

Kailashpati Enterprises

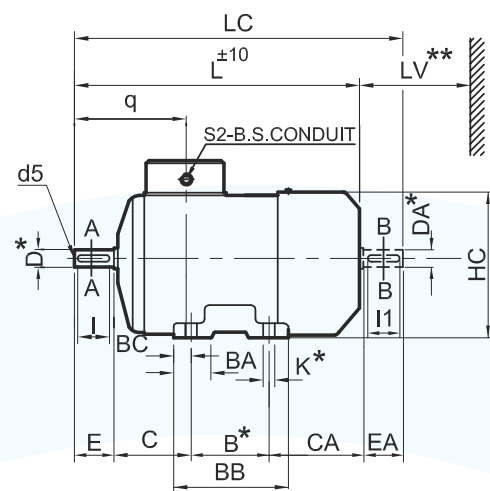
Your one stop shop for all industrial electrical & mechanical supplies

PRODUCT RANGE

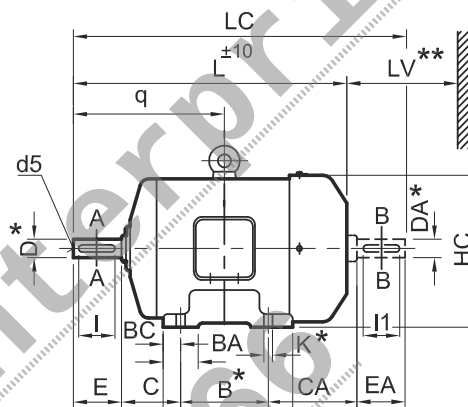
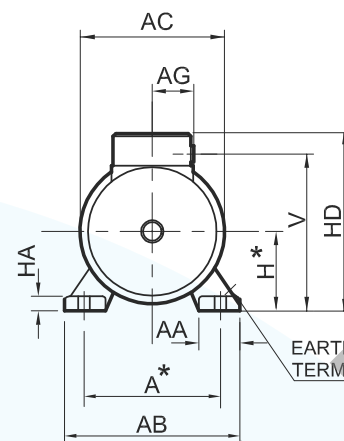
Bharat Bijlee manufactures a complete range of three phase squirrel cage induction motors.

Motor Type	Frame	Power (kW)	Polarity	
Standard Motors	63 to 355	0.18 to 315	2, 4, 6, 8	
IE2 Motors	71 to 355	0.37 to 375	2,4,6	
IE3 Motors	80 to 355	0.75 to 315	2,4,6	
IE4 Motors	112 to 180	1.50 to 22	4	
Large LT Motors(DCCA)	355 to 450	280 to 1250	2, 4, 6, 8	
Standard Flame Proof Motors	80 to 315	0.37 to 200	2, 4, 6, 8	
IE2 Flame Proof Motors	80 to 315	0.37 to 200	2, 4, 6	
IE3 Flame Proof Motors	80 to 315	0.75 to 180	2, 4, 6	
Non - Sparking Motors	63 to 400	0.12 to 560	2, 4, 6, 8	
Increased Safety Motors	63 to 355	0.12 to 400	2, 4, 6, 8	
Crane & Hoist Duty Motors	71 to 355	0.37 to 400	4, 6, 8	
Brake Motors	71 to 132	0.25 to 9.3	2, 4, 6, 8	
Slip ring Motors	100 to 160	1.10 to 10	4,6	
Textile Motors - Ring Frame	100 to 160	1.1 to 15	4	
Cane Unloader Motors	160 to 225	11 to 30	6	
Marine Duty Motors	63 to 450	----	----	
Roller Table Motors	As per requirement	----	----	
Railway Auxilliary Motors	As per requirement	----	----	
Medium Voltage Motors	355 to 450	160 to 1000	2,4,6,8	

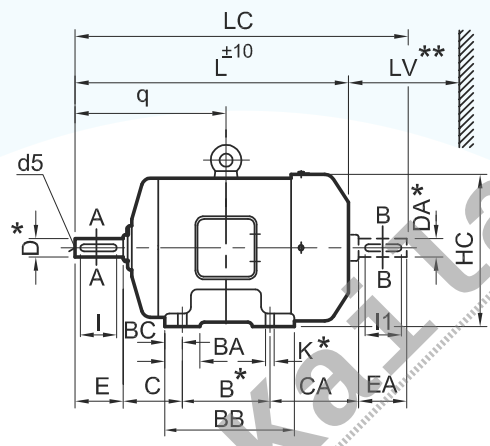
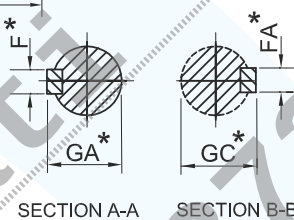
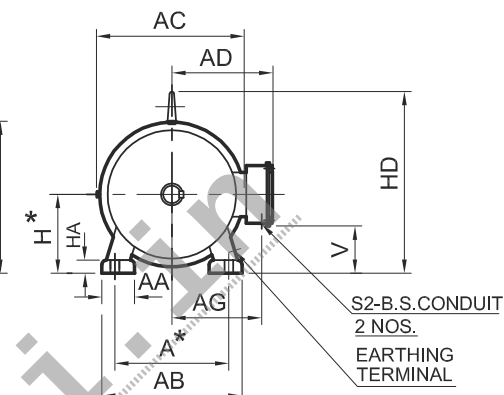
Dimensional Drawing: Industrial Motors Type 2H Foot Mounted (B3) TEFC IE2 series Frame 63-355L



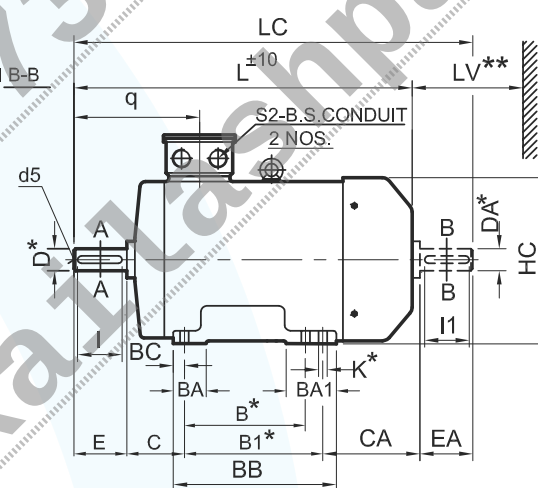
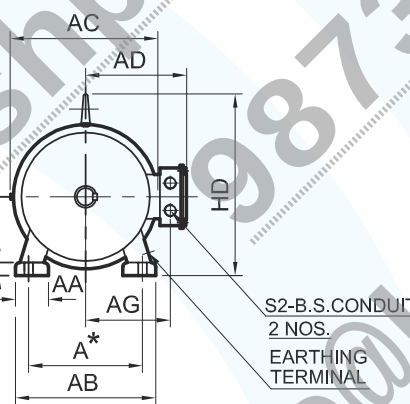
FRAME SIZE 63 TO 80



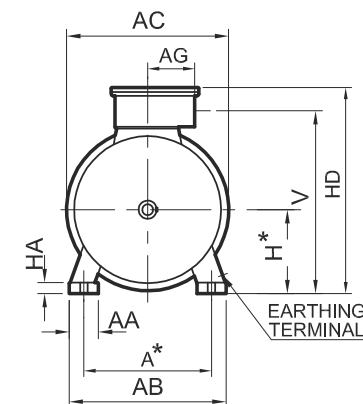
FRAME SIZE 160M TO 180L



FRAME SIZE 200L TO 225M



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



* Refer TABLE A for tolerances

Note : For Dual Mounting Arrangement (180M/L - 355M/L), please refer to Annexure XII



IE2 SERIES TEFC SCR MOTORS - TYPE 2H

Dimensional Details: Industrial Motors Type 2H Foot Mounted (B3) TEFC (IE2) series Frame 63-355L

			FIXING				GENERAL														TERMINAL BOX				SHAFT						TABLE B									
IEC Fr. size	Pole	A*	B*	B1*	C	H*	K*	AB	BB	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* FA	GA* GC*	I l1	d5	Pole	L	LC	CA				
63	2 & 4	100	80	—	40	63	7	126	100	28	30	—	13	7	125	179	—	206	241	75	124	30	149	104	40	3/4"	11	23	4	12.5	18	M4	—	—	—	—				
71	2,4 & 6	112	90	—	45	71	7	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	2,4 & 6	125	100	—	50	80	10	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	6 & 8	140	100	—	56	90	10	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	2 & 4	336	408	152				
90L	6 & 8		125						327									399	2 & 4					361									433	152						
100L	6 & 8	160	140	—	63	100	12	190	174	43.5	36	—	21	12	198	257	-	366	448	125	192	40	225	152	56	1"	28	60	8	31	55	M10	2 & 4	387	469	146				
112M	6 & 8	190	140	—	70	112	12	220	174	47	36	—	21	12	222	282	-	388	471	141	220	45	249	157	56	1"	28	60	8	31	55	M10	4	419	502	172				
132S	6 & 8	216	140	—	89	132	12	256	180	64	50	—	23	17	262	338	-	459	552	172	260	50	299	196	63	1"	38	80	10	41	70	M12	2 & 4	518	617	228				
132M	6		178						497									590	172	215				4									556	659	232					
160M	2 & 4	254	210	—	108	160	15	310	250	58	70	—	23	20	318	366	226	605	741	203	316	60	98	323	186	1"	42	110	12	45	105	M16	2 & 4	635	771	233				
160L	6 & 8		254						585									721	183	345				4									698	802	220					
180M	2,6 & 8		279						241									—	121	180				15									344	281	65	70	—	23	26	357
180L	6 & 8	279	241	—	121	180	15	344	281	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	4	737	841	221				
200L	2	318	305	—	133	200	19	398	355	85	85	—	28	32	397	462	319	795	920	262	394	80	—	396	249	2"	55	110	16	59	100	M20	—	—	—	—				
225S	6 & 8		286						772									897	239	4													795	920	262					
225M	4	356	311	—	149	225	19	436	336	85	85	—	28	34	450	509	344	852	1001	281	450	90	—	432.5	273	2"	60	140	18	64	130	M20	—	—	—	—				
225M	2		311						837									956	276	415				55									110	16	59	100	4	795	920	262
250M	6 & 8		311						852									1001	231	445				60									140	18	64	130	4	795	920	262
250M	2	406	349	—	168	250	24	506	425	100	115	—	49	42	495	665	—	993	1134	337	489	100	578	352	243	2"	60	140	18	64	130	M20	—	—	—	—				
280S/M	4,6 & 8		349						914									1065	268	65				140									18	69	130	65	140	18	69	130
280S/M	2	457	368	419	190	280	24	540	490	100	110	149	40	42	552	725	—	1010	1160	271	544	115	638	360	243	2"	65	140	18	69	130	M20	—	—	—	—				
315S/M	4,6 & 8		368						914									1065	268	65				140									18	69	130	75	140	20	79.5	130
315S/M	2	508	406	457	216	315	28	625	540	120	120	155	46	45	600	830	—	1137	1293	340	600	130	728	386	278	2"	65	140	18	69	130	M20	—	—	—	—				
315L	4,6 & 8		406						1167									1353	416	80				170									22	85	160	80	170	22	85	160
355L	2	610	630	—	254	355	28	710	770	110	170	—	73	45	693	939	—	1461	1622	458	685	145	850	434	403	3"	75	140	20	79.5	130	M20	—	—	—	—				
355L	4,6 & 8		630						1491									1682	458	685				145									850	434	403	3"	75	140	20	79.5

TABLE A

Dimension	Tolerance	Specification	Dimension	Tolerance	Specification
A,B	±0.75	IS : 1231	D,DA	j6 11,14,19,24,28Ø	IS : 1231
H	-0.5 UPTO 280			k6 38,42,48Ø	
	-1 OVER 280			m6 55,60,65,75,80,95Ø	
K	+0.360 7,10Ø		GA,GC,F,FA		IS : 2048
	+0.430 12,15Ø		d5(centering)		IS : 2540
	+0.520 19,24,28Ø				

*Refer TABLE A for tolerances

Special Remarks

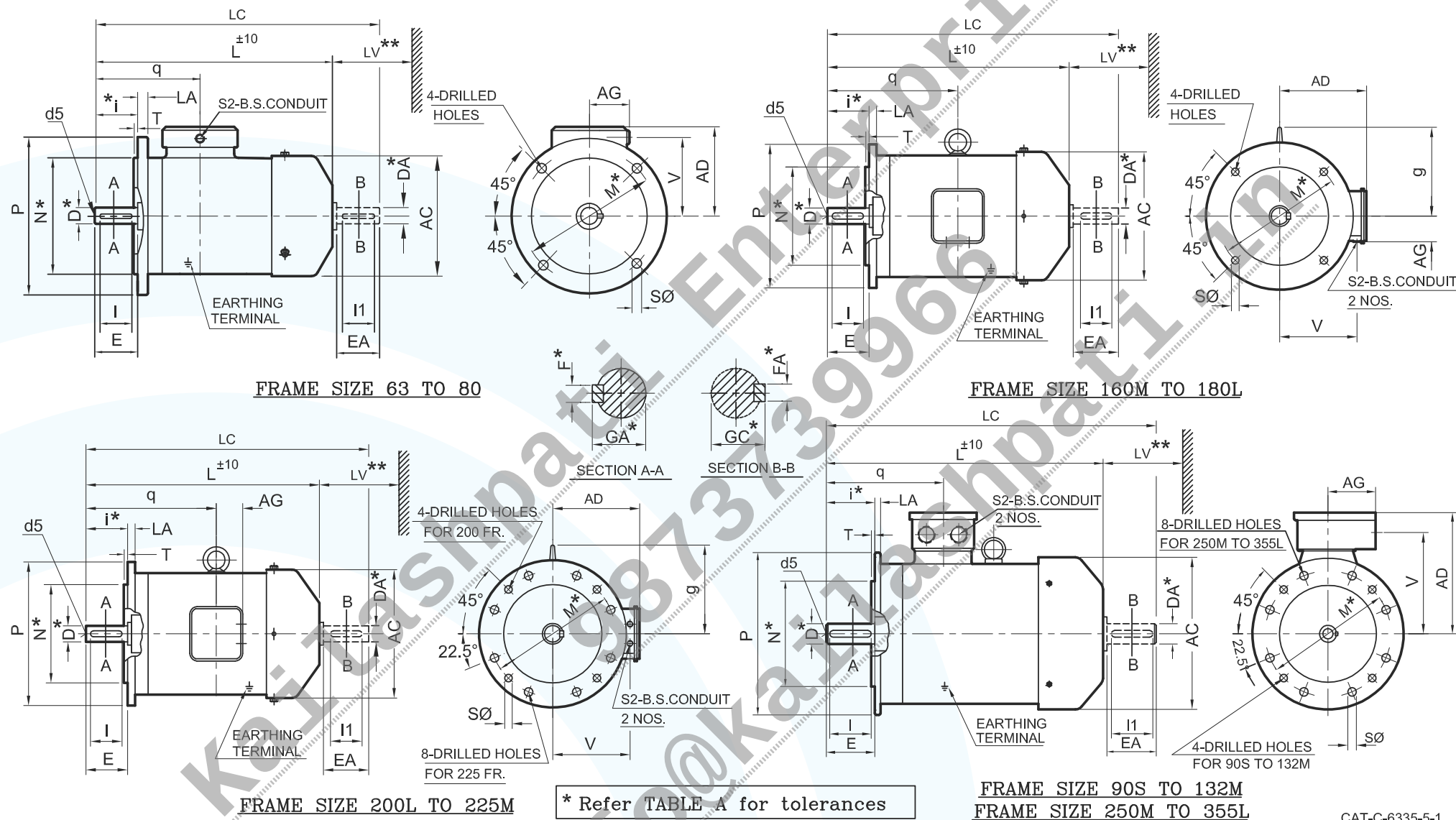
15kW/2P & 11kW/4P in 160M will have dimensions "L", "LC" & "CA" as Indicated in table "B"

- Double shaft extension can be provided with shaft dimension identical to DE shaft. ① Without Eye bolt
- Also suitable for B6,B7,B8,V5 & V6 mounting as per IS 2253. □ Key / key way fit : h9 / N9
- ** Minimum distance for efficient cooling of motor to be maintained by user
- Note: For non-standard motors, these dimensions may change. Please contact sales office for details.**

All Dimensions are in mm unless otherwise specified.

CAT-A-6335-3-2

Dimensional Drawing: Industrial Motors Type 2H Flange Mounted (B5) TEFC (IE2) series Frame 63-355L





IE2 SERIES TEFC SCR MOTORS - TYPE 2H

Dimensional Details: Industrial Motors Type 2H Flange Mounted (B5) TEFC (IE2) series Frame 63-355L

		FIXING					GENERAL							TERMINAL BOX					SHAFT						TABLE B		
IEC Fr. size	Pole	P	N [*]	M [*]	i [*]	S	T	LA	AD	AC	L	LC	LV ^{**}	g	V	q	AG	S2 B.S.C.	D, DA [*]	E EA	F [*] FA [*]	GA [*] GC [*]	I I1	d5	Pole	L	LC
63	2 & 4	140	95	115	23	10	3	9	116	124	225	260	30	—	86	109	40	3/4"	11	23	4	12.5	18	M4	—	—	—
71	2,4 & 6	160	110	130	30	10	3.5	9	124	140	261	305	30	—	95	127	40	3/4"	14	30	5	16	25	M5	—	—	—
80	2,4 & 6	200	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	6 & 8	200	130	165	50	12	3.5	10	140	174	302	374	35	①	109	139	52	3/4"	24	50	8	27	45	M8	2 & 4	336	408
90L	6 & 8										327	399				153									2 & 4	361	433
100L	6 & 8	250	180	215	60	15	4	11	157	195	366	448	40	—	125	152	56	1"	28	60	8	31	55	M10	2 & 4	387	469
112M	6 & 8	250	180	215	60	15	4	11	170	220	388	471	45	—	137	157	56	1"	28	60	8	31	55	M10	4	419	502
132S	6 & 8	300	230	265	80	15	4	12	206	260	459	552	50	—	167	196	63	1"	38	80	10	41	70	M12	2 & 4	518	617
132M	6										497	590													4	556	659
160M	2 & 4	350	250	300	110	19	5	13	226	316	605	741	60	206	186	323	63	1"	42	110	12	45	105	M16	—	—	—
	6 & 8										585	721													2 & 4	635	771
160L	6 & 8										629	765													—	—	—
180M	2,6 & 8	350	250	300	110	19	5	13	265	354	679	799	70	232	216	352	97	1 1/2"	48	110	14	51.5	100	M16	2 & 4	679	815
180L	6 & 8										717	838				371									4	698	802
200L	2	400	300	350	110	19	5	15	319	394	795	920	80	262	249	396	172	2"	55	110	16	59	100	M20	4	737	841
	6 & 8										772	897													—	—	—
225S	4	450	350	400	140	19	5	16	344	450	852	1001	90	284	273	432.5	172	2"	55	110	16	59	100	M20	—	—	—
225M	2				110						837	956													—	—	—
	6 & 8				140						852	1001													4	877	1026
250M	2	550	450	500	140	19	5	18	415	489	993	1134	100	—	328	352	243	2"	60	140	18	64	130	M20	—	—	—
	4,6 & 8										914	1065													—	—	—
280S/M	2	550	450	500	140	19	5	18	445	544	1010	1160	115	—	358	360	243	2"	65	140	18	69	130	M20	—	—	—
	4,6 & 8																								—	—	—
315S/M	2	660	550	600	140	24	6	22	515	600	1137	1293	130	—	413	386	278	2"	65	140	18	69	130	M20	—	—	—
	4,6 & 8				170						1167	1353													—	—	—
315L	2				140						1302	1458													—	—	—
	4,6 & 8				170						1332	1518													—	—	—
355L	2	800	680	740	140	24	6	25	584	690	1461	1622	145	—	495	434	403	3"	75	140	20	79.5	130	M20	—	—	—
	4,6 & 8				170						1491	1682													—	—	—

TABLE A

Dimension	Tolerance	Specification
N	j6	UPTO 450
	js6	OVER 450
M	±0.3	UPTO 265
	±0.5	OVER 265
i	±1	UPTO 85
	±1.5	OVER 85

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

*Refer TABLE A for tolerances

① Without Eye bolt

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

Note: For B3/B5 mounting motor in frame 63 & 71 refer to Sales office

Special Remarks

15kW/2P & 11kW/4P in 160M will have dimensions "L" & "LC" as Indicated in table "B"

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

□ Key / key way fit : h9 / N9

All Dimensions are in mm unless otherwise specified.

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

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

CAT-A-6335-5-2

Note: For non-standard motors, these dimensions may change. Please contact sales office for details.

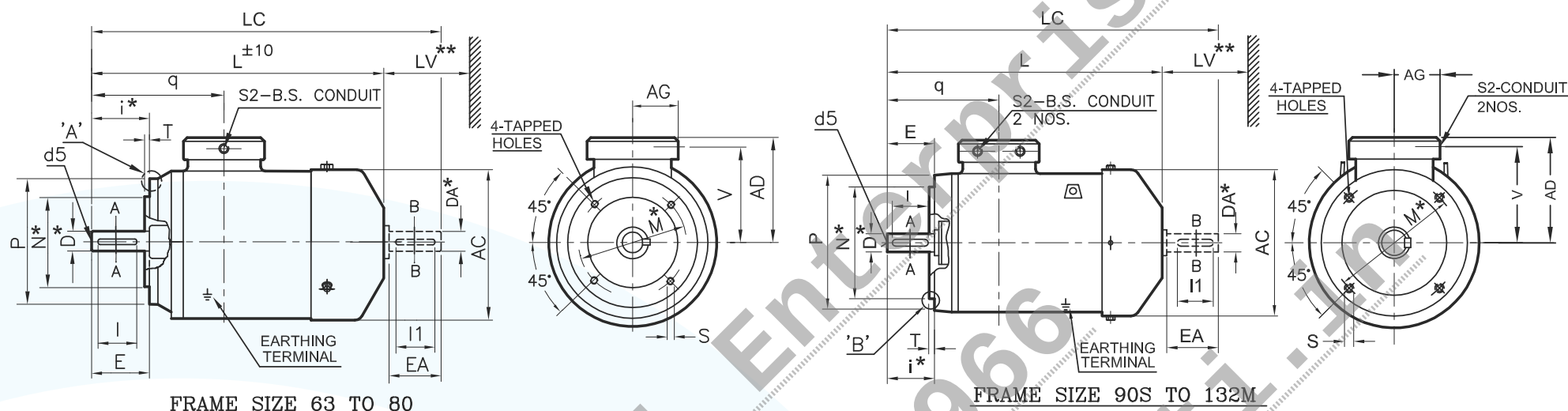


IE2 SERIES TEFC SCR MOTORS - TYPE 2H

TYPE 2H

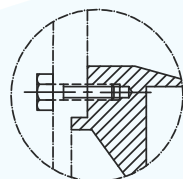
32

Dimensional Details: Industrial Motors Type 2H Face Mounted (B14) TEFC (IE2) series Frame 63-132M

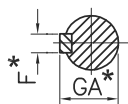


FRAME SIZE 63 TO 80

FRAME SIZE 90S TO 132M



ENLARGEMENT
OF CIRCLE 'A'



SECTION A-A

		FIXING					GENERAL							TERMINAL BOX					SHAFT						
IEC Fr. size	Pole	P	N*	M*	i*	S	T	AD	AC	L	LC	LV**	g	V	q	AG	S2 B.S.C.	D* DA	E EA	F* FA	GA* GC	I I1	d5		
63	2 & 4	90	60	75	23	M5X10	2.5	116	124	206	241	30	—	86	104	40	3/4"	11	23	4	12.5	18	M4		
71	2,4 & 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	2,4 & 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	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	6 & 8									327	399				153										
100L	6 & 8	160	110	130	60	M8X12	3.5	157	195	366	448	40	-	125	152	56	1"	28	60	8	31	55	M10		
112M	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	6 & 8	250	180	215	80	M12X20	4	206	260	459	552	50	-	167	196	63	1"	38	80	10	41	70	M12		
132M	6									497	590				215										

TABLE A

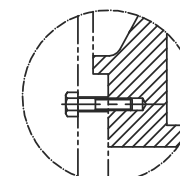
Dimension	Tolerance	Specification
N	j6	IS : 2223
M	±0.3	
i	±1	

Dimension	Tolerance		Specification
D, DA	j6	11, 14, 19, 24, 28	IS : 1231
	k6	38	
GA, GC, F, FA			IS : 2048
d5 (centering)			IS : 2540

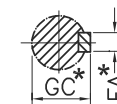
*Refer TABLE A for tolerances

Note: For non-standard motors, these dimensions may change. Please contact sales office for details.

TABLE B		
Pole	L	LC
—	—	—
—	—	—
—	—	—
2 & 4	336	408
2 & 4	361	433
2 & 4	387	469
4	419	502
2&4	518	617
—	—	—
4	556	659



ENLARGEMENT
OF CIRCLE 'B'



SECTION B-B

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.

CAT-C-6313-4-1