



## Performance table for 4-Pole motors

### TEFC 3 Phase Squirrel Cage Induction Motors Crane & Hoist duty with DOL Starting Fr. 71 to 355L

Voltage : 415V ± 10%  
 Frequency : 50Hz ± 5%  
 Combined Variation : ± 10%

Ambient : 45°C  
 Duty : S3 / S4

Ins. Class : F  
 Temp. Rise : B  
 Protection : IP55

### 1500 rpm ( 4-Pole)

Frame size IEC	Type Ref. B3 Construction	60 Starts/hr.			150 Starts/hr.			300 Starts/hr.			With DOL Starting		Rotor GD <sup>2</sup> kgm <sup>2</sup>	Net Wt. B3 Const. kg					
		40 % CDF		60 % CDF		40 % CDF		60 % CDF		40 % CDF		Starting Current to Rated Current Ratio			Starting Torque to Rated Torque Ratio				
		kW	Rated Current Amps.	Rated Torque kg.m	kW	Rated Current Amps.	Rated Torque kg.m	kW	Rated Current Amps.	Rated Torque kg.m	Rated Speed RPM								
71	MC071433	0.55	1.56	0.41	0.55	1.56	0.41	0.55	1.56	0.41	0.55	1.56	0.41	1310	3.7	2.25	2.75	0.0033	7
80	MC080413	0.75	1.8	0.55	0.75	1.8	0.55	0.75	1.8	0.55	0.75	1.8	0.55	1340	4.5	2.30	2.75	0.0061	10
80	MC080433	1.1	3.1	0.80	1.1	3.1	0.80	1.1	3.1	0.80	1.1	3.1	0.80	1365	5.0	2.30	2.80	0.0072	11
90S	MC09S433	1.5	3.9	1.1	1.5	3.9	1.1	1.5	3.9	1.1	1.5	3.9	1.1	1385	5.0	2.25	2.75	0.0120	14
90L	MC09L453	2.2	5	1.6	2.2	5	1.6	2.2	5	1.6	2.2	5	1.6	1380	4.8	2.30	2.80	0.0160	17
100L	MC10L453	3.7	8	2.6	3.7	8	2.6	3.7	8	2.6	3.7	8	2.6	1380	6.0	2.30	3.00	0.0260	27
112M	MC11M453	5.5	12.4	3.8	5.5	12.4	3.8	5.5	12.4	3.8	5.5	12.4	3.8	1400	6.0	2.50	2.80	0.058	35
132S	MC13S4G3	7.5	14.8	5.1	7.5	14.8	5.1	7.5	14.8	5.1	7.5	14.8	5.1	1440	6.5	2.25	2.90	0.127	56
132M	MC13M4P3	9.3	18.1	6.3	9.3	18.1	6.3	9.3	18.1	6.3	9.3	18.1	6.3	1440	6.5	2.30	2.90	0.143	68
160M	MC16M4A3	11	22	7.4	11	22	7.4	11	22	7.4	11	22	7.4	1440	6.5	2.25	2.80	0.141	93
160M	MC16M4C3	13.2	25	8.9	12.1	23	8.2	13.2	25	8.9	12.1	23	8.2	1440	6.5	2.25	2.80	0.177	103
160M	MC16M4F3	15	30	10.1	15	30	10.1	15	30	10.1	15	30	10.1	1440	6.5	2.25	2.80	0.193	107
160L	MC16L4P3	18.5	36	12.5	18.5	36	12.5	17	33	11.5	17	33	11.5	1445	6.5	2.10	2.50	0.265	132
180L	MC18L473	22	39	14.7	22	39	14.7	22	39	14.7	22	39	14.7	1460	6.5	2.40	2.60	0.540	188
200L	MC20L433	30	52	19.9	30	52	19.9	28	49	18.6	26	45	17.3	1465	6.5	2.60	2.60	0.860	270
225S	MC22S413	37	64	24.5	37	64	24.5	34	59	22.5	32	57	21.2	1470	6.5	2.50	2.60	1.32	328
225M	MC22M433	45	78	29.8	45	78	29.8	40	69	26.5	37	66	24.5	1470	6.5	2.50	2.50	1.60	362
250M	MC25M413	55	97	36.3	55	97	36.3	52	92	34.3	48	84	31.7	1475	6.5	2.50	2.60	2.83	475
280S	MC28S413	75	130	49.4	75	130	49.4	70	121	46	67	116	44.1	1480	6.5	2.30	2.60	5.00	653
280M	MC28M433	90	156	59.2	90	156	59.2	84	146	55.3	80	139	52.6	1480	6.5	2.30	2.60	6.00	713
315S	MC31S413	110	190	72.1	110	190	72.1	102	176	67	95	164	62.3	1485	6.5	2.30	2.60	8.7	902
315M	MC31M433	132	225	86.5	132	225	86.5	125	213	81.9	115	196	75.4	1486	6.5	2.30	2.60	10.2	1010
315L	MC31L453	160	270	104.8	160	270	104.8	150	253	98.3	138	233	90.4	1487	6.5	2.30	2.60	12.2	1185
315L	MC31L463	180	305	117.9	180	305	117.9	168	285	110.0	158	268	103.5	1487	6.5	2.30	2.60	13.4	1262
315L	MC31L473	200	342	131.0	200	342	131.0	185	316	121.2	180	308	117.9	1487	6.5	2.30	2.60	14.6	1305
355L	MC35L413	250	410	163.6	250	410	163.6	232	380	151.9	220	361	144.0	1488	6.5	2.25	2.60	17.76	1290
355L	MC35L433	315	517	206.2	315	517	206.2	295	484	193.1	280	460	183.3	1488	6.5	2.25	2.60	32.70	1855
355L	MC35L453	355	586	232.8	355	586	232.8	330	545	216.0	310	512	202.9	1488	6.5	2.20	2.50	38.20	2050

Note: 1. Above ratings are suitable for S3, S4 (intermittent) duties and not for S1 (continuous) duty

2. For thermal test of motor;

- motors will be run on S2 - 60 min duty at nameplate rating and temperature rise will be limited to F class.
- motors will be run on S2 - 30 min duty at nameplate rating and temperature rise will be limited to B class.

## Performance table for 6-Pole motors

### TEFC 3 Phase Squirrel Cage Induction Motors Crane & Hoist duty with DOL Starting Fr. 71 to 355L

Voltage : 415V ± 10%  
 Frequency : 50Hz ± 5%  
 Combined Variation : ± 10%

Ambient : 45°C  
 Duty : S3 / S4

Ins. Class : F  
 Temp. Rise : B  
 Protection : IP55

#### 1000 rpm ( 6-Pole )

Frame size IEC	Type Ref. B3 Construction	150 Starts/ hr.						300 Starts/ hr.						Rated Speed RPM	Starting Current to Rated Current Ratio	Pullout Torque to Rated Torque Ratio	Rotor GD <sup>2</sup> kgm <sup>2</sup>	Net Wt. B3 Const. kg
		40% CDF			60% CDF			40% CDF			60% CDF							
		kW	Rated Current Amps.	Rated Torque kg.m	kW	Rated Current Amps.	Rated Torque kg.m	kW	Rated Current Amps.	Rated Torque kg.m	kW	Rated Current Amps.	Rated Torque kg.m					
71	MC071633	0.37	1.43	0.45	0.37	1.43	0.45	0.37	1.43	0.45	0.37	1.43	0.45	3.0	1.70	1.90	0.0038	7
80	MC080613	0.55	2	0.65	0.55	2	0.65	0.55	2	0.65	0.55	2	0.65	3.5	1.90	2.20	0.0060	10
80	MC080633	0.75	2.7	0.85	0.75	2.7	0.85	0.75	2.7	0.85	0.75	2.7	0.85	3.5	2.25	2.50	0.0084	11
90L	MC0916A3	1.1	3	1.2	1.1	3	1.2	1.1	3	1.2	1.1	3	1.2	4.0	2.30	2.60	0.0160	17
90L	MC091653	1.5	4.2	1.6	1.5	4.2	1.6	1.5	4.2	1.6	1.5	4.2	1.6	4.0	2.30	2.75	0.0160	17
100L	MC101653	2.2	6.5	2.3	2.2	6.5	2.3	2.2	6.5	2.3	2.2	6.5	2.3	4.5	2.25	2.75	0.029	27
112M	MC11M653	3.7	9.1	3.9	3.7	9.1	3.9	3.7	9.1	3.9	3.7	9.1	3.9	5.0	2.25	2.75	0.065	33
132S	MC13S6G3	5.5	13.5	5.7	5.5	13.5	5.7	5.5	13.5	5.7	5.5	13.5	5.7	5.5	2.30	2.75	0.130	52
132M	MC13M6T3	7.5	18.8	7.8	7.5	18.8	7.8	7.5	18.8	7.8	7.5	18.8	7.8	5.5	2.30	2.75	0.193	71
160M	MC16M633	9.3	21	9.7	8	18	8	9.3	21	9.7	8	18	8	6.0	2.30	2.75	0.276	103
160L	MC16L663	11	24	11.5	10.2	22.3	10.6	11	24	11.5	10.2	22.3	10.6	6.0	2.30	2.75	0.34	113
160L	MC16L673	13	29	13.5	12	27	12.5	13	29	13.5	12	27	12.5	6.0	2.25	2.75	0.40	123
180L	MC18L633	17	35	17.2	16	33	16.2	16	33	16.2	15	31	15.2	6.0	2.30	2.60	0.82	190
200L	MC20L633	22	42	22.1	20	38	20.1	20	38	20.1	18.5	35.1	18.6	6.0	2.30	2.50	1.20	254
225M	MC22M623	30	55	30.1	28	51	30.1	28	51.3	28.1	26	47.7	26.1	6.0	2.30	2.50	2.10	336
250M	MC25M603	37	66	37.0	34	60	34.0	34	60.2	34.0	30	53.1	30.0	6.0	2.30	2.50	3.51	458
280S	MC28S613	45	82	45.0	40	73	40.0	40	70.2	40.0	37	65.0	37.0	6.0	2.30	2.50	5.11	573
280M	MC28M633	52	93	51.7	48	86	47.7	48	85.5	47.7	45	80	44.7	6.0	2.30	2.50	6.16	620
315S	MC31S613	70	123	69.2	65	114	64.3	65	115	64.3	60	106	59.3	6.0	2.30	2.50	10.7	830
315M	MC31M633	85	151	84.1	80	142	79.1	80	142	79.1	75	133	74.2	6.0	2.30	2.50	12.4	912
315M	MC31M653	102	178	100.6	95	166	93.7	95	166	93.7	90	157	88.7	6.0	2.30	2.50	15.5	1010
315L	MC31L673	125	217	123.2	120	208	118.3	120	208	118.3	110	191	108.4	6.0	2.30	2.50	18.0	1175
315L	MA31L693	150	260	147.9	142	246	140.0	142	246	140.0	132	229	130.1	6.0	2.30	2.50	21.5	1231
355L	MC35L6A3	168	294	165.3	160	280	157.4	160	280	157.4	150	263	147.6	6.0	2.20	2.50	28.7	1670
355L	MC35L6T3	185	326	182.0	175	308	172.2	175	308	172.2	160	282	157.4	6.0	2.20	2.50	28.7	1670
355L	MC35L633	235	414	231.2	225	396	221.4	225	396	221.4	210	370	206.6	6.0	2.20	2.50	35.5	1780
355L	MC35L653	280	493	275.5	265	466	260.7	265	466	260.7	240	422	236.1	6.0	2.20	2.50	43.3	2000

**Note:** 1. Above ratings are suitable for S3, S4 (intermittent) duties and not for S1 (continuous) duty

2. For thermal test of motor;

- motors will be run on S2 - 60 min duty at nameplate rating and temperature rise will be limited to F class.
- motors will be run on S2 - 30 min duty at nameplate rating and temperature rise will be limited to B class.

## Performance table for 8-Pole motors

### TEFC 3 Phase Squirrel Cage Induction Motors Crane & Hoist Duty with DOL Starting Fr. 90S to 355L

Voltage : 415V ± 10%  
 Frequency : 50Hz ± 5%  
 Combined Variation : ± 10%

Ambient : 45°C  
 Duty : S3 / S4

Ins. Class : F  
 Temp. Rise : B  
 Protection : IP55

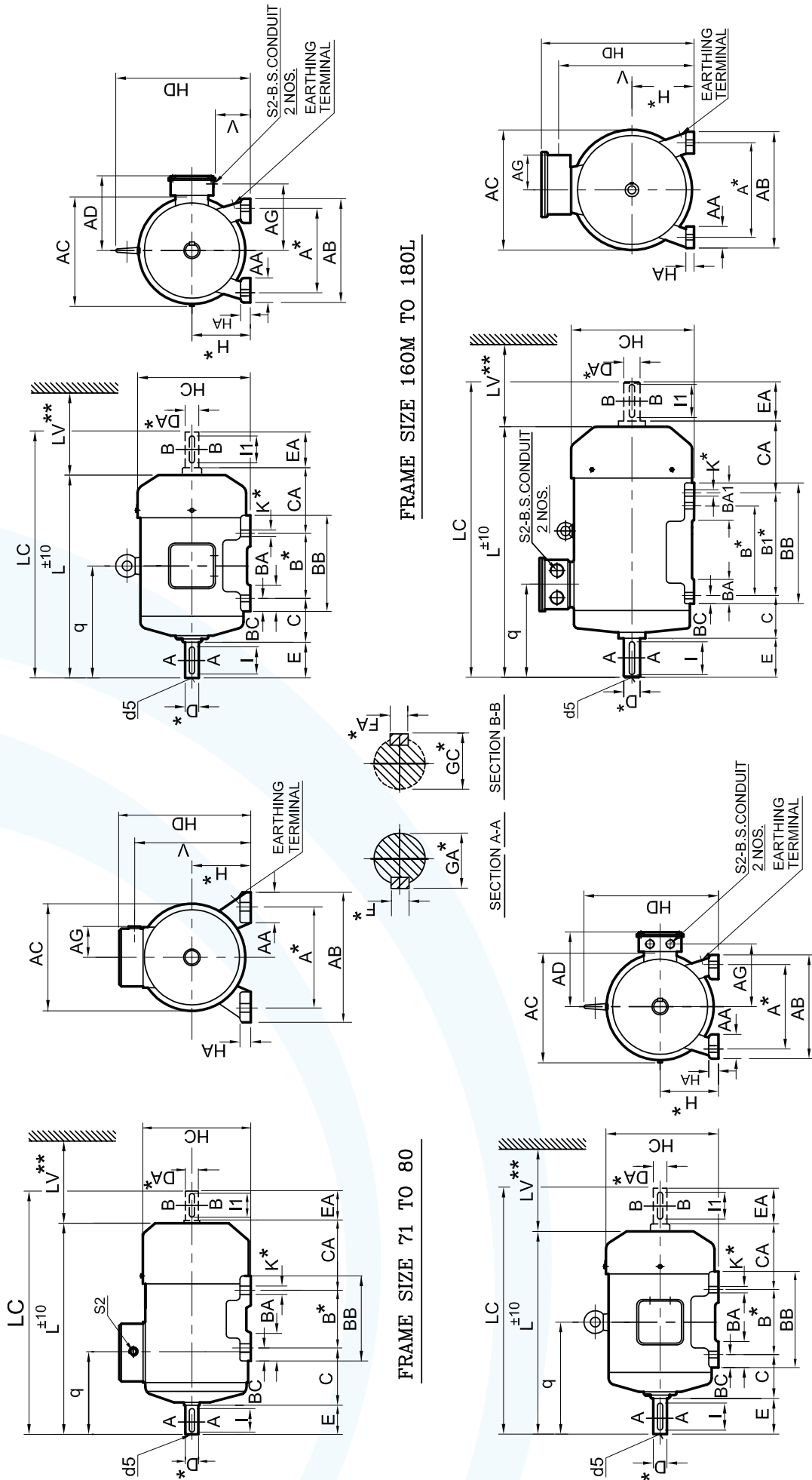
### 750 rpm ( 8-Pole)

Frame size IEC	Type Ref. B3 Construction	150 Starts/hr.						300 Starts/hr.						Rated Speed RPM	With DOL Starting	Pullout Torque to Rated Torque Ratio	Rotor GD <sup>2</sup> kgm <sup>2</sup>	Net Wt. B3 Const. kg	
		40 % CDF			60 % CDF			40 % CDF			60 % CDF								
		kW	Rated Current Amps.	Rated Torque kg.m	kW	Rated Current Amps.	Rated Torque kg.m	kW	Rated Current Amps.	Rated Torque kg.m	kW	Rated Current Amps.	Rated Torque kg.m						Starting Current to Rated Current Ratio
90S	MC09S8A3	0.37	1.43	0.5	0.37	1.43	0.5	0.37	1.43	0.5	0.37	1.43	0.5	700	3.0	2.00	2.30	0.011	13
90S	MC09S8T3	0.55	2.15	0.8	0.45	1.76	0.6	0.55	2.15	0.8	0.45	1.76	0.6	680	3.0	1.80	2.10	0.011	13
90L	MC09L853	0.75	2.76	1.1	0.75	2.76	1.1	0.75	2.76	1.1	0.65	2.39	0.9	680	3.0	2.00	2.40	0.014	14
100L	MC10L813	1.1	3.4	1.6	1.1	3.4	1.6	1.1	3.4	1.6	0.9	2.78	1.3	655	3.5	1.80	2.00	0.023	18
100L	MC10L833	1.5	4.95	2.1	1.5	4.95	2.1	1.5	4.95	2.1	1.1	3.63	1.6	680	3.5	2.00	2.30	0.027	22
112M	MC11M833	2.2	6.8	3.1	2.2	6.8	3.1	2.2	6.8	3.1	1.5	4.64	2.1	700	4.0	2.00	2.30	0.06	32
132S	MC13S863	3.7	8.8	5.1	3.7	8.8	5.1	3.7	8.8	5.1	3	7.14	4.1	710	4.0	2.00	2.30	0.133	69
160M	MC16M833	5.5	12	7.5	5.5	12	7.5	5.5	12	7.5	4.5	9.82	6.2	710	5.0	2.10	2.40	0.299	106
160L	MC16L873	7.5	16	10.3	6.5	13.9	8.9	6.5	13.9	8.9	6	12.8	8.2	710	5.5	2.25	2.50	0.40	119
180M	MC18M813	9.3	20	12.8	8.5	18.5	11.7	8.5	18.5	11.7	7.5	16.5	10.3	710	5.5	2.25	2.50	0.62	177
180L	MC18L833	11	23	15.1	9.3	19.4	12.8	9.3	19.5	12.8	8.5	17.8	11.7	710	5.5	2.25	2.50	0.72	182
200L	MC20L833	15	28.8	20.3	13	25	17.6	13	25.0	17.6	11	21.1	14.9	720	5.5	2.30	2.30	1.32	282
225S	MC22S813	18.5	37.5	25.0	17	34.5	23.0	17	34.5	23.0	15	30.4	20.3	720	5.5	2.25	2.50	1.95	329
225M	MC22M833	22	44.5	29.8	20	40.5	27.1	20	40.5	27.1	18.5	37.4	25.0	720	5.5	2.25	2.50	2.41	369
250M	MC25M813	30	56	40.0	26	48.5	34.7	26	48.5	34.7	22	41.1	29.4	730	5.5	2.30	2.50	3.72	472
280S	MC28S823	37	71	49.4	34	65.2	45.4	34	65.0	45.4	30	57.6	40.0	730	5.5	2.25	2.40	5.83	615
280M	MC28M853	45	86	60.0	40	76.4	53.4	40	76	53.4	37	71	49.4	730	5.5	2.25	2.40	6.86	665
315S	MC31S813	55	108	72.9	50	98.2	66.3	50	98	66.3	45	88	59.6	735	6.0	2.25	2.40	10.7	833
315M	MC31M833	75	148	99.4	67	132	88.8	67	132	88.8	60	118	79.5	735	6.0	2.25	2.40	12.4	912
315M	MC31M853	90	175	119.3	80	156	106.0	80	156	106.0	75	146	99.4	735	6.0	2.25	2.40	15.5	1010
315L	MC31L873	110	214	145.8	100	195	132.5	100	195	132.5	90	175	119.3	735	6.0	2.25	2.40	18.0	1170
315L	MC31L893	132	257	174.9	125	243	165.6	125	244	165.6	115	224	152.4	735	6.0	2.25	2.40	21.5	1340
355L	MC35L813	160	300	210.6	150	281	197.4	150	281	197.4	140	263	184.3	740	6.0	2.00	2.30	28.7	1670
355L	MC35L8B3	180	337	236.9	170	318	223.8	170	318	223.8	155	290	204.0	740	6.0	2.20	2.40	35.5	1780
355L	MC35L833	185	347	243.5	175	328	230.3	175	328	230.3	160	300	210.6	740	6.0	2.00	2.30	35.5	1780
355L	MC35L853	210	394	276.4	200	375	263.2	200	375	263.2	180	338	236.9	740	6.0	2.00	2.30	41.5	1880

Note: 1. Above ratings are suitable for S3, S4 (intermittent) duties and not for S1 (continuous) duty  
 2. For thermal test of motor;

- motors will be run on S2 - 60 min duty at nameplate rating and temperature rise will be limited to F class.
- motors will be run on S2 - 30 min duty at nameplate rating and temperature rise will be limited to B class.

## Dimensional Drawing: Crane and Hoist Duty Motors Type MC Foot Mounted (B3) TEFC series Frame 71-355L



FRAME SIZE 200L TO 225M

\* Refer TABLE A for tolerances

FRAME SIZE 90S TO 132M

FRAME SIZE 250M TO 355L

## Dimensional Drawing: Crane and Hoist Duty Motors Type MC Foot Mounted (B3) TEFC series Frame 71-355L

IEC Fr. size	FIXING										GENERAL										TERMINAL BOX						SHAFT												
	A	*B	*B1	*C	H	*K	*AB	AA	BA	BA1	BC	HA	HC	HD	AD	L	LC	CA	AC	LV	V	q	AG	S2 B.S.C.	*D, DA	E EA	F* GA*	I I1	d5										
71	4 & 6	112	90	—	45	71	135	110	31	30	—	13	7	141	195	—	234	278	83	140	30	166	102	40	3/4"	14	30	5	16	25	M5								
80	4 & 6	125	100	—	50	80	150	124	31	35	—	15	9	159	214	—	267	324	94	157	30	185	112	40	3/4"	19	40	6	21.5	35	M6								
90S	4,6 & 8	140	100	—	56	90	168	125	34	31.5	—	18	12	177	230	—	302	374	118	174	35	199	139	52	3/4"	24	50	8	27	45	M8								
90L	4,6 & 8	125	100	—	56	90	168	150	34	31.5	—	18	12	177	230	—	327	399	118	174	35	199	153	52	3/4"	24	50	8	27	45	M8								
100L	4,6 & 8	160	140	—	63	100	190	174	43.5	36	—	21	12	198	257	—	366	448	125	192	40	225	152	56	1"	28	60	8	31	55	M10								
112M	4,6 & 8	190	140	—	70	112	220	174	47	36	—	21	12	222	282	—	388	471	141	220	45	249	157	56	1"	28	60	8	31	55	M10								
132S	4,6 & 8	140	140	—	89	132	12	256	64	—	—	—	—	—	—	—	459	561	172	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
132M	4,6	178	178	—	89	132	12	256	64	—	—	—	—	—	—	—	497	599	172	260	50	299	63	1"	38	80	10	41	70	M12	—	—	—	—	—	—	—	—	
160M	4,6 & 8	210	210	—	108	160	15	310	58	70	—	23	20	318	366	226	585	721	183	316	60	98	323	186	1"	42	110	12	45	105	M16	—	—	—	—	—	—	—	—
160L	4,6 & 8	254	254	—	108	160	15	310	58	70	—	23	20	318	366	226	629	765	183	316	60	98	345	186	1"	42	110	12	45	105	M16	—	—	—	—	—	—	—	—
180M	4,6 & 8	279	241	—	121	180	15	344	65	70	—	23	26	357	412	265	679	799	217	354	70	83	352	216	1 1/2"	48	110	14	51.5	100	M16	—	—	—	—	—	—	—	—
180L	4,6 & 8	279	279	—	121	180	15	344	65	70	—	23	26	357	412	265	717	838	218	354	70	83	371	216	1 1/2"	48	110	14	51.5	100	M16	—	—	—	—	—	—	—	—
200L	4,6 & 8	318	305	—	133	200	19	398	85	85	—	28	32	397	462	319	772	897	239	394	80	—	396	249	2"	55	110	16	59	100	M20	—	—	—	—	—	—	—	—
225S	4,6 & 8	286	286	—	149	225	19	436	85	85	—	28	34	450	509	344	827	976	257	—	—	—	432.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
225M	4,6 & 8	356	311	—	149	225	19	436	85	85	—	28	34	450	509	344	857	991	257	450	90	—	273	2"	60	140	18	64	130	M20	—	—	—	—	—	—	—	—	
250M	4,6 & 8	406	349	—	168	250	24	506	100	115	—	49	42	495	665	—	914	1065	268	489	100	578	352	243	2"	65	140	18	69	130	M20	—	—	—	—	—	—	—	—
280S/M	4,6 & 8	457	368	419	190	280	24	540	100	110	149	40	42	552	725	—	1010	1160	271	544	115	638	360	243	2"	75	140	20	79.5	130	M20	—	—	—	—	—	—	—	—
315S/M	4,6 & 8	406	457	—	216	315	28	625	540	120	155	46	—	—	—	—	1167	1353	240	600	130	728	416	278	2"	80	170	22	85	160	—	—	—	—	—	—	—	—	
315L	4,6 & 8	508	508	—	216	315	28	625	593	120	120	—	46	—	—	—	1332	1518	454	600	130	728	416	278	2 1/2"	80	170	22	85	160	—	—	—	—	—	—	—	—	
355L	4,6 & 8	610	630	—	254	355	28	710	110	170	—	73	45	693	939	—	1491	1682	458	685	145	850	464	403	3"	95	170	25	100	160	M24	—	—	—	—	—	—	—	—

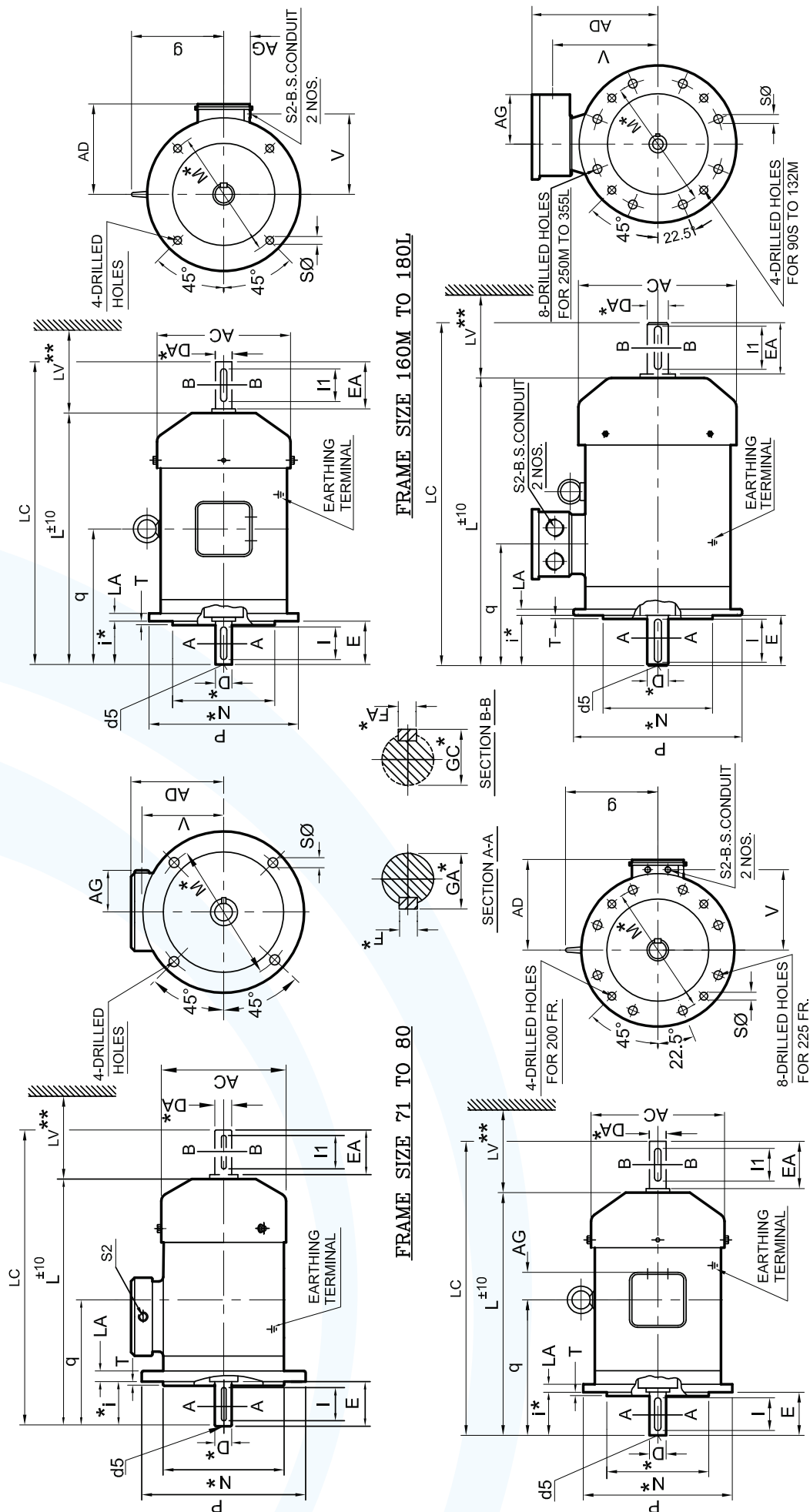
**TABLE A**

Dimension	Tolerance	Specification	Dimension	Tolerance	Specification
A,B	±0.75		g6	11,14,19,24,28Ø	
H	-0.5	UPTO 280	k6	38,42,48Ø	IS : 1231
	-1	OVER 280	m6	55,60,65,75,80,95Ø	
K	+0.360	7,10Ø	GA,GC,FFA		IS : 2048
	+0.430	12,15Ø	ds(centring)		IS : 2540
	+0.520	19,24,28Ø			

- ① Without Eye bolt
- Key / key way fit : h9 / N9
- Double shaft extension can be provided with shaft dimension identical to DE shaft.
- Also suitable for B6,B7,B8,V5 & V6 mounting as per IS 2253.
- \*\* Minimum distance for efficient cooling of motor to be maintained by user

All Dimensions are in mm unless otherwise specified.

## Dimensional Drawing: Crane and Hoist Duty Motors Type MC Flange Mounted (B5) TEFC series Frame 71-355L



\* Refer TABLE A for tolerances

FRAME SIZE 90S TO 132M  
FRAME SIZE 250M TO 355L

CAT-C-7135-5-1

## Dimensional Drawing: Crane and Hoist Duty Motors Type MC Flange Mounted (B5) TEFC series Frame 71-355L

IEC Fr. size	Pole	FIXING				GENERAL						TERMINAL BOX				SHAFT							
		N	M	i	S	T	LA	AD	AC	L	LC	LV	**	g	V	q	AG	S2	**	D,DA	E	F*	GA*
71	4 & 6	110	130	30	10	3.5	9	124	140	261	305	30	—	95	127	40	3/4"	14	30	5	16	25	M5
80	4 & 6	130	165	40	12	3.5	10	134	157	267	324	30	—	105	112	40	3/4"	19	40	6	21.5	35	M6
90S	4,6 & 8	130	165	50	12	3.5	10	140	174	302	374	35	①	109	139	52	3/4"	24	50	8	27	45	M8
90L	4,6 & 8	130	165	50	12	3.5	10	140	174	327	399	35	—	153	153	52	3/4"	24	50	8	27	45	M8
100L	4,6 & 8	180	215	60	15	4	11	157	195	366	448	40	—	125	152	56	1"	28	60	8	31	55	M10
112M	4,6 & 8	180	215	60	15	4	11	170	220	388	471	45	—	137	157	56	1"	28	60	8	31	55	M10
132S	4,6 & 8	230	265	80	15	4	12	206	260	459	561	50	—	167	196	63	1"	38	80	10	41	70	M12
132M	4,6	230	265	80	15	4	12	206	260	497	599	50	—	215	215	63	1"	38	80	10	41	70	M12
160M	4,6 & 8	250	300	110	19	5	13	226	316	585	721	60	—	186	323	63	1"	42	110	12	45	105	M16
160L	4,6 & 8	250	300	110	19	5	13	226	316	629	765	60	—	345	345	63	1"	42	110	12	45	105	M16
180M	4,6 & 8	350	300	110	19	5	13	265	354	679	799	70	—	216	352	97	1 1/2"	48	110	14	51.5	100	M16
180L	4,6 & 8	350	300	110	19	5	13	265	354	717	838	70	—	371	371	97	1 1/2"	48	110	14	51.5	100	M16
200L	4,6 & 8	400	350	110	19	5	15	319	394	772	897	80	—	249	432.5	172	2"	55	110	16	59	100	M20
225S	4,6 & 8	450	400	140	19	5	16	344	450	827	976	90	—	273	445	172	2"	60	140	18	64	130	M20
225M	4,6 & 8	450	400	140	19	5	16	344	450	857	991	90	—	445	445	172	2"	60	140	18	64	130	M20
250M	4,6 & 8	550	500	140	19	5	18	415	489	914	1065	100	—	328	352	243	2"	65	140	18	69	130	M20
280S/M	4,6 & 8	550	500	140	19	5	18	445	544	1010	1160	115	—	358	360	243	2"	75	140	20	79.5	130	M20
315S/M	4,6 & 8	660	600	170	24	6	22	515	600	1167	1353	130	—	413	416	278	2"	80	170	22	85	160	M20
315L	4,6 & 8	660	600	170	24	6	22	515	600	1332	1518	130	—	416	416	278	2 1/2"	80	170	22	85	160	M20
355L	4,6 & 8	800	740	170	24	6	25	584	685	1491	1682	145	—	495	464	403	3"	95	170	25	100	160	M24

TABLE A

Dimension	Tolerance	Specification
N	j6 UPTO 450 js6 OVER 450	IS : 2223
M	±0.3 UPTO 265 ±0.5 OVER 265	IS : 2223
i	±1 UPTO 85 ±1.5 OVER 85	IS : 2048 IS : 2540

Dimension	Tolerance	Specification
D, DA	j6 11, 14, 19, 24, 28Ø k6 38, 42, 48Ø m6 55, 60, 65, 75, 80, 95Ø	IS : 1231
GA, GC, F, FA		IS : 2048
d5 (centering)		IS : 2540

① Without Eye bolt

□ Key / key way fit : h9 / N9

□ 8 Nos. Fixing Holes from 225S/M frame onwards

□ Double shaft extension can be provided with shaft dimension identical to D.E. shaft

□ Also suitable for V1 & V3 mounting as per IS 2253

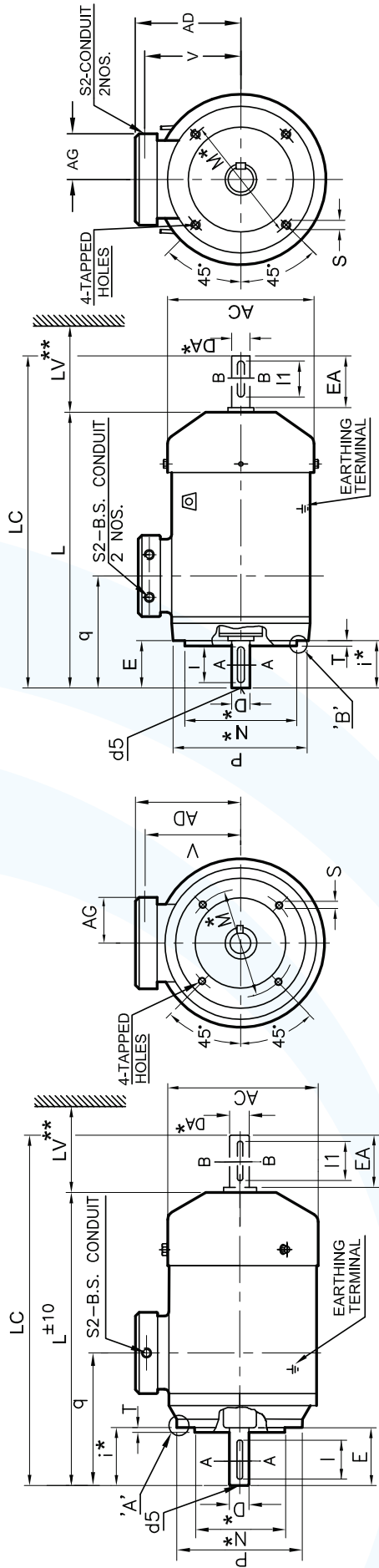
\*\* Minimum distance for efficient cooling of motor to be maintained by user

All Dimensions are in mm unless otherwise specified.

CAT-C-7135-5-2

Note: For B3/B5 mounting motor in frame 71 refer to Sales office

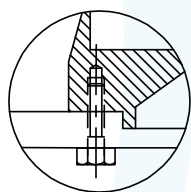
## Dimensional Details: Crane and Hoist Duty Motors Type MC Face Mounted (B14) TEFC series Frame 71-132M



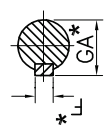
FRAME SIZE 71 TO 80

FRAME SIZE 90S TO 132M

IEC Fr. size	Pole	FIXING			GENERAL				TERMINAL BOX			SHAFT											
		N	M	i	S	T	AD	AC	L	LC	LV	**	g	v	q	AG	B.S.C.	S2	D*	E	F*	GA*	I
71	4 & 6	105	70	85	30	M6X10	2.5	124	140	234	278	30	—	95	102	40	3/4"	14	30	5	16	25	M5
80	4 & 6	120	80	100	40	M6X13	3	134	157	267	324	30	—	105	112	40	3/4"	19	40	6	21.5	35	M6
90S	4,6 & 8	140	95	115	50	M8X12	3	140	174	302	374	35	①	109	139	52	3/4"	24	50	8	27	45	M8
90L	4,6 & 8	160	110	130	60	M8X12	3.5	157	195	366	448	40	—	125	152	56	1"	28	60	8	31	55	M10
100L	4,6 & 8	160	110	130	60	M8X12	3.5	170	220	388	471	45	—	137	157	56	1"	28	60	8	31	55	M10
112M	4,6 & 8	160	110	130	60	M8X12	3.5	170	220	388	471	45	—	137	157	56	1"	28	60	8	31	55	M10
132S	4,6 & 8	250	180	215	80	M12X20	4	206	260	459	561	50	—	167	196	63	1"	38	80	10	41	70	M12
132M	4 & 6	250	180	215	80	M12X20	4	206	260	497	599	50	—	167	196	63	1"	38	80	10	41	70	M12



ENLARGEMENT OF CIRCLE 'A'



ENLARGEMENT OF CIRCLE 'B'

SECTION A-A

SECTION B-B

TABLE A

Dimension	Tolerance	Specification	Dimension	Tolerance	Specification
N	j6	IS : 2223	D, DA	j6	11, 14, 19, 24, 28Ø
M	±0.3	IS : 2223	k6	k6	38Ø
i	±1	IS : 2048	GA, GC, FA		IS : 2048
		IS : 2540	d5 (centering)		IS : 2540

\*Refer TABLE A for tolerances

- ① Without Eye bolt
  - Also suitable for V19 & V18 mounting as per IS 2253
  - Key / key way fit : h9 / N9
  - Double shaft extension can be provided with shaft dimension identical to D.E. shaft
  - \*\* Minimum distance for efficient cooling of motor to be maintained by user
- All Dimensions are in mm unless otherwise specified.