

HASCON

electric motor

Squirrel-cage motors

Performance data

HASCON electric motor

2 Pole-3000 rpm synchronous speed 50Hz

Motor type	rated output KW	rated output rpm	IFL 380 V	IFL 400 V	IFL 415 V	IST / IFL	EFF %	Power factor COS	Rated torque Nm	TST/ TFL	M of I kgm^2	LW dB (A)	Noise level LW dB (A)	Net weight kg
HX3-801-2	0.75	2840	1.80	1.70	1.60	6.80	77.50	0.83	2.50	2.30	2.40	0.0008	62	16
HX3-802-2	1.1	2840	2.40	2.30	2.20	7.30	82.80	0.83	3.70	2.30	2.60	0.0009	62	18
HX3-90S-2	1.5	2840	3.25	3.10	3.00	7.60	84.10	0.84	5.00	2.50	2.80	0.0012	67	26
HX3-90L-2	2.2	2840	4.60	4.40	4.20	7.50	85.60	0.85	7.40	2.40	2.70	0.0014	67	30
HX3-100L-2	3	2840	6.00	5.70	5.50	7.50	86.70	0.87	9.90	2.40	2.60	0.0040	74	40
HX3-112M-2	4	2840	7.90	7.50	7.20	7.50	87.60	0.88	13.30	2.30	2.40	0.0057	77	47
HX3-132S1-2	5.5	2840	10.70	10.20	9.80	7.60	88.60	0.88	18.20	2.20	2.70	0.0112	79	63
HX3-132S2-2	7.5	2900	14.30	13.60	13.10	7.20	89.50	0.89	24.70	2.30	2.30	0.0134	79	70
HX3-160M1-2	11	2910	20.80	19.70	19.00	7.30	90.50	0.89	36.10	2.20	2.30	0.0391	81	120
HX3-160M2-2	15	2930	28.00	26.60	25.70	7.50	91.30	0.89	48.90	2.20	2.30	0.0464	81	128
HX3-160L-2	18.5	2930	34.40	32.70	31.50	7.60	91.80	0.89	60.30	2.40	2.70	0.0567	81	150
HX3-180M-2	22	2930	40.70	38.70	37.30	7.70	92.20	0.89	71.70	2.20	2.30	0.0783	83	190
HX3-200L1-2	30	2930	55.10	52.40	50.50	7.00	92.90	0.89	97.80	2.40	2.60	0.1277	84	252
HX3-200L2-2	37	2950	67.70	64.30	62.00	7.00	93.30	0.89	119.80	2.20	2.30	0.1432	84	275
HX3-225M-2	45	2970	82.00	77.90	75.10	7.10	93.70	0.89	144.70	2.20	2.30	0.2400	86	315
HX3-250M-2	55	2970	99.90	94.90	91.50	7.10	94.00	0.89	176.90	2.20	2.30	0.3214	89	396
HX3-280S-2	75	2970	135.30	128.60	123.90	6.50	94.60	0.89	241.20	2.00	2.30	0.5964	91	571
HX3-280M-2	90	2970	161.70	153.60	148.10	6.80	95.00	0.89	289.40	2.10	2.40	0.6953	91	595
HX3-315S-2	110	2980	194.70	184.90	178.20	7.00	95.40	0.9	352.50	2.00	2.40	1.2154	92	965
HX3-315M-2	132	2980	233.60	221.90	213.90	7.00	95.40	0.9	423.00	2.20	2.60	1.5965	92	1067
HX3-315L1-2	160	2980	280.00	266.00	256.40	6.80	95.40	0.91	512.80	2.10	2.40	1.8128	92	1151
HX3-315L2-2	200	2980	350.00	332.50	320.50	7.20	95.40	0.91	640.90	2.30	2.70	2.0806	92	1208
HX3-355M-2	250	2980	437.10	415.20	400.20	7.10	95.80	0.91	801.20	2.00	2.20	3.6668	100	1638
HX3-355L-2	315	2980	549.00	521.50	502.70	7.10	95.80	0.91	1,009.50	2.00	2.20	4.2230	100	1834

■ IFL=full load current ■ IST=locked rotor current ■ TST=locked rotor torque ■ TM=maximum torque ■ TFL=full load torque

4 Pole-1500 rpm synchronous speed 50Hz

Motor type	rated output KW	rated output rpm	IFL 380 V	IFL 400 V	IFL 415 V	IST / IFL	EFF %	Power factor COS	Rated torque Nm	TST/ TFL	M of I kgm^2	LW dB (A)	Noise level LW dB (A)	Net weight kg
HX3-801-4	0.55	1390	1.40	1.30	1.30	6.30	80.70	0.75	3.80	2.30	2.50	0.0021	56	16
HX3-802-4	0.75	1390	1.80	1.80	1.70	6.50	82.30	0.75	5.20	2.30	2.60	0.0026	56	18
HX3-90S-4	1.1	1405	2.70	2.50	2.40	6.60	83.80	0.75	7.50	2.30	2.50	0.0026	59	25
HX3-90L-4	1.5	1405	3.60	3.40	3.30	6.90	85.00	0.75	10.20	2.40	2.70	0.0031	59	29
HX3-100L1-4	2.2	1425	4.80	4.50	4.40	7.50	86.40	0.81	14.70	2.30	2.60	0.0073	64	37
HX3-100L2-4	3	1425	6.40	6.00	5.80	7.60	87.40	0.82	20.10	2.30	2.70	0.0073	64	42
HX3-112M-4	4	1440	8.40	8.00	7.70	7.70	88.30	0.82	26.50	2.30	2.70	0.0099	65	52
HX3-132S-4	5.5	1440	11.40	10.90	10.50	7.50	89.20	0.82	36.50	2.10	2.40	0.0223	71	70
HX3-132M-4	7.5	1445	15.20	14.50	14.00	7.40	90.10	0.83	49.60	2.20	2.50	0.0308	71	82
HX3-160M-4	11	1460	21.60	20.50	19.80	7.50	91.00	0.85	72.00	2.30	2.60	0.0780	73	135
HX3-160L-4	15	1460	28.90	27.40	26.40	7.50	91.80	0.86	98.10	2.20	2.40	0.0957	73	156
HX3-180M-4	18.5	1470	35.40	33.70	32.50	7.70	92.20	0.86	120.20	2.40	2.70	0.1446	76	203
HX3-180L-4	22	1475	42.00	39.90	38.40	7.80	92.60	0.86	142.40	2.20	2.50	0.1643	76	218
HX3-200L-4	30	1475	56.90	54.00	52.10	7.20	93.20	0.86	194.20	2.20	2.50	0.2725	76	275
HX3-225S-4	37	1480	69.80	66.30	63.90	7.30	93.60	0.86	238.80	2.20	2.60	0.4222	78	328
HX3-225M-4	45	1480	84.70	80.40	77.50	7.40	93.90	0.86	290.40	2.20	2.40	0.4878	78	355
HX3-250M-4	55	1480	103.20	98.00	94.50	7.40	94.20	0.86	354.90	2.20	2.70	0.6864	79	473
HX3-280S-4	75	1480	136.70	129.90	125.20	6.70	94.70	0.88	484.00	2.30	2.50	1.1648	80	596
HX3-280M-4	90	1480	163.60	155.40	149.80	6.90	95.00	0.88	580.70	2.30	2.50	1.5184	80	713
HX3-315S-4	110	1480	199.10	189.10	182.30	6.90	95.40	0.88	709.80	2.20	2.60	3.2344	88	1012
HX3-315M-4	132	1480	238.90	227.00	218.70	6.90	95.40	0.88	851.80	2.30	2.70	3.4216	88	1147
HX3-315L1-4	160	1480	286.30	272.00	262.20	6.90	95.40	0.89	1,032.40	2.20	2.60	3.9416	88	1224
HX3-315L2-4	200	1485	358.00	340.00	327.70	6.90	95.40	0.89	1,286.20	2.30	2.40	4.6696	88	1331
HX3-355M-4	250	1490	441.00	418.50	403.40	6.90	95.80	0.90	1,602.30	2.20	2.40	5.8968	95	1650
HX3-355L-4	315	1490	555.10	527.30	508.30	6.90	95.80	0.90	2,019.00	2.20	2.30	6.9264	95	1804

■ IFL=full load current ■ IST=locked rotor current ■ TST=locked rotor torque ■ TM=maximum torque ■ TFL=full load torque

Squirrel-cage motors

Performance data

HASCON electric motor

6 Pole-1000 rpm synchronous speed 50Hz

Motor type	rated output KW	rated output rpm	IFL 380 V	IFL 400 V	IFL 415 V	IST / IFL	EFF %	Power factor COS	Rated torque Nm	TST/ TFL	M of I kgm^2	LW dB (A)	Net weight kg
HX3-90S-6	0.75	910	2.0	1.9	1.9	5.8	77.7	0.72	7.9	2.1	0.0032	57	24
HX3-90L-6	1.1	910	2.9	2.7	2.6	5.9	79.9	0.73	11.5	2.3	0.0042	57	28
HX3-100L-6	1.5	920	3.8	3.6	3.5	6.0	81.5	0.74	15.6	2.1	0.0074	61	38
HX3-112M-6	2.2	940	5.4	5.1	5.0	6.0	83.4	0.74	22.4	2.2	0.0147	65	45
HX3-132S-6	3	960	7.3	6.9	6.6	6.2	84.9	0.74	29.8	2.1	0.0305	69	68
HX3-132M1-6	4	960	9.5	9.1	8.7	6.8	86.1	0.74	39.8	2.0	0.0378	69	79
HX3-132M2-6	5.5	960	12.7	12.1	11.7	7.1	87.4	0.75	54.7	2.0	0.0473	69	84
HX3-160M-6	7.5	970	16.4	15.6	15.0	6.7	89.0	0.78	73.8	2.2	0.0924	73	126
HX3-160L-6	11	970	23.5	22.3	21.5	6.9	90.0	0.79	108.3	2.1	0.1218	73	153
HX3-180L-6	15	970	30.9	29.4	28.3	7.2	91.0	0.81	147.7	2.0	0.2174	73	207
HX3-200L1-6	18.5	970	37.9	36	34.7	7.2	91.5	0.81	182.1	2.2	0.3308	73	250
HX3-200L2-6	22	970	44.3	42.1	40.6	7.3	92.0	0.82	216.6	2.2	0.3780	73	259
HX3-225M-6	30	980	60.8	57.8	55.7	7.1	92.5	0.81	292.3	2.1	0.5744	74	382
HX3-250M-6	37	980	72.0	68.4	65.9	7.1	93.0	0.84	360.6	2.2	0.8757	76	449
HX3-280S-6	45	980	85.0	80.8	77.9	7.2	93.5	0.86	438.5	2.1	1.4700	78	586
HX3-280M-6	55	980	103.6	98.4	94.9	7.2	93.8	0.86	536.0	2.1	1.7325	78	645
HX3-315S-6	75	990	142.3	135.2	130.3	6.7	94.2	0.85	723.5	2.0	4.3155	83	1006
HX3-315M-6	90	990	172.3	163.7	157.7	6.7	94.5	0.84	868.2	2.0	4.4940	83	1107
HX3-315L1-6	110	990	207.0	196.6	189.5	6.7	95.0	0.85	1061.1	2.0	5.7225	83	1197
HX3-315L2-6	132	990	245.5	233.2	224.8	6.7	95.0	0.86	1273.3	2.0	6.4260	83	1268
HX3-355M1-6	160	990	294.1	279.4	269.3	6.7	95.0	0.87	1543.4	2.0	9.2925	85	1554
HX3-355M2-6	200	990	367.7	349.3	336.7	6.7	95.0	0.87	1929.3	2.0	10.0280	85	1768
HX3-355L-6	250	990	459.6	436.6	420.8	6.7	95.0	0.87	2411.6	2.0	10.8150	85	1902

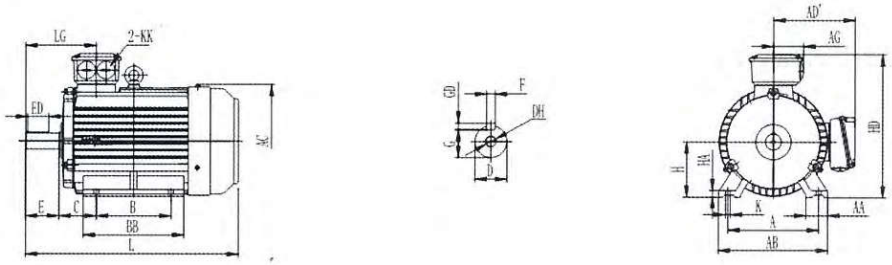
■ IFL=full load current ■ IST=locked rotor current ■ TST=locked rotor torque ■ TM=maximum torque ■ TFL=full load torque

Squirrel-cage motors

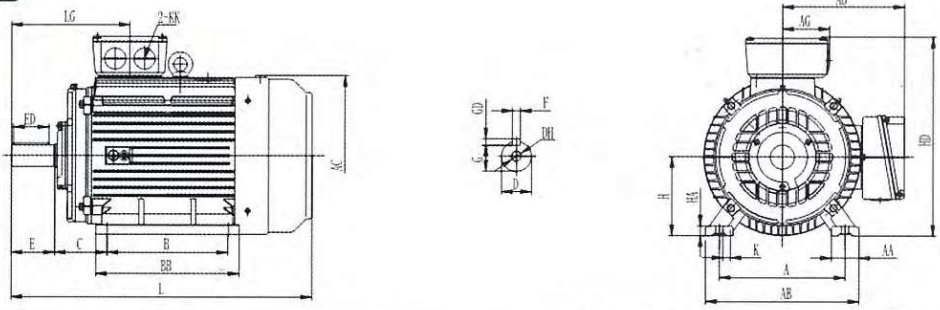
Dimensions foot mount B3

HASCON electric motor

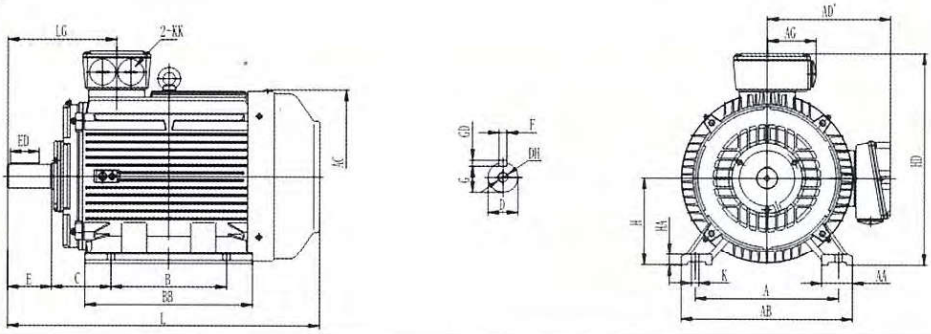
HC-80~132



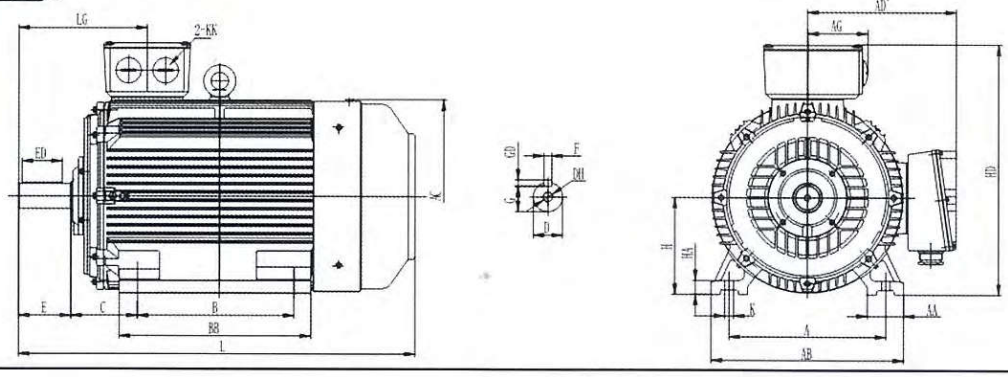
HC-160~200



HC-225~280



HC-315~355



Frame size	A	AA	AB	AC	AD	AG	B	BB	C	D	DH	E	ED	F	G	GD	H	HA	HD	K	KK	L	LG
80M	125	34	160	175	140	51	100	130	50	19	M6 x 16	40	25	6	15.5	6	80	10	230	10	M25 x 1.5	295	106
90S	140	36	180	190	150	60	100	135	56	24	M8 x 19	50	40	8	20	7	90	12.5	260	10	M25 x 1.5	320	124
90L	140	36	180	190	150	60	125	160	56	24	M8 x 19	50	40	8	20	7	90	12.5	260	10	M25 x 1.5	345	124
100L	160	40	200	215	160	60	140	182	63	28	M10 x 22	60	45	8	24	7	100	14	275	12	M25 x 1.5	385	140
112M	190	45	230	236	185	75	140	195	70	28	M10 x 22	60	45	8	24	7	112	14	310	12	M32 x 1.5	410	145
132S	216	52	265	275	205	75	140	205	89	38	M12 x 28	80	63	10	33	8	132	16	350	12	M32 x 1.5	480	169
132M	216	52	265	275	205	75	178	245	89	38	M12 x 28	80	63	10	33	8	132	16	350	12	M32 x 1.5	520	169
160M	254	65	320	330	250	95	210	260	108	42	M16 x 36	110	90	12	37	8	160	19	425	14.5	M40 x 1.5	610	270
160L	254	65	320	330	250	95	254	305	108	42	M16 x 36	110	90	12	37	8	160	19	425	14.5	M40 x 1.5	655	270
180M	279	74	350	380	270	95	241	297	121	48	M16 x 36	110	90	14	42.5	9	180	22	460	14.5	M40 x 1.5	680	277
180L	279	74	350	380	270	95	279	327	121	48	M16 x 36	110	90	14	42.5	9	180	22	460	14.5	M40 x 1.5	720	277
200L	318	75	395	420	325	120	305	370	133	55	M20 x 42	110	90	16	49	10	200	25	515	18.5	M50 x 1.5	760	300
225S(4-8P)	356	75	436	465	335	120	286	355	149	60	M20 x 42	140	110	18	53	11	225	28	560	1835	M50 x 1.5	825	340
225M(2P)	356	75	436	465	335	120	311	380	149	55	M20 x 42	110	90	16	49	10	225	28	560	18.5	M50 x 1.5	820	310
225M(4-8P)	356	75	435	465	335	120	311	380	149	60	M20 x 42	140	110	18	53	11	225	28	560	18.5	M50 x 1.5	850	340
250M(2P)	406	88	495	520	370	160	349	440	168	60	M20 x 42	140	110	18	53	11	250	33	620	24	M63 x 1.5	925	353
250M1(4-8P)	406	88	495	520	370	160	349	440	168	65	M20 x 42	140	110	18	58	11	250	33	620	24	M63 x 1.5	925	353
250M2(4P)	406	88	495	520	370	160	349	440	168	70	M20 x 42	140	110	20	62.5	12	250	33	620	24	M63 x 1.5	935	353
280S(2P)	457	103	550	570	400	160	368	495	190	65	M20 x 42	140	110	18	58	11	280	35	685	24	M63 x 1.5	960	350
280S(4-8P)	457	103	550	570	400	160	368	495	190	75	M20 x 42	140	110	20	67.5	12	280	35	685	24	M63 x 1.5	975	350
280M(2P)	457	103	550	570	400	160	419	535	190	65	M20 x 42	140	110	18	58	11	280	35	685	24	M63 x 1.5	1000	350
280M1(4-8P)	457	103	550	570	400	160	419	535	190	75	M20 x 42	140	110	20	67.5	12	280	35	685	24	M63 x 1.5	1015	350
280M2(4-8P)	457	103	550	570	400	160	419	535	190	80	M20 x 42	170	140	22	71	14	280	35	685	24	M63 x 1.5	1060	380
315S(2P)	508	120	630	650	495	195	406	515	216	65	M20 x 42	140	110	18	58	11	315	45	820	28	M63 x 1.5	1160	387
315M(2P)	508	120	630	650	495	195	457	625	216	65	M20 x 42	140	110	18	58	11	315	45	820	28	M63 x 1.5	1270	387
315L(2P)	508	120	630	650	495	195	508	625	216	65	M20 x 42	140	110	18	58	11	315	45	820	28	M63 x 1.5	1270	387
315S(4-8P)	508	120	630	650	495	195	406	515	216	80	M20 x 42	170	140	22	71	14	315	45	820	28	M63 x 1.5	1190	417
315M(4-8P)	508	120	630	650	495	195	457	625	216	80	M20 x 42	170	140	22	71	14	315	45	820	28	M63 x 1.5	1300	417
315L(4-8P)	508	120	630	650	495	195	508	625	216	80	M20 x 42	170	140	22	71	14	315	45	820	28	M63 x 1.5	1300	417
355M(2P)	610	125	735	735	640	330	560	775	254	75	M24 x 50	140	110	20	67.5	12	355	49	1000	28	M63 x 1.5	1500	420
355L(2P)	610	125	735	735	640	330	630	775	254	75	M24 x 50	140	110	20	67.5	12	355	49	1000	28	M63 x 1.5	1500	420
355M(4-8P)	610	125	735	735	640	330	560	775	254	95	M24 x 50	170	140	25	86	14	355	49	1000	28	M63 x 1.5	1530	450
*355M(4-8P)	610	125	735	735	640	330	560	775	254	100	M24 x 50	210	160	28	90	16	355	49	1000	28	M63 x 1.5	1570	490
355L(4-8P)	610	125	735	735	640	330	630	775	254	95	M24 x 50	170	140	25	86	14	355	49	1000	28	M63 x 1.5	1530	450
*355L(4-8P)	610	125	735	735	640	330	630	775	254	100	M24 x 50	210	160	28	90	16	355	49	1000	28	M63 x 1.5	1570	490

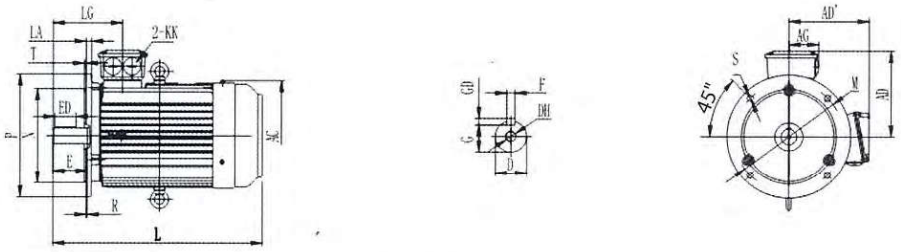
* These motors can also be supplied. Please state the dimensions of the shaft extension on order.

Squirrel-cage motors

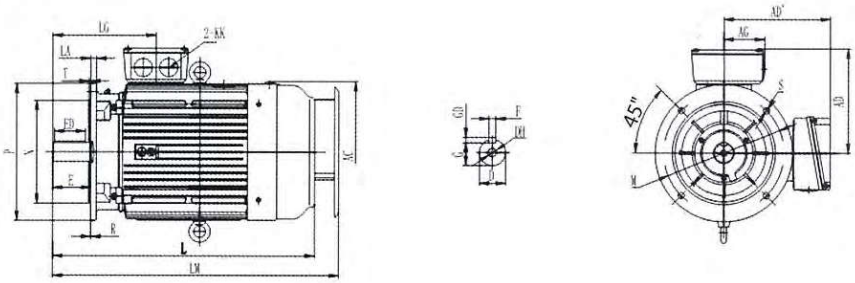
Dimensions flange mount B5 and V1

HASCON electric motor

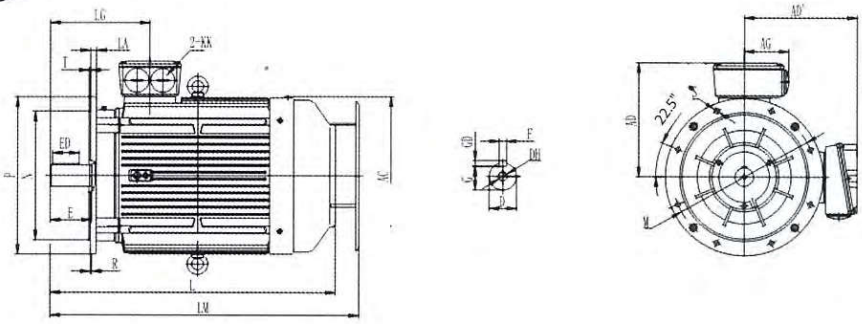
HC-80~132



HC-160~200



HC-225~280



HC-315~355

