Three-Phase Motors

موتورهای سه فاز فریم آلومینیوم

Industrial Motors

IEC Three-Phase Squirrel-Cage Motors

Standard Motors up to Frame Size 160

Technical Data

Aluminium Housing. Basic Version

IE1 Rated Output kW	Size	Type	Rated Speed rpm	Nominal Efficiency	Power Factor	Rated Current at 400v A	Rated Torque Nm	Starting Torque (For Direct-on-Line starting as multiple of the rated) Torque	Starting Current (For Direct-on-Line starting as multiple of the rated) Current	Weight Kg
3000 rpm, 2-pole, 50 Hz, 400V										
0.18	63	34185	2805	52.8	0.79	1.08	0.60	1.7	3.4	4
0.25		34255	2835	58.2	0.75	1.44	0.84	1.9	3.6	5
0.37	71	35375	2755	63.9	0.79	1.06	1.30	2.2	3.4	6
0.55		35555	2750	69.0	0.79	1.46	1.90	2.2	3.7	7
0.75	80	37754	2835	72.1	0.86	1.75	2.50	2.1	5.2	9
1.1		37115	2840	75.0	0.86	2.45	3.70	2.5	5.7	12
1.5	90	39154	2835	77.2	0.85	3.30	5.10	2.6	5.5	13
2.2		39224	2855	79.7	0.85	4.70	7.40	2.8	6.5	15
3	100	42033	2835	81.5	0.87	6.10	10.0	3.2	6.4	20
4	112	45044	2935	83.1	0.85	8.20	13.0	3.3	8.3	25
5.5	132	48553	2910	84.7	0.88	10.7	18.0	1.8	5.7	35
7.5		48753	2925	86.0	0.88	14.3	24.0	2.2	6.8	40
11	160	51113	2925	87.6	0.86	21.0	36.0	2.0	5.7	60
15		51153	2935	88.7	0.85	28.5	49.0	2.4	6.8	68
18.5		51183	2935	89.3	0.87	34.5	60.0	2.7	7.6	78
1500 rpm, 4-pole, 50 Hz, 400V										
0.12	63	41124	1360	50.0	0.71	0.85	0.84	1.6	2.5	5
0.18		41184	1360	57.0	0.71	1.12	1.30	1.9	2.8	5
0.25	71	36254	1365	61.5	0.73	0.80	1.80	1.8	3.0	6
0.37		36374	1350	66.0	0.75	1.08	2.70	2.0	3.2	7
0.55	80	38557	1385	70.0	0.79	1.44	3.80	2.1	3.7	10
0.75		38754	1385	72.1	0.76	1.85	5.20	2.1	3.6	11
1.1	90	40115	1410	77.5	0.76	2.60	7.50	2.1	5.0	12
1.5		40154	1410	77.2	0.80	3.35	10.0	2.4	4.7	15
2.2	100	43225	1420	80.0	0.70	5.60	15.0	2.2	5.0	18
3		43035	1420	82.7	0.76	6.90	20.0	2.4	5.6	22
4	112	46045	1425	84.0	0.81	8.40	27.0	2.0	5.6	27
5.5	132	49553	1450	84.7	0.82	11.2	36.0	2.3	5.7	38
7.5		49753	1450	86.0	0.82	15.2	49.0	2.6	6.6	44
11	160	52113	1460	87.6	0.81	22.5	72.0	2.7	6.9	62
15		52153	1460	88.7	0.82	30.0	98.0	3.0	7.5	73

Technical Data

Aluminium Housing. Basic Version

IE1 Rated Output kW	Size	Type	Rated Speed rpm	Nominal Efficiency	Power Factor	Rated Current at 400v A	Rated Torque Nm	Starting Torque For Direct-on-Line starting as multiple of the rated Torque	Starting Current For Direct-on-Line starting as multiple of the rated Current	Weight Kg
1000 rpm, 6-pole, 50 Hz, 400V										
0.09	63	41093	895	42.7	0.63	0.84	1.3	1.8	2.0	4
0.18 0.25	71	36183 36256	800 860	45.5 52.1	0.67 0.71	0.84 0.98	2.2 2.8	1.9 2.0	2.0 2.2	5 6
0.37 0.55	80	38375 38556	915 900	59.7 65.8	0.70 0.72	1.23 1.68	3.9 5.8	1.6 1.7	2.7 2.7	9 12
0.75 1.1	90	89753 89113	940 925	70.0 72.9	0.67 0.69	2.30 3.15	7.6 11	2.0 2.2	3.8 3.8	13 15
1.5	100	44154	940	75.2	0.74	3.90	15	2.0	4.0	19
2.2	112	47224	940	77.7	0.72	5.70	22	2.6	4.6	25
3 4 5.5	132	50033 50043 50553	955 955 955	79.7 81.4 83.1	0.74 0.76 0.75	7.30 9.30 12.7	30 40 55	2.0 2.3 2.7	4.6 5.2 5.7	34 39 48
7.5 11	160	53753 53113	970 965	84.7 86.4	0.73 0.77	17.5 24.0	74 109	2.1 1.9	5.5 5.9	72 92

IEC Three-Phase Squirrel-Cage Motors

Standard Motors up to Frame Size 160

Technical Data

Aluminium Housing. Basic Version

IE2 Rated Output kW	Size	Type	Rated Speed rpm	Nominal Efficiency	Power Factor	Rated Current at 400v A	Rated Torque Nm	Starting Torque For Direct-on-Line starting as multiple of the rated Torque	Starting Current For Direct-on-Line starting as multiple of the rated Current	Weight Kg
3000 rpm, 2-pole, 50 Hz, 400V										
0.18	63	34184	2850	60.4	0.78	0.55	0.60	2.2	4.5	4
0.25		34254	2835	64.8	0.81	0.69	0.80	1.9	4.1	5
0.37	71	35374	2770	69.5	0.81	0.95	1.28	2.5	4.1	6
0.55		35554	2780	74.1	0.80	1.34	1.89	2.6	4.6	7
0.75	80	37753	2830	77.4	0.74	1.90	2.60	3.4	5.8	9
1.1		37114	2835	79.6	0.83	2.40	3.70	2.7	6.0	11
1.5	90	39153	2860	81.3	0.82	3.30	5.10	2.3	4.8	13
2.2		39223	2830	83.5	0.85	4.60	7.50	2.3	5.2	15
3	100	42034	2905	84.6	0.84	6.10	9.90	2.3	7.0	20
4	112	45043	2910	85.8	0.83	8.20	13.0	2.0	6.1	27
5.5	132	48555	2930	87.0	0.87	10.5	18.0	2.7	7.6	40
7.5		48755	2930	88.1	0.85	14.2	24.0	2.5	7.3	43
11	160	51115	2945	89.4	0.85	21.0	36.0	2.6	7.6	67
15		51155	2945	90.3	0.88	27.5	49.0	2.4	7.8	75
18.5		51185	2945	90.9	0.90	34.0	60.0	3.0	8.3	85
1500 rpm, 4-pole, 50 Hz, 400V										
0.12	63	41123	1350	59.1	0.60	0.52	0.86	3.0	3.0	5
0.18		41183	1335	64.7	0.65	0.70	1.30	2.7	3.1	5
0.25	71	36253	1380	68.5	0.70	0.78	1.70	2.4	3.6	6
0.37		36373	1390	72.7	0.65	1.25	2.60	2.4	3.5	7
0.55	80	38553	1410	77.1	0.67	1.60	3.80	2.2	3.7	10
0.75		38753	1420	79.6	0.73	1.80	5.00	2.2	5.2	11
1.1	90	40114	1425	81.4	0.78	2.50	7.40	2.3	5.0	13
1.5		40153	1410	82.8	0.74	3.70	10.0	2.6	5.1	16
2.2	100	43224	1455	84.3	0.81	4.65	14.0	2.1	6.9	21
3		43034	1455	85.5	0.82	6.20	20.0	2.0	6.9	25
4	112	46044	1460	86.6	0.81	8.20	26.0	2.5	7.1	29
5.5	132	49555	1450	88.0	0.76	11.5	36.0	2.0	5.3	42
7.5		49755	1450	88.7	0.80	15.0	49.0	2.1	5.6	49
11	160	52115	1460	89.5	0.88	20.8	71.0	2.2	5.7	71
15		52155	1460	90.6	0.90	27.0	97.0	2.2	5.9	83

Technical Data

Aluminium Housing. Basic Version

IE2 Rated Output kW	Size	Type	Rated Speed rpm	Nominal Efficiency	Power Factor	Rated Current at 400v A	Rated Torque Nm	Starting Torque (For Direct-on-Line starting as multiple of the rated) Torque	Starting Current (For Direct-on-Line starting as multiple of the rated) Current	Weight Kg
1000 rpm, 6-pole, 50 Hz, 400V										
0.37	80	38374	925	67.6	0.69	1.14	3.8	2.1	4.0	10
0.55		38554	925	73.1	0.63	1.80	5.6	2.1	3.5	12
0.75	90	89754	935	75.9	0.70	2.05	7.7	2.0	4.1	13
1.1		89114	935	78.1	0.70	2.90	11	2.2	4.4	16
1.5	100	44153	945	79.8	0.67	4.2	15	2.0	4.1	25
2.2	112	47225	945	81.8	0.63	6.60	22	2.5	4.4	29
3	132	50034	970	83.3	0.72	7.20	30	1.6	5.0	38
4		50045	955	84.6	0.66	10.5	40	1.6	4.4	50
5.5		50555	955	86.0	0.68	13.5	55	1.9	4.4	57
7.5	160	53755	960	87.2	0.77	16.0	75	1.9	5.3	77
11		53115	950	88.7	0.82	22.5	110	1.6	5.1	93

IEC Three-Phase Squirrel-Cage Motors

Standard Motors up to Frame Size 160

Technical Data

Aluminium Housing. Basic Version

IE3 Rated Output kW	Size	Type	Rated Speed rpm	Nominal Efficiency	Power Factor	Rated Current at 400v A	Rated Torque Nm	Starting Torque (For Direct-on-Line starting as multiple of the rated) Torque	Starting Current (For Direct-on-Line starting as multiple of the rated) Current	Weight Kg
3000 rpm, 2-pole, 50 Hz, 400V										
0.18	63	34183	2780	65.9	0.65	0.60	0.63	3.5	4.5	4
0.25		34253	2770	69.7	0.74	0.72	0.86	3.3	4.7	5
0.37	71	35373	2800	73.8	0.80	1.00	1.30	3.0	4.8	6
0.55		35553	2800	77.8	0.70	1.50	1.90	3.2	5.6	7
0.75	80	37755	2850	80.7	0.86	1.56	2.50	2.6	6.2	11
1.1		37113	2860	82.7	0.69	2.90	3.60	3.8	6.5	12
1.5	90	39155	2910	84.2	0.86	3.00	4.90	2.7	8.1	15
2.2		39225	2910	85.9	0.88	4.20	7.20	2.6	8.3	20
3	100	42035	2900	87.1	0.81	6.50	9.80	3.2	8.1	26
4	112	45045	2945	88.1	0.89	7.40	13.0	2.5	9.1	35
5.5	132	48554	2945	89.2	0.88	9.90	18.0	2.5	8.9	43
7.5		48754	2950	90.1	0.92	13.1	24.5	1.9	8.3	57
11	160	51114	2955	91.2	0.89	19.6	35.5	2.4	7.9	75
15		51154	2955	91.9	0.86	27.0	48.0	3.5	10	85
18.5		51184	2955	92.4	0.90	32.0	60.0	2.8	9.0	95
1500 rpm, 4-pole, 50 Hz, 400V										
0.12	63	41125	1425	64.8	0.71	0.38	0.81	2.3	4.4	6
0.18		41185	1380	69.9	0.72	0.52	1.25	2.2	4.6	7
025	71	36255	1390	74.2	0.65	0.74	1.70	2.6	3.9	7
0.37		36375	1380	77.3	0.70	1.00	2.60	2.8	4.3	8
0.55	80	38555	1430	81.3	0.68	1.50	3.60	2.8	5.3	11
0.75		38755	1450	82.5	0.75	1.75	4.9	2.7	7.1	15
1.1	90	40113	1440	84.1	0.78	2.40	7.30	2.9	6.9	16
1.5		40155	1445	85.3	0.80	3.15	9.90	2.9	7.3	20
2.2	100	43223	1445	86.7	0.67	5.50	14.3	2.5	6.0	30
3		43033	1450	87.7	0.80	6.20	20.0	3.1	8.0	30
4	112	46043	1460	88.6	0.82	7.90	26.0	2.4	7.1	35
5.5	132	49554	1465	89.6	0.78	11.5	36.0	2.3	6.6	65
7.5		49754	1465	90.4	0.80	15.0	49.0	3.0	8.1	65
11	160	52114	1470	91.4	0.82	20.5	71.0	2.5	8.0	83
15		52154	1465	92.1	0.83	28.5	97.0	2.8	7.9	100

Technical Data

Aluminium Housing. Basic Version

IE3 Rated Output kW	Size	Type	Rated Speed rpm	Nominal Efficiency	Power Factor	Rated Current at 400v A	Rated Torque Nm	Starting Torque (For Direct-on-Line starting as multiple of the rated) Torque	Starting Current (For Direct-on-Line starting as multiple of the rated) Current	Weight Kg
1000 rpm, 6-pole, 50 Hz, 400V										
0.37	80	38373	935	73.5	0.64	1.15	3.8	1.9	3.5	12
0.55		38558	935	77.2	0.67	1.53	5.6	2.5	4.5	15
0.75	90	89755	945	78.9	0.70	1.96	7.6	2.2	4.6	16
1.1		89115	950	81.0	0.66	2.95	11	2.8	5.0	20
1.5	100	44155	970	82.5	0.73	3.60	14.8	1.9	5.2	25
2.2	112	47224	970	84.3	0.75	5.00	22	2.2	5.6	34
3	132	50035	960	85.6	0.66	7.70	29	1.7	4.3	42
4		50044	975	86.8	0.73	9.10	39	2.2	6.2	46
5.5		50554	975	88.0	0.72	12.5	54	2.7	6.8	58
7.5	160	53754	985	89.1	0.81	15.0	73	2.3	7.9	95
11		53114	980	90.3	0.80	22.0	107	2.9	6.8	105

Three-Phase Motors (Cast Iron Frame)

موتورهای سه فاز فریم چدن

Industrial Motors

IEC Three-Phase Squirrel-Cage Motors

Standard Motors Frame Size 180 to 315

Technical Data

Cast Iron Housing. Basic Version

IE1 Rated Output kW	Size	Type	Rated Speed rpm	Nominal Efficiency	Power Factor	Rated Current at 400v A	Rated Torque Nm	Starting Torque (For Direct-on-Line starting as multiple of the rated) Torque	Starting Current (For Direct-on-Line starting as multiple of the rated) Current	Weight Kg
3000 rpm, 2-pole, 50 Hz, 400V										
22	180	56223	2945	89.9	0.87	40.5	71.0	2.5	7.7	150
30	200	59305	2950	90.7	0.83	58.0	97.0	2.5	7.3	195
37		59373	2955	91.2	0.88	67.0	120	2.7	8.2	230
45	225	62453	2960	91.7	0.88	80.0	145	2.3	6.7	280
55	250	65553	2970	92.1	0.88	98.0	177	2.0	6.7	360
75	280	68755	2965	92.7	0.88	135	241	2.2	6.8	500
90		68903	2975	93.0	0.88	159	289	2.5	7.1	530
110	315S	71113	2982	93.3	0.86	198	352	2.3	7.5	680
132	315M	71133	2982	93.5	0.89	230	423	2.3	7.6	740
160	315L	71163	2982	93.8	0.91	270	512	2.3	7.4	880
200		71203	2982	94.0	0.92	335	640	2.2	7.1	1000
1500 rpm, 4-pole, 50 Hz, 400V										
18.5	180	57185	1470	89.3	0.80	36.0	120	2.2	7.3	160
22		57225	1465	89.9	0.84	41.0	143	2.7	8.0	170
30	200	60303	1472	90.7	0.83	58.0	195	2.3	6.9	220
37	225	63373	1475	91.2	0.85	69.0	240	2.3	7.0	260
45		63455	1475	91.7	0.86	81.0	291	2.6	7.2	300
55	250	66555	1470	92.1	0.82	101	356	2.4	6.1	390
75	280	69753	1485	92.7	0.85	137	482	2.3	7.0	500
90		69903	1482	93.0	0.87	161	580	2.2	6.5	560
110	315S	72113	1488	93.3	0.84	205	706	2.3	6.5	690
132	315M	72133	1488	93.5	0.85	240	847	2.5	6.8	760
160	315L	72163	1486	93.8	0.86	285	1028	2.7	7.2	940
200		72203	1486	94.0	0.87	355	1285	2.5	6.9	1140

Technical Data

Cast Iron Housing. Basic Version

IE1 Rated Output kW	Size	Type	Rated Speed rpm	Nominal Efficiency	Power Factor	Rated Current at 400v A	Rated Torque Nm	Starting Torque For Direct-on-Line starting as multiple of the rated Torque	Starting Current For Direct-on-Line starting as multiple of the rated Current	Weight Kg
1000 rpm, 6-pole, 50 Hz, 400V										
15	180	58153	975	87.7	0.77	32.0	147	2.3	6.1	155
18.5	200	61183	978	88.6	0.79	38.0	181	2.5	6.3	200
22		61223	980	89.2	0.79	45.0	214	2.8	6.8	220
30	225	64303	978	90.2	0.82	59.0	293	2.7	6.0	270
37	250	67373	980	90.8	0.82	72.0	361	2.7	6.0	330
45	280	70453	986	91.4	0.84	85.0	436	2.6	7.0	440
55		70553	986	91.9	0.85	102	533	2.6	6.7	500
75	315S	73753	988	92.6	0.83	141	725	2.5	7.1	660
90	315M	73903	988	92.9	0.83	168	870	2.6	7.3	740
110	315L	73113	988	93.3	0.86	198	1063	2.6	6.8	880
132		73133	986	93.5	0.86	235	1276	3.0	7.5	1030
160		73163	986	93.8	0.86	285	1546	3.1	7.7	1160

IEC Three-Phase Squirrel-Cage Motors

Standard Motors Frame Size 180 to 315

Technical Data

Cast Iron Housing. Basic Version

IE2 Rated Output kW	Size	Type	Rated Speed rpm	Nominal Efficiency	Power Factor	Rated Current at 400v A	Rated Torque Nm	Starting Torque (For Direct-on-Line starting as multiple of the rated) Torque	Starting Current (For Direct-on-Line starting as multiple of the rated) Current	Weight Kg
3000 rpm, 2-pole, 50 Hz, 400V										
22	180	56225	2940	91.3	0.85	41.0	71.0	2.7	7.4	145
30	200	59304	2960	92.0	0.87	54.0	97.0	2.5	6.9	200
37		59374	2960	92.5	0.88	66.0	119	2.7	7.4	225
45	225	62455	2955	92.9	0.85	83.0	145	2.7	7.8	295
55	250	65554	2970	93.2	0.88	97.0	177	2.3	6.8	360
75	280	68754	2978	93.8	0.86	134	240	2.5	7.2	490
90		68905	2970	94.2	0.87	155	289	2.5	7.1	530
110	315S	71114	2982	94.3	0.90	187	352	2.4	7.3	720
132	315M	71134	2982	94.6	0.91	220	423	2.4	7.2	880
160	315L	71164	2982	94.8	0.91	265	512	2.3	7.0	930
200		71204	2982	95.0	0.92	330	640	2.5	7.3	1130
1500 rpm, 4-pole, 50 Hz, 400V										
18.5	180	57184	1465	91.2	0.84	35.0	121	2.5	7.2	160
22		57224	1465	91.6	0.84	41.5	143	2.6	7.3	170
30	200	60305	1460	92.3	0.87	56.0	195	2.5	6.7	230
37	225	63375	1470	92.7	0.87	68.0	240	2.3	6.6	280
45		63454	1475	93.1	0.82	85.0	291	2.5	6.9	305
55	250	66554	1480	93.5	0.85	100	355	2.7	6.8	385
75	280	69755	1480	94.0	0.85	137	482	2.5	6.8	550
90		69905	1483	94.2	0.85	163	578	2.6	7.3	570
110	315S	72114	1490	94.5	0.86	195	705	2.7	7.4	740
132	315M	72135	1490	94.7	0.87	230	846	2.7	7.1	870
160	315L	72164	1490	94.9	0.87	280	1025	2.8	7.2	940
200		72204	1490	95.1	0.87	350	1282	2.1	7.5	1140

Technical Data

Cast Iron Housing. Basic Version

IE2 Rated Output kW	Size	Type	Rated Speed rpm	Nominal Efficiency	Power Factor	Rated Current at 400v A	Rated Torque Nm	Starting Torque (For Direct-on-Line starting as multiple of the rated) Torque	Starting Current (For Direct-on-Line starting as multiple of the rated) Current	Weight Kg
1000 rpm, 6-pole, 50 Hz, 400V										
15	180	58154	975	89.7	0.78	31.0	147	2.5	6.0	155
18.5	200	61184	978	90.4	0.82	36.0	181	2.4	5.8	200
22		61224	978	90.9	0.82	42.5	215	2.5	6.2	220
30	225	64304	980	91.7	0.83	57.0	292	2.5	5.6	300
37	250	67374	982	92.2	0.83	70.0	360	2.8	6.0	370
45	280	70454	985	92.7	0.84	83.0	436	2.7	6.3	460
55		70554	986	93.1	0.86	99	533	2.5	6.4	510
75	315S	73754	988	93.7	0.84	138	725	2.5	6.7	660
90	315M	73904	988	94.0	0.84	165	870	2.6	6.9	730
110	315L	73114	988	94.3	0.86	196	1063	2.7	7.0	940
132		73134	988	94.6	0.86	235	1276	3.0	7.5	990
160		73164	988	94.8	0.86	285	1546	3.1	7.7	1160

IEC Three-Phase Squirrel-Cage Motors

Standard Motors Frame Size 180 to 315

Technical Data

Cast Iron Housing. Basic Version

IE3 Rated Output kW	Size	Type	Rated Speed rpm	Nominal Efficiency	Power Factor	Rated Current at 400v A	Rated Torque Nm	Starting Torque (For Direct-on-Line starting as multiple of the rated) Torque	Starting Current (For Direct-on-Line starting as multiple of the rated) Current	Weight Kg
3000 rpm, 2-pole, 50 Hz, 400V										
22	180	56224	2950	92.7	0.89	38.5	71.0	2.3	7.5	160
30	200	59303	2955	93.3	0.87	53.0	97.0	2.5	7.0	225
37		59376	2955	93.7	0.88	65.0	120	2.5	7.1	250
45	225	62454	2960	94.0	0.89	78.0	145	2.4	6.9	315
55	250	65555	2970	94.3	0.86	99.0	177	2.3	6.7	385
75	280	68753	2975	94.7	0.89	128	241	2.4	6.8	510
90		68904	2975	95.0	0.90	152	289	2.4	7.2	590
110	315S	71115	2982	95.2	0.91	183	352	2.4	7.1	750
132	315M	71135	2982	95.4	0.91	220	423	2.5	7.2	880
160	315L	71165	2982	95.6	0.92	265	512	2.8	7.8	980
200		71205	2982	95.8	0.92	330	640	2.5	7.2	1150
1500 rpm, 4-pole, 50 Hz, 400V										
18.5	180	57183	1470	92.6	0.82	35.0	120	2.5	7.2	165
22		57223	1470	93.0	0.83	41.0	143	2.3	6.8	170
30	200	60304	1470	93.6	0.84	55.0	195	2.6	7.3	240
37	225	63374	1478	93.9	0.86	66.0	239	2.5	6.4	285
45		63453	1478	94.2	0.86	80.0	291	2.6	6.6	340
55	250	66553	1482	94.6	0.87	96	354	2.5	6.8	420
75	280	69754	1485	95.0	0.86	133	482	2.5	6.9	570
90		69904	1485	95.2	0.87	157	579	2.6	7.2	670
110	315S	72115	1486	95.4	0.83	202	706	2.6	6.8	760
132	315M	72134	1485	95.6	0.85	230	846	2.8	7.3	960
160	315L	72165	1488	95.8	0.88	275	1025	2.9	7.3	990
200		72205	1487	96.0	0.86	350	1284	3.2	7.4	1190
250		72255	1483	96.0	0.86	435	1610	2.8	7.9	1250

IEC Three-Phase Squirrel-Cage Motors

Standard Motors Frame Size 180 to 315

Technical Data

Cast Iron Housing. Basic Version

IE3 Rated Output kW	Size	Type	Rated Speed rpm	Nominal Efficiency	Power Factor	Rated Current at 400v A	Rated Torque Nm	Starting Torque For Direct-on-Line starting as multiple of the rated Torque	Starting Current For Direct-on-Line starting as multiple of the rated Current	Weight Kg
1000 rpm, 6-pole, 50 Hz, 400V										
15	180	58155	975	91.2	0.80	29.5	147	2.3	5.9	180
18.5	200	61185	978	91.7	0.79	370	181	2.5	5.6	215
22		61225	978	92.2	0.79	43.5	215	2.5	5.6	230
30	225	64305	982	92.9	0.83	56.0	292	2.6	6.6	325
37	250	67375	985	93.3	0.85	67.0	359	2.7	7.0	405
45	280	70455	988	93.7	0.85	82.0	435	3.0	6.8	510
55		70555	986	94.1	0.85	99.0	532	3.3	7.2	560
75	315S	73755	990	94.6	0.84	136	723	2.6	7.5	750
90	315M	73905	991	94.9	0.85	161	867	2.5	6.7	890
110	315L	73115	991	95.1	0.84	199	1060	2.8	7.2	990
132		73135	992	95.4	0.82	245	1271	3.3	8.0	1130
160		73165	992	95.6	0.86	295	1540	3.5	8.5	1260

Three-Phase Electrical Motors (Dimensional Specification)

اطلاعات ابعادی موتورهای سه فاز

Industrial Motors

IEC Three-Phase Squirrel-Cage Motors

Foot-Mounted Motor, IMB3

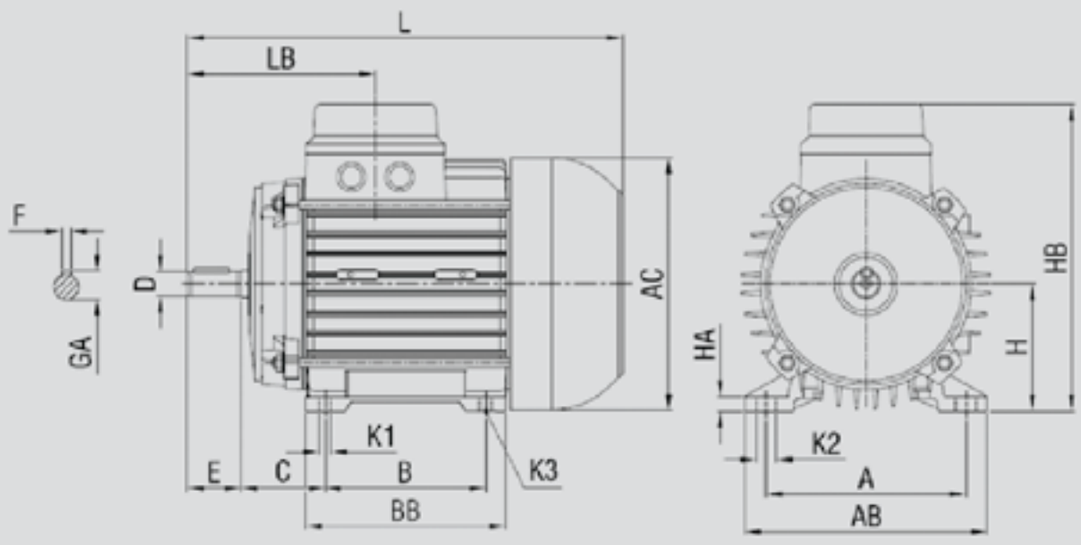
Aluminium Housing

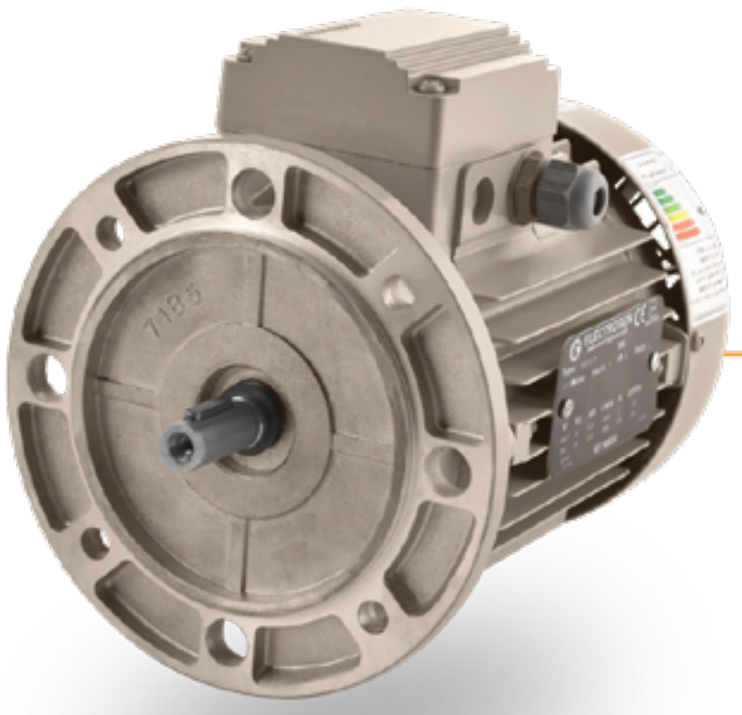


Technical Data

Frame Size	No. of Poles	Dimension drawing according to IEC																	
		H	B	A	C	K1	K2	K3	D	E	F	GA	HA	BB	AB	AC	HB	LB	L
63	2-8	63	80	100	40	7	12	M6	11	23	4	12.5	7	101	120	124	157	91.5	208
71		71	90	112	47				14	30	5	16	11	108	136	141	176	105	244
80		80	100	125	50	9	16.5	M8	19	40	6	21.5	12	125	150	159	203	118	273
90		90	125	140	56	10	17.5		24	50	8	27	15	155	174	176	216	133	327
100		100	140	160	63	12	21	M10	28	60		31	16	175	193	194	238	148	402
112		112		190	70		22							176	233	218	260	154	432
132		132	178	216	89	12			38	80	10	41		218	262	259	327	193	532
160		160	254	254	108	12.5	23	M12	42	110	12	45	23	302	318	313	388	264	620

Dimensions





IEC Three-Phase Squirrel-Cage Motors

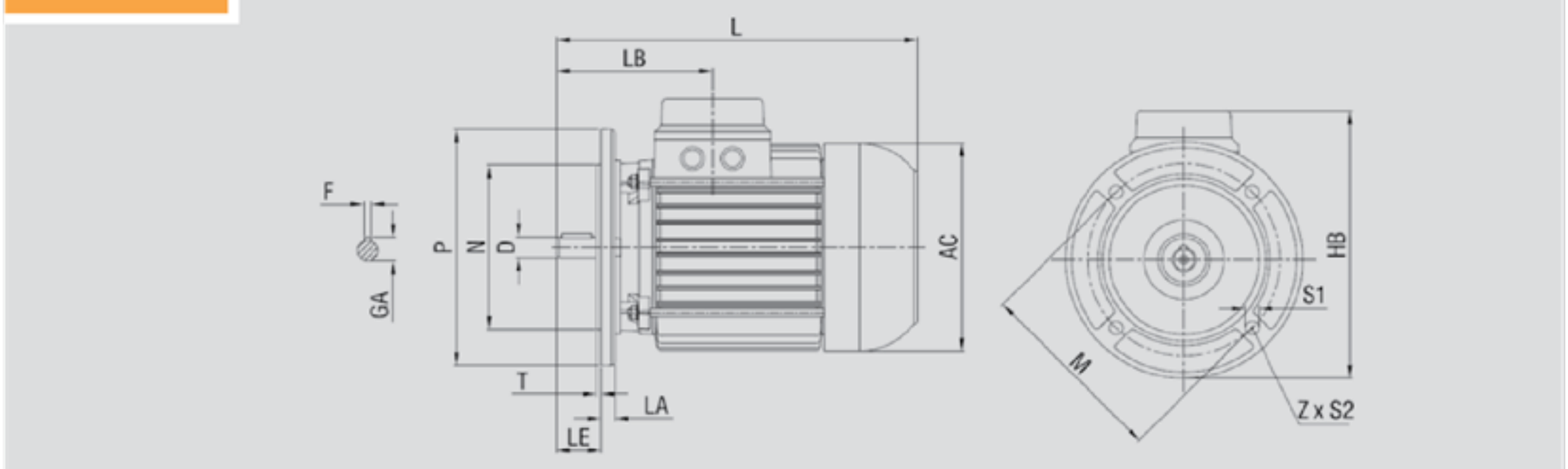
Flange-Mounted Motor, IMB5

Aluminium Housing

Technical Data

Frame Size	No. of Poles	Dimension drawing according to IEC															
		P	N	M	LA	T	D	LE	F	GA	AC	HB	Z	S1	S2	LB	L
63	2-8	140	95	115	11	3	11	23	4	12.5	124	164	4	9	M8	91.5	208
71		160	110	130	9	3.5	14	30	5	16	141	185				105	244
80		200	130	165	11		19	40	6	21.5	159	223		12	M10	118	273
90							24	50	8	27	176	226				133	327
100		250	180	215	15	4	28	60		31	194	262		13	M12	148	402
112											218	272				154	432
132		299	230	265	17		38	80	10	41	259	346		14.5		193	532
160		350	250	300	19	5	42	110	12	45	313	404		17	M16	264	620

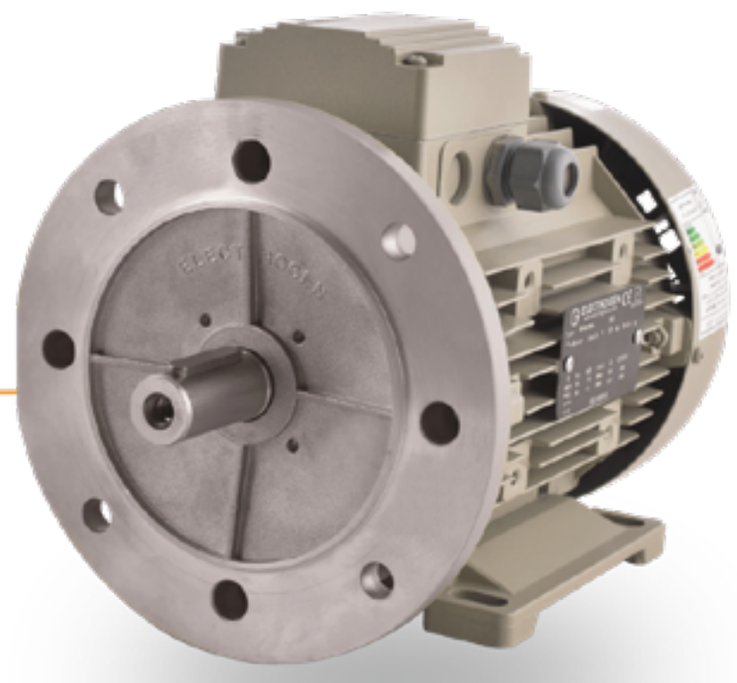
Dimensions



IEC Three-Phase Squirrel-Cage Motors

Foot and Flange-Mounted Motor, IMB35

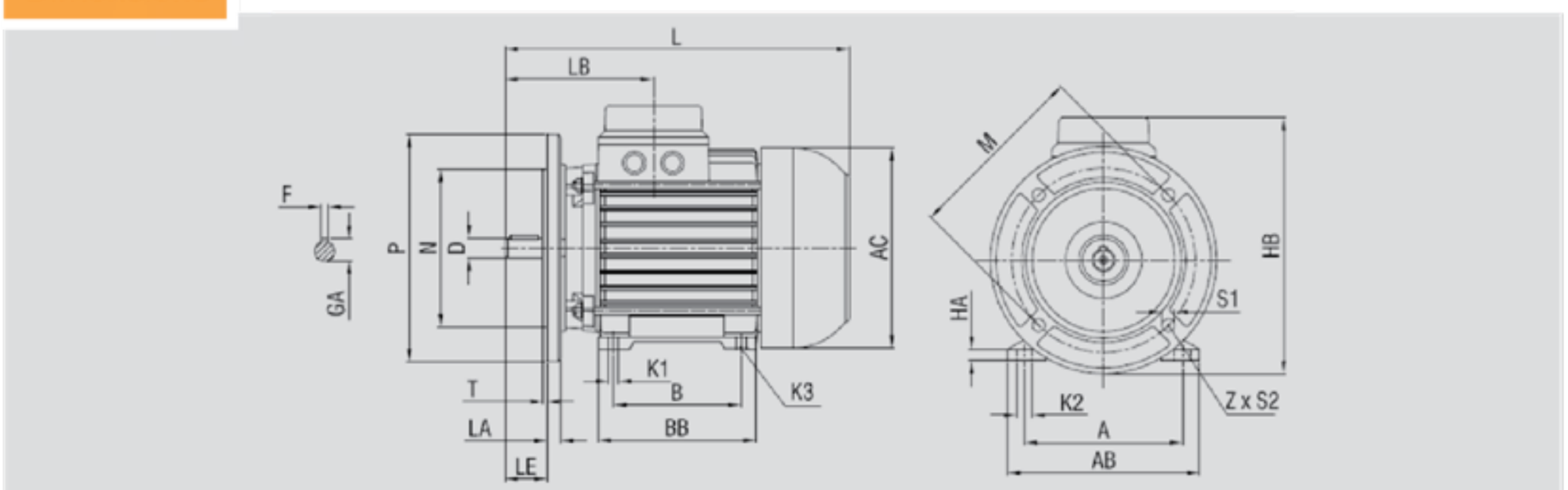
Aluminium Housing

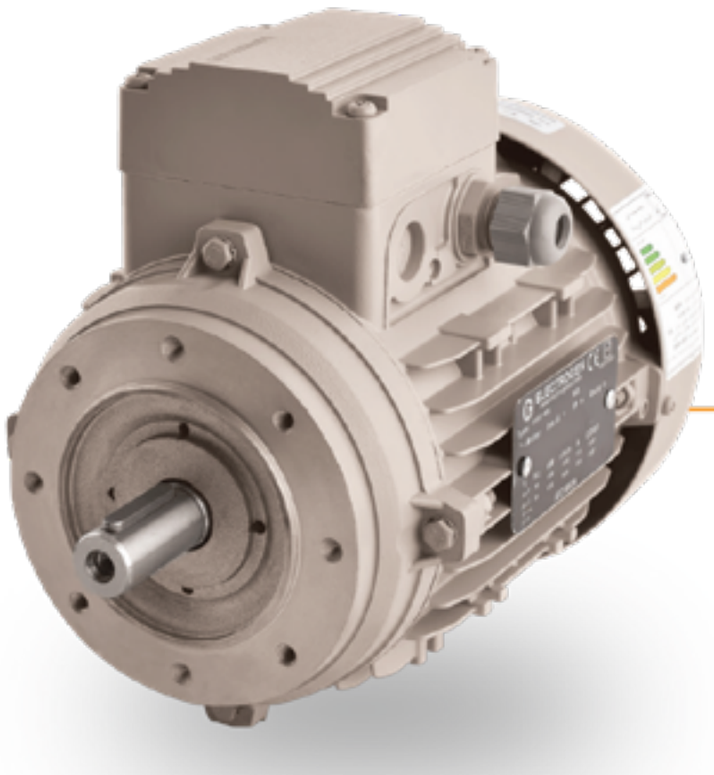


Technical Data

Frame Size	No. of Poles	Dimension drawing according to IEC																						
		P	N	M	LA	T	D	LE	F	GA	AC	HB	Z	S1	S2	LB	L	B	A	K1	K2	K3	HA	BB	AB
63	2-8	140	95	115	11	3	11	23	4	12.5	124	164	4	9	M8	91.5	208	80	100	7	12	M6	7	101	120
71		160	110	130	9	3.5	14	30	5	16	141	185				105	244	90	112				11	108	136
80		200	130	165	11		19	40	6	21.5	159	223		12	M10	118	273	100	125	9	16.5	M8	12	125	150
90							24	50	8	27	176	226				133	327	125	140	10	17.5		15	155	174
100		250	180	215	15	4	28	60		31	194	262		13	M12	148	402	140	160	12	21	M10	16	175	193
112											218	272				154	432		190		22			176	233
132		299	230	265	17		38	80	10	41	259	346		14.5		193	532	178	216	12				218	262
160		350	250	300	19	5	42	110	12	45	313	404		17	M16	264	620	254	254	12.5	23	M12	23	302	318

Dimensions





IEC Three-Phase Squirrel-Cage Motors

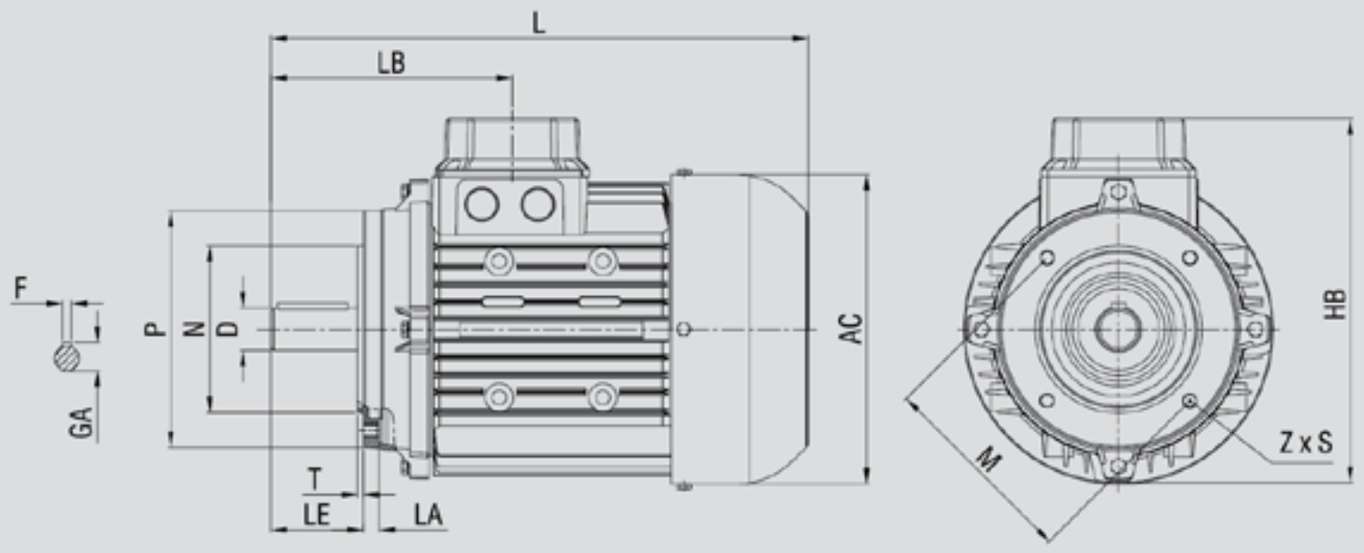
Flange-Mounted Motor, IMB14

Aluminium Housing

Technical Data

Frame Size	Housing Material		No. of Poles	Dimension drawing according to IEC													
	Cast Aluminium	Cast Iron		P	N	M	LA	T	D	LE	AC	HB	L	LB	Z	S	F	GA
63	Yes	No	2-8	90	60	75	9.5	2.5	11	23	124	156	208	91.5	4	M6	4	12.5
71				106	70	85		3	14	30	141	174	244	105			5	16
80				119	80	100	9		19	40	159	203	273	118			6	21.5
90				135	95	115			24	50	176	215	327	133		M8	8	27
100				160	110	130	16.5	3.5	28	60	194	235	402	148				31
112											218	257	432	154				

Dimensions



IEC Three-Phase Squirrel-Cage Motors

Foot and Flange-Mounted Motor, IMB34

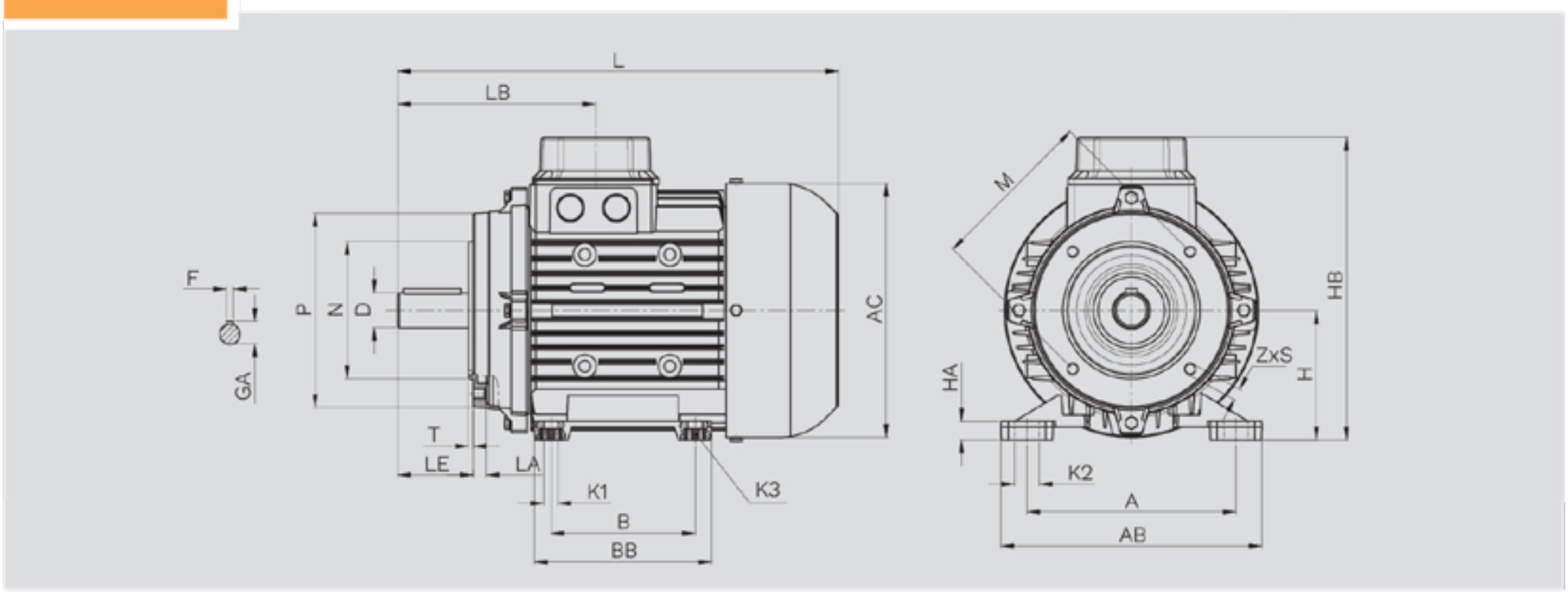
Aluminium Housing



Technical Data

Frame Size	No. of Poles	Dimension drawing according to IEC																					
		P	N	M	LA	T	D	LE	F	GA	AC	HB	Z	S	LB	L	B	A	K1	K2	K3	HA	BB	AB
63	2-8	90	60	75	9.5	2.5	11	23	4	12.5	124	157	4	M6	91.5	208	80	100	7	12	M6	7	101	120
71		106	70	85		3	14	30	5	16	141	176			105	244	90	112				11	108	136
80		119	80	100	9		19	40	6	21.5	159	203			118	273	100	125	9	16.5	M8	12	125	150
90		135	95	115			24	50	8	27	176	216		M8	133	327	125	140	10	17.5		15	155	174
100		160	110	130	16.5	3.5	28	60		31	194	238			148	402	140	160	12	21	M10	16	175	193
112											218	260			154	432		190		22			176	233

Dimensions



IEC Three-Phase Squirrel-Cage Motors

Foot-Mounted Motor, IMB3

Cast Iron Housing



Technical Data

Frame Size	No. of Poles	Dimension drawing according to IEC																		
		H	B	B`	A	C	K1	K2	K3	D	E	F	GA	HA	BB	AB	AC	HB	LB	L
160	2-8	160	254	-	254	108	12.5	23	M12	42	110	12	45	23	302	318	313	388	264	620
180		180	239	279	279	121	14	19		48		14	51.5	19	328	344	355	438	268	668
200		200	305	-	318	133	18	26	M16	55		16	59	27	355	377	395	500	307	728
225	2	225	286	311	357	149	19	27						34	357	437	438	548	304	802
	4-8									60	140	18	64						334	836
250	2	250	349	-	405	168	24	30	M20					40	408	486	489	644	373	881
	4									65			69							
280	2	280	368	419	460	190									479	546	547	725	350	960
	4									75		20	79.5							
315 [1]	2	315	406 (S)	457(M)	508	216	28	35	M24	65	140	18	69	50	547	610	616	828	378	1063
	4									80	170	22	85						408	1093
315 [2]	2		457 (M)	508 (L)						65	140	18	69		596				378	1224
	4									80	170	22	85						408	1254
315 [3]	2									65	140	18	69		630				378	1380
	4									80	170	22	85						408	1410

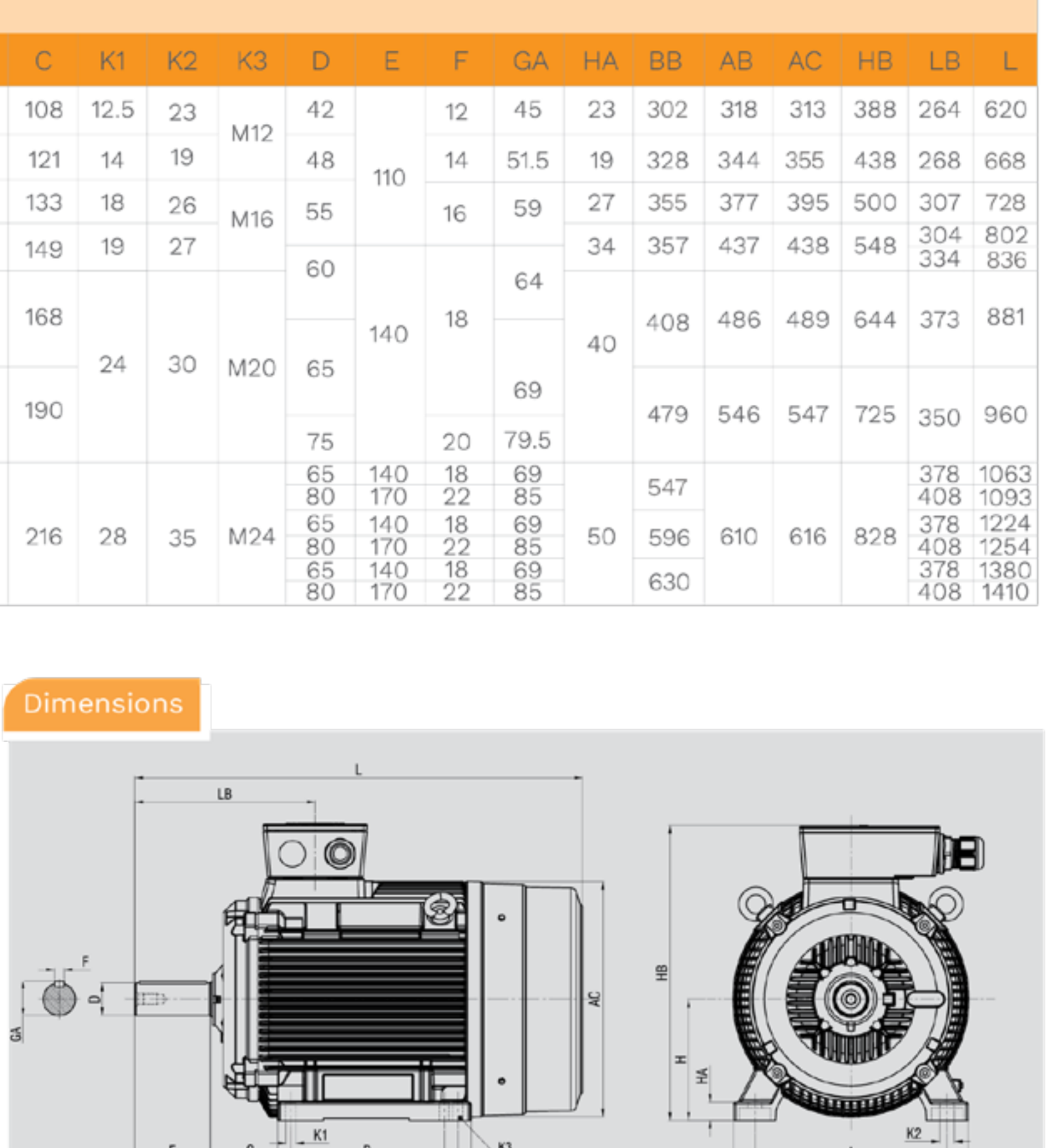
Types:

1: 72115-71115

2: 72134-72165-71135-71165

3: 72205-72255-71205

Dimensions





IEC Three-Phase Squirrel-Cage Motors

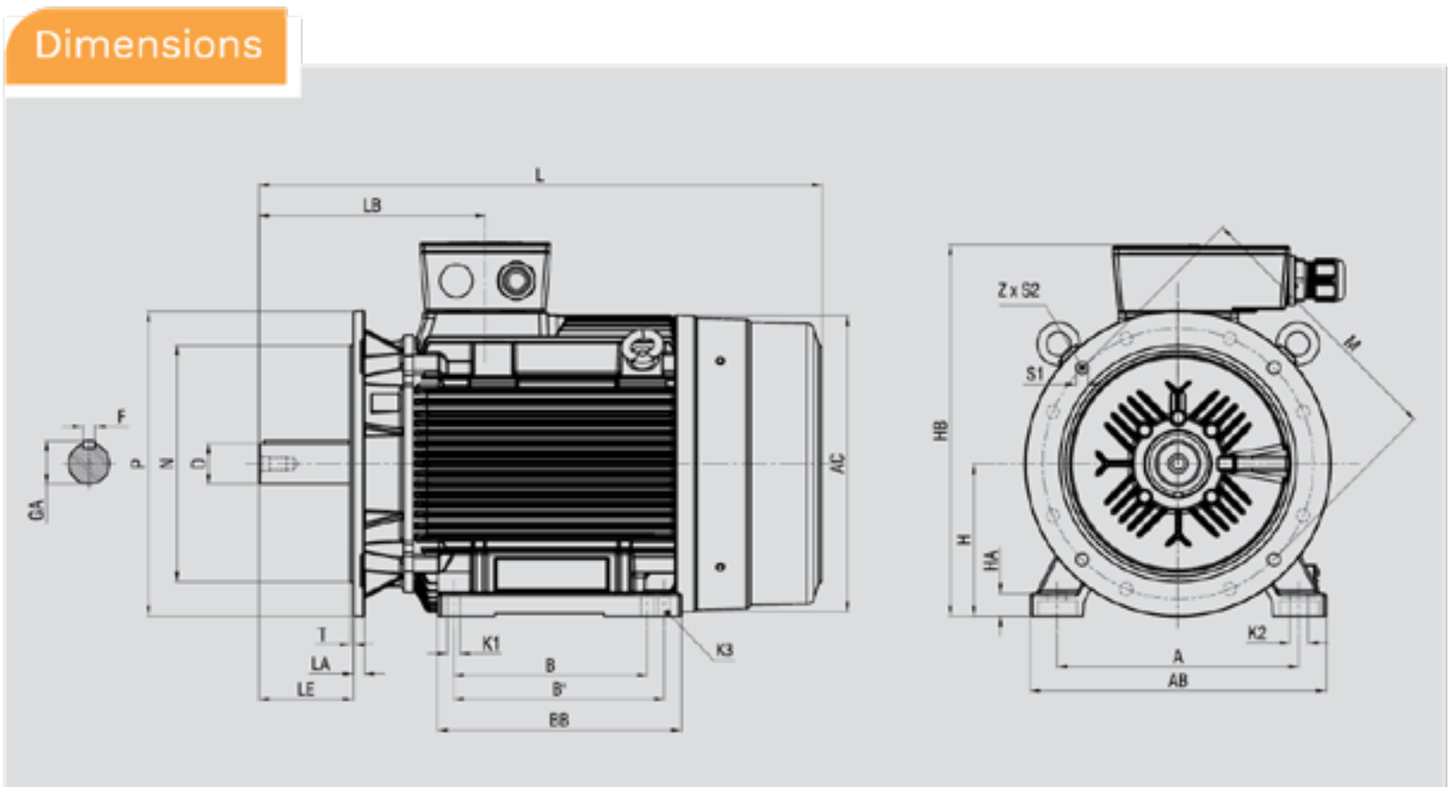
Foot and Flange-Mounted Motor, IMB35

Cast Iron Housing

Technical Data

Frame Size	No. of Poles	Dimension drawing according to IEC																							
		P	N	M	LA	T	D	LE	F	GA	AC	HB	Z	S1	S2	LB	L	B	B`	A	K1	K2	K3	HA	BB	AB
160	2-8	350	250	300	19	5	42	110	12	45	313	404	4	17	M16	264	620	254	-	254	12.5	23	M12	23	302	318
180					13		48		14	51.5	355	438		18.5		268	664	239	279	279	14	19		19	328	344
200		400	300	350	15		55		16	59	395	500				307	728	305	-	318	18	26	M16	27	355	377
225	2	450	350	400	16						438	548	8			304	802	286	311	357	19	27		34	357	437
	4-8						60	140	18	64						334	836									
250	2	550	450	500	18						489	644				373	881	349	-	405	24	30	M20	40	408	486
	4						65			69																
280	2										547	725				350	960	368	419	460					479	546
	4						75		20	79.5																
315 S	2	660	550	600	23	6	65	140	18	69	616	828	8	24	M20	378	1063	406 (S)	457(M)	508	28	35	M24	50	547	610
	4				26		80	170	22	85						408	1093									
315 M	2				23		65	140	18	69						378	1224	457 (M)	508 (L)						596	
	4				26		80	170	22	85						408	1254									
315 L	2				23		65	140	18	69						378	1380								630	
	4				26		80	170	22	85						408	1410									

Dimensions



Types:

1: 72115-71115

2: 72134-72165-71135-71165

3: 72205-72255-71205

Spare Parts

Part No.	Designation	Part No.	Designation
1	Frame	10	Fan
2	Stator	11	Fan Cover
3	Shaft	12	Screw
4	Rotor	13	Frame Feet
5	Ball Bearing	14	Screw for Frame Feet
6	Endshield, ND-end	15	Terminal board
7	Wave Spring	16	Screw
8	Endshield, D-end	17	Terminal box Cover
9	Screw	18	Shaft Key

