -0.013							320	330	255	420	670
160L				254		±3.0							15	300	250	350					0 -0.12					700	
180M		279	140	241	121		48	110	±0.430	14	43	180							±3.0					355	380	280	455
180L				279																							
200L			318	159	305	133	55		16	49	200			350	300	±0.016	400						395	420	305	505	770
225S	4,8			286		60	140	±0.500	18 ⁰ -0.043	53														815			
225M	2	356	178		149	55	110	±0.430	16	53	225	19		400	350	±0.018	450				435	470	335	560	820		
	4,6,8			311						49			^{+0.520} 0					19	5					845			
250M	2					60						0 -1.0									490	510	370	615	910		
	4,6,8	406	203	349	168			18			250						0										
280S	2					65				58																	
	4,6,8			368		75	140		20 ⁰ -0.052	68 ⁰ -0.20		24		500	450	±0.020	550							985			
280M	2	457	229		190	65 ^{+0.030} +0.011		18 ⁰ -0.043	58												550	580	410	680			
	4,6,8,10			419		75		20 ⁰ -0.052	68								^{+0.52} 0							1035			
315S	2					65		18 ⁰ -0.043	58											8				1185			
	4,6,8,10			406		80	170	±0.500	22 ⁰ -0.052	71							±4.0							1215			
315M	2	508	254	457	216	65	140		18 ⁰ -0.043	58				600	550	±0.022	660				635	645	530	845	1295		
	4,6,8,10					80	170		22 ⁰ -0.052	71		315												1325			
315L	2					65	140		18 ⁰ -0.043	58										6				1295			
	4,6,8,10			508		80	170		22	71		28						24		0 -0.15				1325			
355M	2					75	140		20	68														1500			
	4,6,8,10	610	305		254	95 ^{+0.035} +0.013	170		25 ⁰ -0.052	86		355		740	680	±0.025	800				730	710	655	1010	1530		
355L	2					75 ^{+0.030} +0.011	140		20	68														1500			
	4,6,8,10			630		95 ^{+0.035} -0.013	170		25	86														1530			



VEL-AL-TRI-ACBRK

THREE-PHASE ALUMINIUM HOUSING AC BRAKE MOTORS

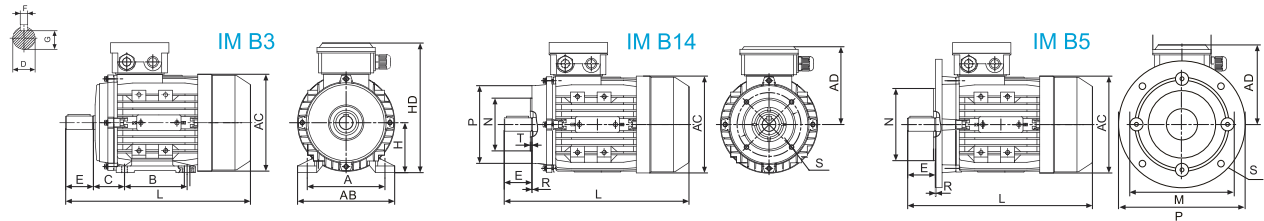
VEL-AL-TRI-ACBRK is intended for applications requiring controlled stopping, holding or positioning together with standard three-phase motor performance. The integrated AC brake system supports practical control and operational safety in industrial machinery.

- Conveyors and packaging machinery
- Hoisting and handling systems
- Machine tools and automation equipment



BRAKE TECHNICAL DATA

Frame size	71	80	90	100-112	132	160	180
Rated torque(Nm)	5	8	15	40	80	130	234
Rated votage(V,AC)	380	380	380	380	380	380	380
working clearance(mm)	0.25	0.2	0.2	0.25	0.3	0.35	0.35
wrench release clearance(mm)	0.6	0.6	0.6	0.6	1	1	1
Maximum clearance(mm)	0.85	0.8	0.8	0.85	1	1.2	1.2



Frame Size	Mounting Dimensions(mm)																					Overall Dimensions(mm)					
	IMB3									IMB14						IMB5											
A	A	B	C	D	E	F	G	H	K	M	N	P	R	S	T	M	N	P	R	S	T	AB	AC	AD	HD	L1	L2
71	112	90	45	14	30	5	11	71	7	85	70	105	0	M6	2.5	130	110	160	0	10	3.5	145	145	127	198	320	330
80M	125	100	50	19	40	6	15.5	80	10	100	80	120	0	M6	3	165	130	200	0	12	3.5	160	175	145	220	368	384
90S	140	100	56	24	50	8	20	90	10	115	95	140	0	M8	3	165	130	200	0	12	3.5	180	205	170	265	416	430
90L	140	125	56	24	50	8	20	90	10	115	95	140	0	M8	3	165	130	200	0	12	3.5	180	205	170	265	430	450
100L	160	140	63	28	60	8	24	100	12	130	110	160	0	M8	3.5	215	180	250	0	14.5	4	205	215	180	270	487	-
112M	190	140	70	28	60	8	24	112	12	130	110	160	0	M8	3.5	215	180	250	0	14.5	4	245	255	200	310	501	526
132S	216	140	89	38	80	10	33	132	12	165	130	200	0	M10	3.5	265	230	300	0	14.5	4	280	310	230	365	575	-
132M	216	178	89	38	80	10	33	132	12	165	130	200	0	M10	3.5	265	230	300	0	14.5	4	280	310	230	365	613	-
160M	254	210	108	42	110	12	37	160	14.5	215	180	250	\	M12	4	300	250	350	0	18.5	5	320	314	264	424	705	-
160L	254	254	108	42	110	12	37	160	14.5	215	180	250	\	M12	4	300	250	350	0	18.5	5	320	314	264	424	750	-
180M	279	241	121	48	110	14	42.5	180	14.5	\	\	\	\	\	\	300	250	350	0	18.5	5	355	390	285	465	800	-
180L	279	279	121	48	110	14	42.5	180	14.5	\	\	\	\	\	\	300	250	350	0	18.5	5	355	390	285	465	837	-



VEL-AL-TRI-ACBRK Technical Data

Model	Rated Power	Rated Current(A) (50HZ)			Speed rpm	Eff. %	P.F. cos φ	Braking Torque(Tn)	Ist/In	Tst/Tn	Tmax/Tn
	kW	220V	380V	660V				N. m			
MSB711-2-AC	0.37	1.71	0.99	0.57	2690	70	0.81	5	6.1	2.2	2.2
MSB712-2-AC	0.55	2.42	1.40	0.81	2715	73	0.82	5	6.1	2.2	2.3
MSB801-2-AC	0.75	3.17	1.83	1.06	2730	75	0.83	8	6.5	2.2	2.3
MSB802-2-AC	1.1	4.47	2.58	1.49	2746	77	0.84	8	7	2.2	2.3
MSB90S-2-AC	1.5	5.94	3.43	1.98	2715	79	0.84	15	7	2.2	2.3
MSB90L-2-AC	2.2	8.40	4.85	2.80	2772	81	0.85	15	7	2.2	2.3
MSB100L-2-AC	3	10.9	6.31	3.64	2870	83	0.87	40	7	2.2	2.3
MSB112M-2-AC	4	14.1	8.13	4.69	2890	85	0.88	40	7	2.2	2.3
MSB132S1-2-AC	5.5	19.1	11.0	6.37	2910	86	0.88	80	7	2	2.3
MSB132S2-2-AC	7.5	25.8	14.9	8.59	2900	87	0.88	80	7	2	2.3
MSB160M1-2-AC	11	36.9	21.3	12.3	2930	88	0.88	130	7	2	2.3
MSB160M-2-AC	15	49.7	28.7	16.6	2930	89	0.89	130	7	2	2.2
MSB160L-2-AC	18.5	59.9	34.6	20.0	2930	90	0.9	130	7	2	2.2
MSB180M-2-AC	22	70.8	40.9	23.6	2970	90.5	0.9	234	7	2	2.2

MSB711-4-AC	0.25	1.37	0.79	0.46	1390	65	0.74	5	4.4	2.1	2.4
MSB712-4-AC	0.37	1.94	1.12	0.65	1375	67	0.75	5	5.2	2.1	2.4
MSB801-4-AC	0.55	2.72	1.57	0.91	1370	71	0.75	8	6	2.4	2.3
MSB802-4-AC	0.75	3.55	2.05	1.18	1380	73	0.76	8	6	2.3	2.3
MSB90S-4-AC	1.1	5.01	2.89	1.67	1390	75	0.77	15	6.5	2.3	2.3
MSB90L-4-AC	1.5	6.41	3.70	2.14	1400	78	0.79	15	6.5	2.3	2.3
MSB100L1-4-AC	2.2	8.94	5.16	2.98	1430	80	0.81	40	7	2.2	2.3
MSB100L2-4-AC	3	11.7	6.78	3.91	1430	82	0.82	40	7	2.2	2.3
MSB112M-4-AC	4	15.3	8.82	5.09	1430	84	0.82	40	7	2.2	2.3
MSB132S-4-AC	5.5	20.5	11.8	6.84	1440	85	0.83	80	7	2.2	2.3
MSB132M-4-AC	7.5	27.0	15.6	9.0	1450	87	0.84	80	7	2.2	2.3
MSB160M-4-AC	11	38.6	22.3	12.9	1460	88	0.85	130	7	2.2	2.3
MSB160L-4-AC	15	52.0	30.0	17.3	1460	89	0.85	130	7	2.2	2.2
MSB180M-4-AC	18.5	63.0	36.4	21.0	1470	90.5	0.85	234	7	2	2.2
MSB180L-4-AC	22	74.7	43.1	24.9	1470	91	0.85	234	7	2	2.2

MSB90S-6-AC	0.75	3.97	2.29	1.32	930	69	0.72	15	5.5	1.9	2.2
MSB90L-6-AC	1.1	5.51	3.18	1.84	930	72	0.73	15	5.5	1.9	2.2
MSB100L-6-AC	1.5	6.93	4.00	2.31	945	76	0.75	40	6	1.9	2.2
MSB112M-6-AC	2.2	9.65	5.57	3.22	945	79	0.76	40	6	2	2.2
MSB132S-6-AC	3	12.8	7.40	4.3	960	81	0.76	80	6.5	2	2.2
MSB132M1-6-AC	4	16.9	9.75	5.6	960	82	0.76	80	6.5	2	2.2
MSB132M2-6-AC	5.5	22.4	12.9	7.5	960	84	0.77	80	6.5	2	2
MSB160M-6-AC	7.5	28.6	16.5	9.5	970	86	0.8	130	6.5	2	2
MSB160L-6-AC	11	41.7	24.1	13.9	970	87.5	0.79	130	6.5	1.7	2
MSB180L-6-AC	15	54.6	31.5	18.2	970	87.5	0.79	234	6.5	1.8	2

MSB132S-8-AC	2.2	10.5	6.04	3.49	720	78	0.71	80	5.5	2	2
MSB132M-8-AC	3	13.7	7.9	4.56	720	79	0.73	80	5.5	2	2
MSB160M1-8-AC	4	17.7	10.2	5.89	720	81	0.73	130	6	2	2
MSB160M2-8-AC	5.5	23.6	13.6	7.85	720	83	0.74	130	6	2	2
MSB160L-8-AC	7.5	30.7	17.7	10.2	720	85.5	0.75	130	5.5	2	2
MSB180L-8-AC	11	43.5	25.1	14.5	730	87.5	0.76	234	6	1.7	2



VEL-AL-TRI-DCBRK

THREE-PHASE ALUMINIUM HOUSING DC BRAKE MOTORS

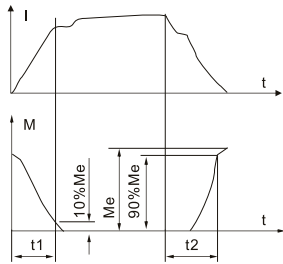
VEL-AL-TRI-DCBRK combines reliable motor operation with the functional advantages of DC braking. It is suitable for industrial systems where controlled stop performance, holding capability and dependable braking response are required.

- Conveyor systems
- Industrial automation
- Positioning and processing machinery

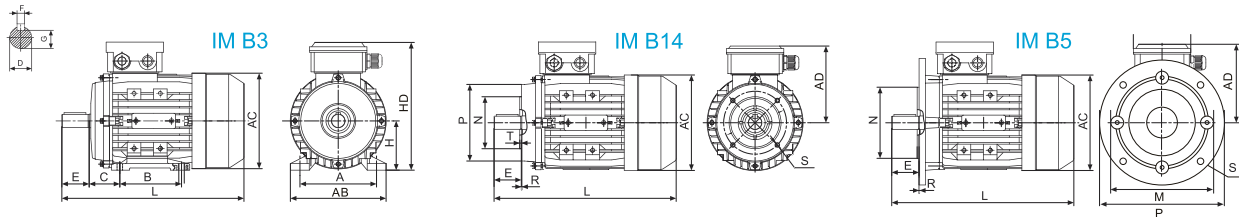


BRAKE TECHNICAL DATA

FRAME	mm	63	71	80	90	100	112	132	160	180
Rated torque	Nm	4	5	7.5	15	30	40	75	150	200
Excitation power	W	25	25	50	60	80	110	130	150	150
Connection time T1	ms	60	63	85	110	140	152	165	214	252
Cnnection time T2	ms	50	55	75	95	120	130	140	180	210
Aperture & max	mm	0.2	0.2	0.3	0.4	0.4	0.5	0.6	0.6	0.6
Max aperture & max	mm	0.8	0.8	1	1	1	1	1.2	1.2	1.2
Excitation voltage	V	99	99	99	99	99	170	170	170	170
Max. working speed	r/min	3000	3000	3000	3000	3000	3000	3000	3000	3000



BRAKE CURVES



Mounting Dimensions

Frame Size	Mounting Dimensions(mm)																					Overall Dimensions(mm)				
	IMB3								IMB14							IMB5										
A	A	B	C	D	E	F	G	H	K	M	N	P	R	S	T	M	N	P	R	S	T	AB	AC	AD	HD	L
63	100	80	40	11	23	4	8.5	63	7	75	60	90	-	M5	2.5	115	95	140	0	10	3.0	130	130	117	180	266
71	112	90	45	14	30	5	11	71	7	85	70	105	0	M6	2.5	130	110	160	0	10	3.5	145	145	127	198	308
80	125	100	50	19	40	6	15.5	80	10	100	80	120	0	M6	3.0	165	130	200	0	12	3.5	160	165	141	221	350
90S	140	100	56	24	50	8	20	90	10	115	95	140	0	M8	3.0	165	130	200	0	12	3.5	180	185	147	237	399
90L	140	125	56	24	50	8	20	90	10	115	95	140	-	M8	3.0	165	130	200	0	12	3.5	180	185	147	237	425
100L	160	140	63	28	60	8	24	100	12	130	110	160	0	M8	3.5	215	180	250	0	15	4.0	205	215	157	257	462
112M	190	140	70	28	60	8	24	112	12	130	110	160	0	M8	3.5	215	180	250	0	15	4.0	245	240	174	286	501
132S	216	140	89	38	80	10	33	132	12	165	130	200	0	M10	4.0	265	230	300	0	15	4.0	280	275	193	325	561
132M	216	178	89	38	80	10	33	132	12	165	130	200	0	M10	4.0	265	230	300	0	15	4.0	280	275	193	325	599
160M	254	210	108	42	110	12	37	160	15	215	180	250	-	M12	4.0	300	250	350	0	15	5.0	320	330	255	420	742
160L	254	254	108	42	110	12	37	160	15	215	180	250	0	M12	4.0	300	250	350		15	5.0	320	330	255	420	742
180M	279	241	121	48	110	14	42.5	180	15	265	230	300	0	M15	4.0	300	250	350	0	19	5.0	355	380	280	455	820
180L	279	279	121	48	110	14	42.5	180	15	265	230	300	0	M15	4.0	300	250	350		19	5.0	355	380	280	455	820



VEL-AL-TRI-DCBRK Technical Data

Model	Rated Power	Rated Current(A) (50HZ)		Speed	Eff.	P.F.	Braking torque	No load braking time	Exciting Power	Ist/In	Tst/Tn	Tmax/Tn
	kW	220V	380V	rpm	%	cos ϕ	N. m	s	w			
MSB631-2	0.18	0.91	0.53	2715	69	0.75	4	0.2	18	5.5	2.2	2.2
MSB632-2	0.25	1.19	0.69	2715	69	0.81	4	0.2	18	5.5	2.2	2.2
MSB711-2	0.37	1.71	0.99	2690	70	0.81	4	0.2	18	6.1	2.2	2.2
MSB712-2	0.55	2.41	1.40	2715	73	0.82	4	0.2	18	6.1	2.2	2.3
MSB801-2	0.75	3.16	1.83	2730	75	0.83	7.5	0.2	50	6.5	2.2	2.3
MSB802-2	1.1	4.46	2.58	2746	77	0.84	7.5	0.2	50	7	2.2	2.3
MSB90S-2	1.5	5.93	3.43	2715	79	0.84	15	0.2	60	7	2.2	2.3
MSB90L-2	2.2	8.39	4.85	2772	81	0.85	15	0.2	60	7	2.2	2.3
MSB100L-2	3	10.9	6.31	2870	83	0.87	30	0.2	80	7	2.2	2.3
MSB112M-2	4	14.0	8.13	2890	85	0.88	40	0.25	110	7	2.2	2.3
MSB132S 1-2	5.5	19.0	11.0	2910	86	0.88	75	0.25	130	7	2	2.3
MSB132S 2-2	7.5	25.7	14.8	2900	87	0.88	75	0.25	130	7	2	2.3
MSB160M 1-2	11	36.9	21.3	2930	89	0.88	150	0.35	150	7	2	2.3
MSB160M-2	15	49.8	28.7	2930	89	0.89	150	0.35	150	7	2	2.2
MSB160L-2	18.5	59.7	34.7	2930	90	0.9	150	0.35	150	7	2	2.2
MSB180M-2	22	70.7	40.8	2970	90.5	0.9	200	0.35	150	7	2	2.2

MSB631-4	0.12	0.89	0.51	1350	53	0.64	4	0.2	18	7	2.1	2.4
MSB632-4	0.18	1.25	0.73	1340	56	0.66	4	0.2	18	4.4	2.1	2.4
MSB711-4	0.25	1.36	0.79	1390	65	0.74	4	0.2	18	4.4	2.1	2.4
MSB712-4	0.37	1.93	1.12	1375	67	0.75	4	0.2	18	5.2	2.1	2.4
MSB801-4	0.55	2.71	1.57	1370	71	0.75	7.5	0.2	50	6	2.4	2.3
MSB802-4	0.75	3.55	2.05	1380	73	0.76	7.5	0.2	50	6	2.3	2.3
MSB90S-4	1.1	5.00	2.89	1390	75	0.77	15	0.2	60	6.5	2.3	2.3
MSB90L-4	1.5	6.39	3.70	1400	78	0.79	15	0.2	60	6.5	2.3	2.3
MSB100L1-4	2.2	8.91	5.16	1430	80	0.81	30	0.2	80	7	2.2	2.3
MSB100L2-4	3	11.7	6.78	1430	82	0.82	30	0.2	80	7	2.2	2.3
MSB112M-4	4	15.2	8.82	1430	84	0.82	40	0.25	110	7	2.2	2.3
MSB132S-4	5.5	20.4	11.8	1440	85	0.83	75	0.25	130	7	2.2	2.3
MSB132M-4	7.5	26.9	15.5	1450	87	0.84	75	0.25	130	7	2.2	2.3
MSB160M-4	11	38.6	22.3	1460	88	0.85	150	0.35	150	7	2.2	2.3
MSB160L-4	15	52.0	30.0	1460	89	0.85	150	0.35	150	7	2.2	2.2
MSB180M-4	18.5	63.0	36.4	1470	90.5	0.85	200	0.35	150	7	2	2.2
MSB180L-4	22	74.7	43.1	1470	91	0.85	200	0.35	150	7	2	2.2

MSB90S-6	0.75	3.96	2.29	930	69	0.72	15	0.2	60	5.5	1.9	2.2
MSB90L-6	1.1	5.49	3.18	930	72	0.73	15	0.2	60	5.5	1.9	2.2
MSB100L-6	1.5	6.91	4.00	945	76	0.75	30	0.2	80	6	1.9	2.2
MSB112M-6	2.2	9.62	5.57	945	79	0.76	40	0.25	110	6	2	2.2
MSB132S-6	3	12.7	7.40	960	81	0.76	75	0.25	130	6.5	2	2.2
MSB132M 1-6	4	16.8	9.75	960	82	0.76	75	0.25	130	6.5	2	2.2
MSB132M 2-6	5.5	22.3	12.9	960	84	0.77	75	0.35	130	6.5	2	2
MSB160M-6	7.5	28.6	16.6	970	86	0.8	150	0.35	150	6.5	2	2
MSB160L-6	11	41.8	24.2	970	87.5	0.79	150	0.35	150	6.5	1.7	2
MSB180L-6	15	54.6	31.6	970	87.5	0.79	200	0.35	150	6.5	1.8	2

MSB132S-8	2.2	10.4	6.04	720	78	0.71	75	0.25	130	5.5	2	2
MSB132M-8	3	13.6	7.90	720	79	0.73	75	0.25	130	5.5	2	2
MSB160M 1-8	4	18.2	10.4	720	81	0.73	150	0.55	150	6	2	2
MSB160M 2-8	5.5	23.4	13.5	720	83	0.74	150	0.35	150	6	2	2
MSB160L-8	7.5	30.9	17.9	720	85.5	0.75	150	0.55	150	5.5	2	2
MSB180L-8	11	45.2	26.2	730	87.5	0.76	200	0.35	150	6	1.7	2

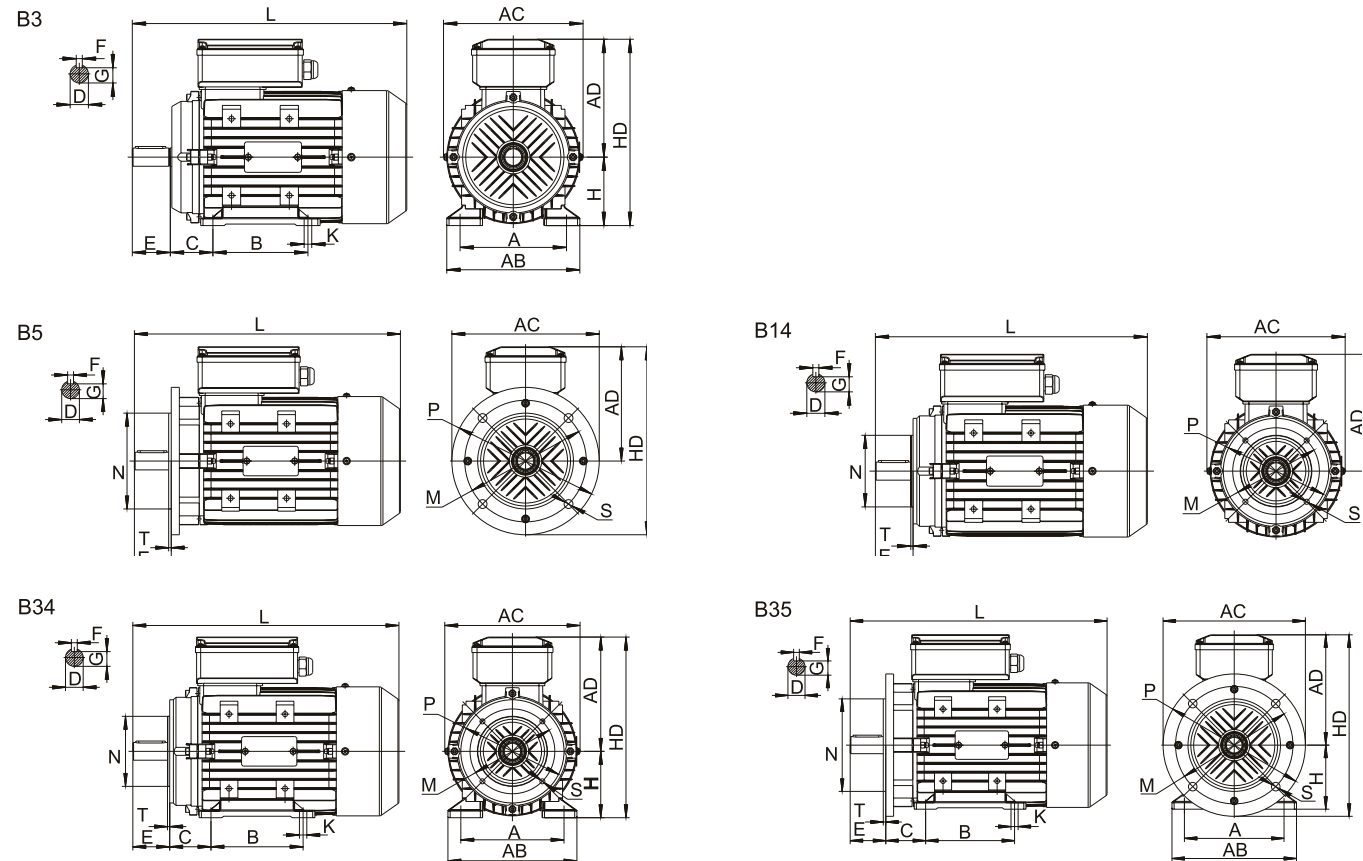
VEL-AL-1SINGLE

SINGLE-PHASE ALUMINIUM HOUSING CAPACITOR-START MOTORS

VEL-AL-1SINGLE is intended for applications where single-phase supply is required and compact, practical motor performance is preferred. The series provides dependable starting characteristics and easy integration for light and medium-duty applications.

- Fans and blowers
- Small pumps
- Workshop and agricultural equipment
- General light machinery

Mounting & Dimensional Drawings



VEL-AL-1SINGLE Technical Data & Installation Dimensions

Installation Dimension																									in mm				
Frame No	Installation Size									Installation Size For B14						Installation Size For B5						Overall Dimension							
	A	B	C	D	E	F	G	H	K	M	N	P	R	S	T	M	N	P	R	S	T	AB	AC	AD	HD	L			
71	112	90	45	14	30	5	11	71	7	85	70	105	0	M6	2.5	130	110	160	0	10	3.5	145	145	125	205	255			
80	125	100	50	19	40	6	15.5	80	10	100	80	120	0	M6	3.0	165	130	200	0	12	3.5	160	165	135	235	295			
90S	140	100	56	24	50	8	20	90	10	115	95	140	0	M8	3.0	165	130	200	0	12	3.5	180	185	145	265	335			
90L	140	125	56	24	50	8	20	90	10	115	95	140	0	M8	3.0	165	130	200	0	12	3.5	180	185	145	265	360			
100L	160	140	63	28	60	8	24	100	12	-	-	-	0	-	-	215	180	250	0	15	4.0	205	215	170	280	380			
112M	190	140	70	28	60	8	24	112	12	-	-	-	0	-	-	215	180	250	0	15	4.0	245	240	180	310	400			

TECHNICAL DATA

TYPE	Power KW	Power HP	Voltage (V)	Current (A)	Speed (r/min)	Eff (%)	Power Factor	Tstart/Tn (Time)	Tmax/Tn (Time)	Starting A. (A)
220V 50Hz Synchronous Speed 3000 r/min (2 Poles)										
MC711-2	0.18	0.25	220	2	2800	60	0.72	3.0	1.8	12
MC712-2	0.25	0.33	220	2.5	2800	64	0.74	3.0	1.8	15
MC801-2	0.37	0.5	220	3.5	2800	65	0.77	2.8	1.8	21
MC802-2	0.55	0.75	220	4.8	2800	68	0.79	2.8	1.8	29
MC90S-2	0.75	1	220	6	2800	70	0.80	2.5	1.8	37
MC90L-2	1.10	1.5	220	9	2800	72	0.80	2.5	1.8	60
MC100L1-2	1.50	2	220	11.5	2900	74	0.81	2.5	1.8	80
MC100L2-2	2.20	3	220	16.6	2900	75	0.81	2.2	1.8	120
MC112M-2	3.00	4	220	21.6	1400	76	0.82	2.2	1.8	150
220V 50Hz Synchronous Speed 1500 r/min (4 Poles)										
MC711-4	0.12	0.18	220	2	1400	50	0.58	3.0	1.8	90
MC712-4	0.18	0.25	220	2.6	1400	53	0.62	2.8	1.8	12
MC801-4	0.25	0.33	220	3.2	1400	58	0.63	2.8	1.8	15
MC802-4	0.37	0.5	220	4.3	1400	62	0.64	2.5	1.8	21
MC90S-4	0.55	0.75	220	5.6	1400	66	0.69	2.5	1.8	29
MC90L-4	0.75	1	220	6.9	1400	68	0.73	2.5	1.8	37
MC100L1-4	1.10	1.5	220	9.9	1400	71	0.74	2.5	1.8	60
MC100L2-4	1.50	2	220	12.5	1450	73	0.75	2.5	1.8	80
MC112M-4	2.20	3	220	17.7	1450	74	0.76	2.2	1.8	120



VEL-AL-2SINGLE

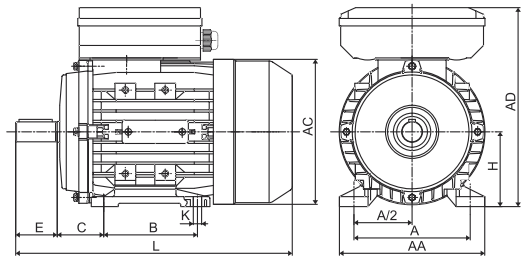
CAPACITOR START / CAPACITOR RUN SINGLE-PHASE MOTORS

VEL-AL-2SINGLE is developed for users seeking improved starting torque together with stable running performance in single-phase operation. Its dual-capacitor arrangement supports efficient daily use across a broad range of practical industrial and commercial applications.

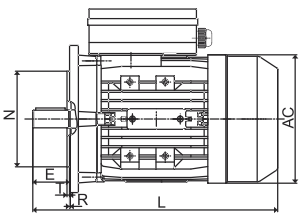
- Improved starting performance
- Balanced running characteristics
- Compact aluminium housing
- General-purpose industrial and commercial use

Mounting & Installation Dimensions

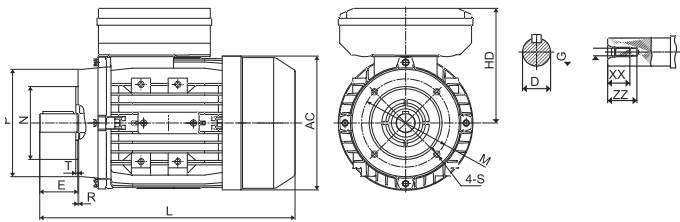
IM B3



IM B5



IM B14



Installation Dimension

Frame Size	Mounting Dimensions																IM B5						Overall Dimensions					Shaft End Screw Dimensions		
	A	B	C	D	E	F	G	H	K	M	N	P	R	S	T	M	N	P	R	S	T	AA	AC	AD	HD	L	SS	XX	ZZ	
63	100	80	40	11	23	4	8.5	63	7X10	75	60	90	0	M5	2.5	115	95	140	0	φ10	3.0	120	130	179	116	212	M4	10	15	
71	112	90	45	14	30	5	11	71	7X10	85	70	105	0	M6	2.5	130	110	160	0	φ10	3.5	132	145	194	123	255	M5	12	18	
80	125	100	50	19	40	6	15.5	80	10X13	100	80	120	0	M6	3.0	165	130	200	0	φ12	3.5	157	165	223	143	290	M6	16	22	
90S	140	100	56	24	50	8	20	90	10X13	115	95	140	0	M8	3.0	165	130	200	0	φ12	3.5	172	185	240	150	335	M8	20	25	
90L	140	125	56	24	50	8	20	90	10X13	115	95	140	0	M8	3.0	165	130	200	0	φ12	3.5	172	185	240	150	365	M8	20	25	
100L	160	140	63	28	60	8	24	100	12X15	130	110	160	0	M8	3.5	215	180	250	0	φ15	4.0	196	205	260	160	398/416	M10	22	28	
112M	190	140	70	28	60	8	24	112	12X15	130	110	160	0	M8	3.5	215	180	250	0	φ15	4.0	222	230	295	183	416	M10	22	28	



VEL-AL-2SINGLE Technical Data (230 V / 50 Hz)

TECHNICAL DATA (at 230V/50Hz)

Model	Power (KW)	Current (A)	Speed (r/min)	Eff. (%)	Power Factor (CosΦ)	Rate Torque (N.M)	Tst/Tn (Times)	Tmax/Tn (Times)	Starting Current (A)	Run Capacitor (μF/V)	Start Capacitor (μF/V)	Noise dB (A)	W.T (Kg)
ML631-2	0.18	1.38	2710	63	0.9	0.63	2.5	1.6	8	10μF/450V	50μF/250V	70	3.9
ML632-2	0.25	1.89	2710	64	0.9	0.88	2.5	1.6	10	10μF/450V	100μF/250V	73	4.4
ML711-2	0.37	2.66	2780	65	0.93	1.27	2.5	1.8	15	12μF/450V	100μF/250V	75	6.1
ML712-2	0.55	3.78	2790	68	0.93	1.88	2.5	1.8	20	16μF/450V	100μF/250V	76	7
ML801-2	0.75	4.87	2800	72	0.93	2.56	2.5	1.8	30	30μF/450V	150μF/250V	76	9
ML802-2	1.1	7.04	2810	73	0.93	3.74	2.5	1.8	40	35μF/450V	150μF/250V	79	10.3
ML90S-2	1.5	9.48	2810	74	0.93	5.10	2.5	1.8	55	40μF/450F	200μF/300V	84	16.3
ML90L-2	2.2	13.57	2810	75	0.94	7.48	2.5	1.8	75	50μF/450V	250μF/300V	84	16.7
ML100L-2	3.0	17.83	2830	77	0.95	10.13	2.5	1.7	110	50μF/450V	400μF/300V	88	25
ML112M1-2	3.7	21.48	2850	78	0.96	12.40	2.5	1.7	140	60μF/450V	400μF/300V	90	33
ML112M2-2	4.0	22.18	2850	80	0.98	13.41	2.5	1.7	150	60μF/450V	400μF/300V	90	34.2
ML631-4	0.12	1.05	1350	55	0.9	0.85	2.5	1.6	6	10μF/450V	30μF/250V	64	4.1
ML632-4	0.18	1.55	1350	56	0.9	1.27	2.5	1.6	8.5	12μF/450V	40μF/250V	64	4.5
ML711-4	0.25	2.01	1380	60	0.9	1.73	2.5	1.7	10	16μF/450V	75μF/250V	66	5.9
ML712-4	0.37	2.84	1380	63	0.9	2.56	2.5	1.7	15	16μF/450V	75μF/250V	68	6.9
ML801-4	0.55	4.03	1400	66	0.9	3.75	2.5	1.8	20	20μF/450V	100μF/250V	71	9.6
ML802-4	0.75	5.25	1410	69	0.9	5.08	2.5	1.8	30	25μF/450V	100μF/250V	71	10.9
ML90S-4	1.1	7.24	1410	71	0.93	7.45	2.5	1.8	40	60μF/450V	250μF/250V	74	13.8
ML90L-4	1.5	9.61	1400	73	0.93	10.24	2.5	1.8	55	70μF/450V	300μF/300V	79	16.7
ML100L1-4	2.2	13.90	1430	74	0.93	14.70	2.5	1.8	75	70μF/450V	300μF/300V	79	22.8
ML100L2-4	3	18.70	1440	75	0.93	19.91	2.5	1.8	110	80μF/450V	400μF/300V	83	28.7
ML112M1-4	3.7	21.99	1440	77	0.95	24.55	2.5	1.7	140	80μF/450V	400μF/300V	86	31
ML112M2-4	4.0	22.41	1440	80	0.97	26.54	2.5	1.7	150	80μF/450V	400μF/300V	86	32.8



Quality & Compliance

VEL Motor follows a quality-focused and application-conscious product approach aimed at supporting industrial customers with dependable motor solutions. Our product philosophy is based on practical technical compatibility, stable manufacturing quality and professional commercial support.

IEC-Compatible Product Structure

Motor platforms aligned with widely used IEC dimensional and application conventions.

Documentation-Conscious Supply

Technical documentation and order-specific records coordinated according to product configuration.

Industrial Reliability

Product selection focused on dependable operation and practical industrial compatibility.

Project Support

Commercial and technical communication for recurring OEM and project-based requirements.



Compliance documentation, declarations and product markings are supplied according to the confirmed motor configuration, market requirements and order scope.



OEM & Customization

VEL Motor supports machinery manufacturers, integrators and distributors with flexible product configurations for project-based and recurring supply needs. Product specifications can be adapted where technically feasible and commercially agreed.

Mounting Configurations

Foot, flange and combined mounting alternatives.

Voltage & Frequency

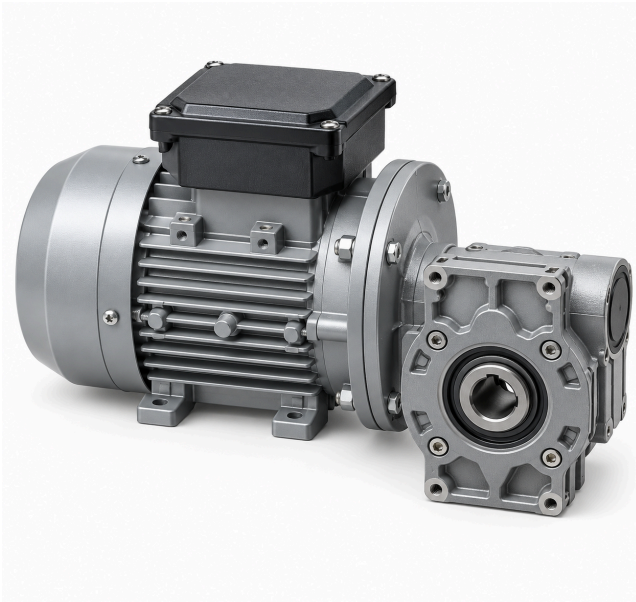
Application-dependent electrical configurations.

Brake Options

AC and DC brake motor solutions for controlled stopping and holding.

OEM Supply Support

Recurring supply planning, project coordination and application-oriented product selection.



Customization availability depends on frame size, duty, electrical data, mounting arrangement and confirmed project scope.

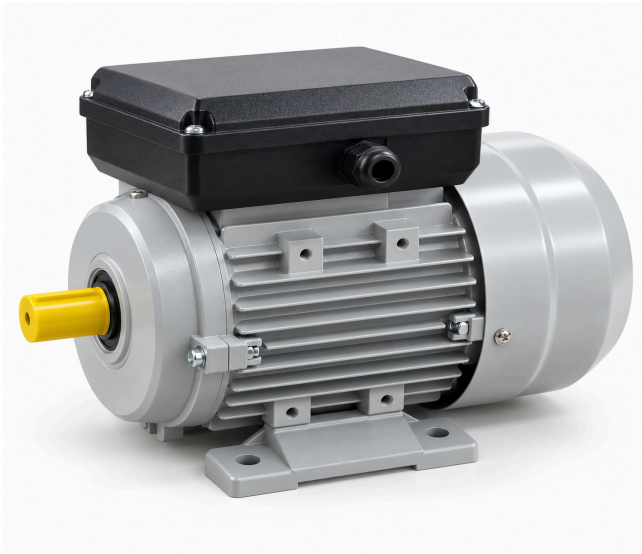


VEL-HD-1SINGLE

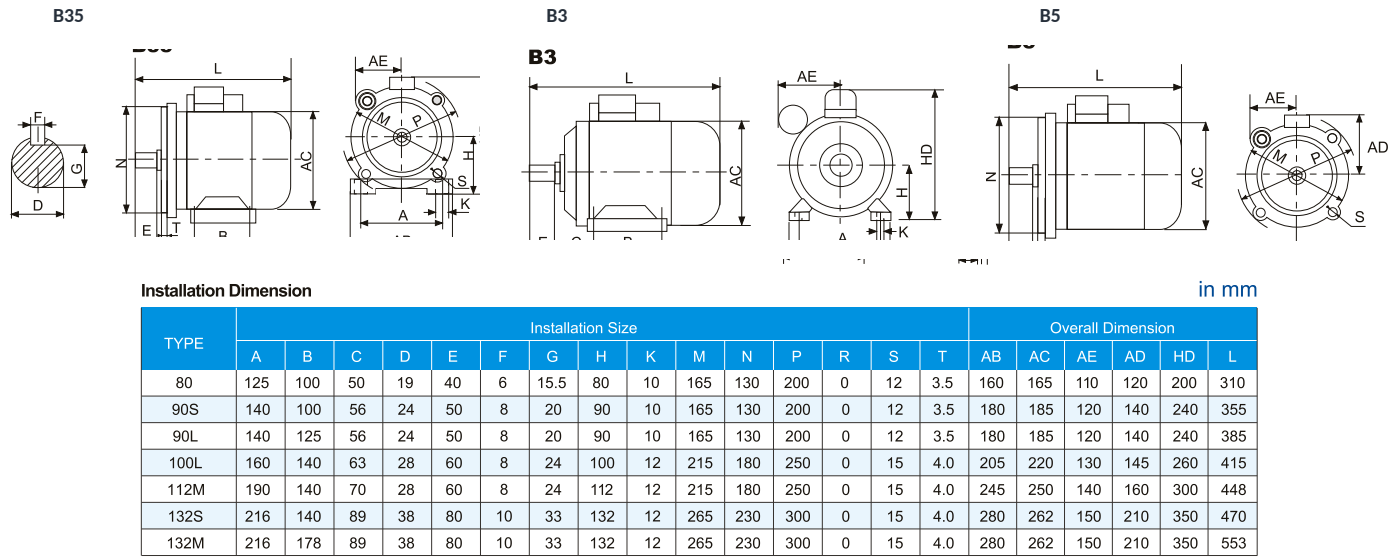
HEAVY-DUTY SINGLE-PHASE MOTORS

VEL-HD-1SINGLE is intended for stronger single-phase operating conditions where enhanced durability and dependable service are required. It is suitable for applications exposed to heavier load conditions and more demanding duty cycles.

- Agricultural machinery
- Workshop machines
- Heavy-duty pumps and compressors



Installation Dimension & Technical Data



VEL-HD-1SINGLE Technical Data

TYPE	Output		Voltage (V)	Current (A)	Speed (r/min)	Eff (%)	Power Factor	Start torque Rated torque	Start current Rated current	Max. torque Rated torque
	HP	KW								
220V 50Hz Synchronous Speed 3000 r/min (2 Poles)										
YC80A-2	0.5	0.37	220	3.5	2880	62	0.73	2.8	6.5	1.8
YC80B-2	0.75	0.55	220	5.3	2880	65	0.73	2.8	6.5	1.8
YC80C-2	1	0.75	220	6.7	2880	68	0.75	2.8	6.5	1.8
YC90S-2	1.5	1.1	220	9.1	2880	71	0.77	2.4	7	1.8
YC90L-2	2	1.5	220	11.4	2900	72	0.78	2.4	7	1.8
YC100L-2	3	2.2	220	16.5	2900	74	0.79	2.1	7	1.8
YC112M1-2	4	3	220	21.4	2900	76	0.84	2.2	7	1.8
YC112M2-2	5	3.7	220	24.8	2900	79	0.86	2.2	7	1.8
220V 50Hz Synchronous Speed 1500 r/min (4 Poles)										
YC80A-4	0.33	0.25	220	3.4	1450	56	0.60	2.8	6	1.8
YC80B-4	0.5	0.37	220	4.5	1450	60	0.62	2.8	6	1.8
YC80C-4	0.75	0.55	220	6.0	1450	64	0.65	2.8	6	1.8
YC90S-4	1	0.75	220	7.7	1450	67	0.66	2.4	6.5	1.8
YC90L-4	1.5	1.1	220	10.4	1450	70	0.68	2.4	6.5	1.8
YC100L-4	2	1.5	220	13.5	1450	72	0.70	2.4	6.5	1.8
YC112M-4	3	2.2	220	18.5	1450	72	0.72	2.4	6.5	1.8
YC132SA-4	4	3	220	22.4	1450	74	0.73	2.1	6.5	1.8
YC132SB-4	5	3.7	220	26.0	1450	75	0.74	2.1	6.5	1.8
YC132M-4	7.5	5.5	220	32.5	1450	81	0.95	2.4	6.5	1.8

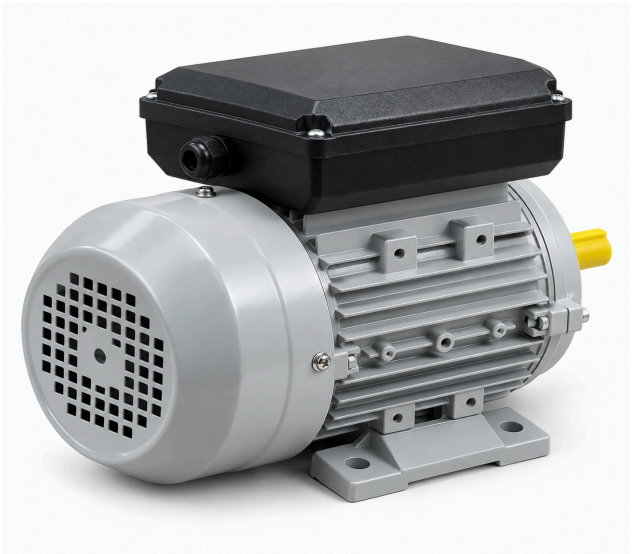


VEL-DV-1SINGLE

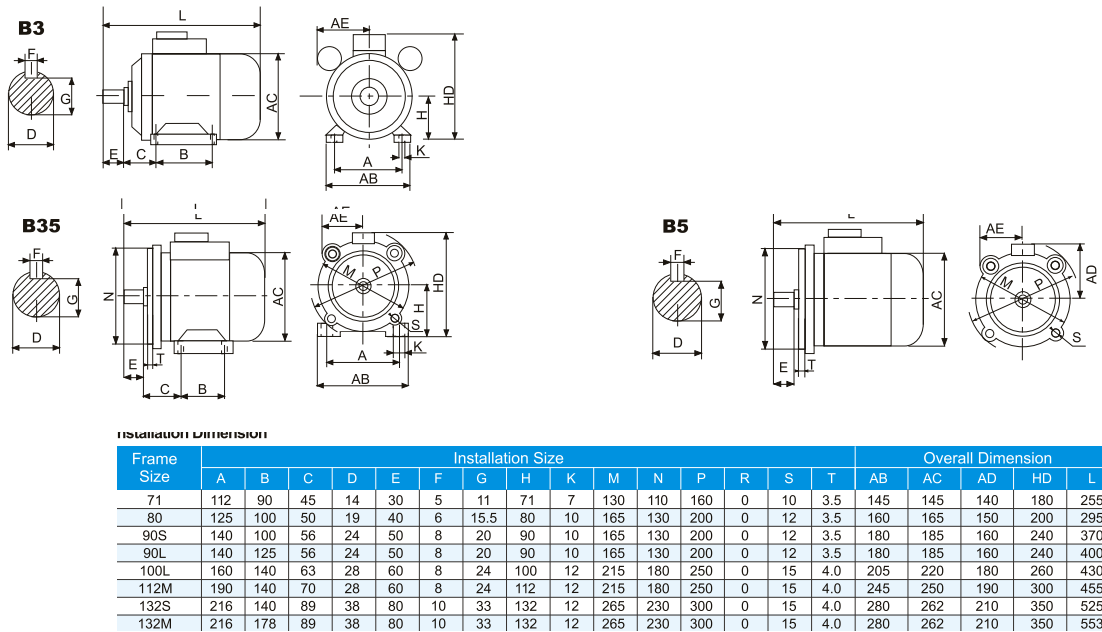
DUAL-CAPACITOR SINGLE-PHASE MOTORS

VEL-DV-1SINGLE is designed to deliver improved starting torque and stable operating behaviour through a dual-capacitor structure. The series is suitable for customers seeking reliable and balanced performance in single-phase applications.

- Strong starting torque
- Improved running stability
- Versatile single-phase use



Installation Dimension & Technical Data



VEL-DV-1SINGLE Technical Data

TYPE	Output		Vage (V)	Current (A)	Speed (r/min)	Eff (%)	Power Factor	Frequency (Hz)	Tstart/Tn	Tstart/Tn	Tmax/Tn
	HP	KW									
220V 50Hz Synchronous Speed 3000 r/min (2 Poles)											
YL711-2	0.5	0.37	220	2.73	2800	67	0.92	50	1.8	6.0	1.8
YL712-2	0.75	0.55	220	3.88	2800	70	0.92	50	1.8	6.0	1.8
YL801-2	1	0.75	220	5.15	2810	72	0.92	50	1.8	6.0	1.8
YL802-2	1.5	1.1	220	7.02	2810	75	0.95	50	1.8	6.0	1.8
YL90S-2	2	1.5	220	9.44	2820	76	0.95	50	1.8	6.0	1.8
YL90L-2	3	2.2	220	13.7	2820	77	0.95	50	1.8	6.0	1.8
YL100L-2	4	3.0	220	18.4	2850	78	0.95	50	1.8	6.0	1.8
YL112L-2	5	3.7	220	20	2850	80	0.95	50	1.8	6.0	1.8
220V 50Hz Synchronous Speed 1500 r/min (4 Poles)											
YL711-4	0.33	0.25	220	1.99	1400	62	0.92	50	1.8	6.0	1.8
YL712-4	0.5	0.37	220	2.81	1400	65	0.92	50	1.8	6.0	1.8
YL801-4	0.75	0.55	220	4.0	1410	68	0.92	50	1.8	6.0	1.6
YL802-4	1	0.75	220	5.22	1410	71	0.92	50	1.8	6.0	1.6
YL90S-4	1.5	1.1	220	7.21	1430	73	0.95	50	1.8	6.0	1.6
YL90L-4	2	1.5	220	9.57	1430	75	0.95	50	1.8	6.0	1.6
YL100L1-4	3	2.2	220	13.9	1440	76	0.95	50	1.8	6.0	1.8
YL112M1-4	4	3	220	18.6	1450	77	0.95	50	1.8	6.0	1.8
YL112M2-4	5	3.7	220	23	1450	78	0.95	50	1.8	6.0	1.8
YL132S2-4	5	3.7	220	23	1460	78	0.95	50	1.8	6.0	1.8
YL132M-4	7.5	5.5	220	32.49	1460	81	0.95	50	1.8	6.0	1.8



Contact & Corporate Presence

VEL Motor combines an Izmir sales office with factory and production operations in Greece, EU, supporting commercial coordination and industrial supply for European and international customers.

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Tax Number: 803128722

VEL MOTOR

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Colour Options

RAL 5000 Violet blue	RAL 5001 Green blue	RAL 5002 Ultramarine	RAL 5003 Sapphire blue	RAL 5004 Black blue
RAL 5005 Signal blue	RAL 5007 Brilliant blue	RAL 5008 Grey blue	RAL 5009 Azure blue	RAL 5010 Gentian blue
RAL 5012 Light blue	RAL 5013 Cobalt blue	RAL 5014 Pigeon blue	RAL 5015 Sky blue	RAL 5017 Traffic blue
RAL 5018 Turquoise blue	RAL 5020 Ocean blue	RAL 5021 Water blue	RAL 5022 Night blue	RAL 5023 Distant blue
RAL 7000 Squirrel grey	RAL 7001 Silver grey	RAL 7002 Olive grey	RAL 7003 Moss grey	RAL 7004 Signal grey
RAL 7005 Mouse grey	RAL 7006 Beige grey	RAL 7008 Khaki grey	RAL 7009 Green grey	RAL 7010 Tarpaulin grey
RAL 7011 Iron grey	RAL 7012 Basalt grey	RAL 7013 Brown grey	RAL 7015 Slate grey	RAL 7016 Anthracite grey
RAL 7021 Black grey	RAL 7022 Umber grey	RAL 7023 Concrete grey	RAL 7024 Graphite grey	RAL 7026 Granite grey
RAL 7030 Stone grey	RAL 7031 Blue grey	RAL 7032 Pebble grey	RAL 7033 Cement grey	RAL 7034 Yellow grey
RAL 7035 Light grey	RAL 7036 Platinum grey	RAL 7037 Dusty grey	RAL 7038 Agate grey	RAL 7039 Quartz grey
RAL 7040 Window grey	RAL 7042 Traffic grey A	RAL 7043 Traffic grey B	RAL 7044 Silk grey	RAL 7046 Tele grey 2

Colour availability may vary by motor series, frame size and confirmed order scope.