

# ماديكو MADICO



From 0.75 up to 855 HP



Member of AHMED DAUD GROUP



## General Introduction

The Series ADM motors (Frame Size 80-400L.0.55-630KW) are totally enclosed fan cooled (TEFC) three-phase squirrel cage induction motors. This series is an entirely refreshed generation product aimed to replace the old series. It is up to the international standard in the third millennium.

Besides those of old series, the series ADM motors are characterized by such an outstanding features as:

- Protection degree: IP55 (IP56 on request)
- Insulation Class F
- Test Class B
- Low Noise (Tested at load)
- Better Structure Cooling Method (IC411)
- The Rated Output and The Mounting Dimensions are Conformed to the Standards IEC and DIN 42673
- The Motors Body and End Shield are Made from Cast Iron
- Heavy Duty S1 (Continuous Operation 24H/day)
- The Motors are provided with Thermistors (PTC) in the Windings from Frame Size: 180

Series ADM are general-purpose motors suitable for driving various kinds of machines or equipment. Series ADM are rated at

- 380V, 50Hz (500V, 60Hz on request).
- Y-Connection for motors up to 7.5KW
- $\Delta$  -Connection for 11 KW and upwards
- Ambient temperature 45°C (50°C or more on request)
- R.H. 80%
- SKF Bearing

For series ADM motors, there is usually one shaft extension and terminal box on top of the frame.

Motors for special voltages, frequencies, for outdoor or humid tropic services or any other particular services are available on request.

Options (on request) such as:

- PT 100 on the bearings
- PTC in the windings for the motors with frame size 160 and smaller
- Anti-Condensation heater
- With 2 Shaft Ends (2nd shaft extension)
- Humidity 90% & 95% are also available



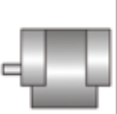

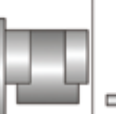
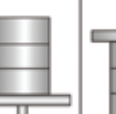
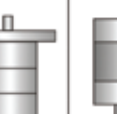
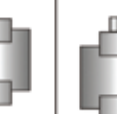

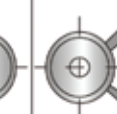
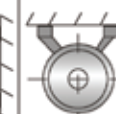
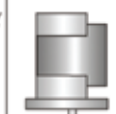


## General Information

The Relation Between frame numbers and rated output and speed for series ADM motors is as shown in table 1:

Frame size.	Synchronous Speed ( r/min )			
	3000	1500	1000	750
	Rated Output ( kw )			
80M1	0.75	0.55	0.37	0.18
80M2	1.1	0.75	0.55	0.25
90S	1.5	1.1	0.75	0.37
90L	2.2	1.5	1.1	0.55
100L1	3	2.2	1.5	0.75
100L2	3	3	1.5	1.1
112M	4	4	2.2	1.5
132S1	5.5	5.5	3	2.2
132S2	7.5	5.5	3	2.2
132M1	—	7.5	4	3
132M2	—	7.5	5.5	3
160M1	11	11	7.5	4
160M2	15	11	7.5	5.5
160L	18.5	15	11	7.5
180M	22	18.5	—	—
180L	—	22	15	11
200L1	30	30	18.5	15
200L2	37	30	22	15
225S	—	37	—	18.5
225M	45	45	30	22
250M	55	55	37	30
280S	75	75	45	37
280M	90	90	55	45
315S	110	110	75	55
315M	132	132	90	75
315L1	160	160	110	90
315L2	200	200	132	110
355M	250	250	160	132
355M2	250	250	200	160
355L	315	315	250	200
355LA	—	355	—	—
400M1	—	400	315	—
400M2	—	450	355	—
400L1	—	500	400	—
400L2	—	560	—	—
400L3	—	630	—	—

# General Information

The Commonly used mounting arrangements and corresponding frame numbers are shown in table 2:

Basic			Variations								
B3	B5	B35	Based on B5		Based on B3					Based on B35	
			V1	V3	V5	V6	B6	B7	B8	V15	V36
											
80-400	80-280	80-400	80-400	80-250	80-160	80-160	80-160	80-160	80-160	80-400	80-250

Mounting Arrangements:

There are three basic constructional mounting arrangements for series ADM motors:

B3: Frame with feet, end bracket without flange.

B5: Frame without feet, end bracket with flange. (With Holes)

B35: Frame with feet, end bracket with flange. (With Holes)

\*Vertical Mounting V1 & V3 are available upon request

## Bearings

Deep Groove Ball Bearing NO. and Type For Both Driving End And Non-Driving End As Shown In Table 3:

Frame Size.	Driving end		Non Driving end	
	2 Poles	4,6,8 Poles	2 Poles	4,6,8 Poles
80		6204-C3 ZZ		6204-C3 ZZ
90		6205-C3 ZZ		6205-C3 ZZ
100		6206-C3 ZZ		6206-C3 ZZ
112		6306-C3 ZZ		6306-C3 ZZ
132		6308-C3 ZZ		6308-C3 ZZ
160		6309-C3 ZZ		6309-C3 ZZ
180		6311-C3		6311-C3
200		6312-C3		6312-C3
225	6312-C3	6313-C3		6312-C3
250	6313-C3	6314-C3		6313-C3
280	6314-C3	6317-C3		6314-C3
315	6317-C3	NU319	6317-C3	6319-C3
355	6319-C3	NU322	6319-C3	6322-C3
400	—	NU326	—	6326-C3



## Technical Information

Type	Rated Output		Full Load				Ist/In Locked Current	Tst/Tn Locked Torque	Tm/Tn Max Torque	Net Weight (B3) Kg
	KW	HP	Speed r/min	Current A	Eff %	Power Factor COSØ	Rated Current	Rated Torque	Rated Torque	
380 V 50Hz Synchronous Speed 3000 r/min (2 poles)										
ADM - 80M1-2	0.75	1	2830	1.13	75	0.83	6.1	2.2	2.3	16
ADM - 80M2-2	1.1	1.5	2830	2.58	77	0.84	7	2.2	2.3	17
ADM - 90S-2	1.5	2	2840	3.43	79	0.84	7	2.2	2.3	22
ADM - 90L-2	2.2	3	2840	4.85	81	0.85	7	2.2	2.3	25
ADM - 100L-2	3	4	2870	6.31	83	0.87	7.5	2.2	2.3	33
ADM - 112M-2	4	5.5	2890	8.1	85	0.88	7.5	2.2	2.3	45
ADM - 132S1-2	5.5	7.5	2900	11	86	0.88	7.5	2.2	2.3	64
ADM - 132S2-2	7.5	10	2900	14.9	87	0.88	7.5	2.2	2.3	70
ADM - 160M1-2	11	15	2930	21.3	88	0.89	7.5	2.2	2.3	117
ADM - 160M2-2	15	20	2930	28.8	89	0.89	7.5	2.2	2.3	125
ADM - 160L-2	18.5	25	2930	34.7	90	0.9	7.5	2.2	2.3	147
ADM - 180M-2	22	30	2940	41	90	0.9	7.5	2	2.3	180
ADM - 200L1-2	30	40	2950	55.5	91.2	0.9	7.5	2	2.3	240
ADM - 200L2-2	37	50	2950	67.9	92	0.9	7.5	2	2.3	255
ADM - 225M-2	45	60	2970	82.3	92.3	0.9	7.5	2	2.3	309
ADM - 250M-2	55	75	2970	101	92.5	0.9	7.5	2	2.3	403
ADM - 280S-2	75	100	2970	134	93	0.9	7.5	2	2.3	544
ADM - 280M-2	90	125	2970	160	93.8	0.91	7.5	2	2.3	620
ADM - 315S-2	110	150	2980	195	94	0.91	7.1	1.8	2.2	980
ADM - 315M-2	132	180	2980	233	94.5	0.91	7.1	1.8	2.2	1080
ADM - 315L1-2	160	220	2980	279	94.6	0.92	7.1	1.8	2.2	1160
ADM - 315L2-2	200	270	2980	348	94.8	0.92	7.1	1.8	2.2	1190
ADM - 355M-2	250	340	2980	433	95.3	0.92	7.1	1.6	2.2	1760
ADM - 355L-2	315	430	2980	544	95.6	0.92	7.1	1.6	2.2	1850



## Technical Information

Type	Rated Output		Full Load				Ist/In Locked Current	Tst/Tn Locked Torque	Tm/Tn Max Torque	Net Weight (B3) Kg
	KW	HP	Speed r/min	Current A	Eff %	Power Factor COSØ	Rated Current	Rated Torque	Rated Torque	
380 V 50Hz Synchronous Speed 1500 r/min (4 poles)										
ADM - 80M1-4	0.55	0.75	1390	1.57	71	0.75	5.2	2.4	2.3	17
ADM - 80M2-4	0.75	1	1390	2.03	73	0.76	6	2.3	2.3	18
ADM - 90S-4	1.1	1.5	1400	2.89	75	0.77	6	2.3	2.3	22
ADM - 90L-4	1.5	2	1400	3.7	78	0.79	6	2.3	2.3	27
ADM - 100L1-4	2.2	3	1430	5.16	80	0.81	7	2.3	2.3	43
ADM - 100L2-4	3	4	1430	6.78	82	0.82	7	2.3	2.3	38
ADM - 112M-4	4	5.5	1440	8.8	84	0.82	7	2.3	2.3	43
ADM - 132S-4	5.5	7.5	1440	11.7	85	0.83	7	2.3	2.3	68
ADM - 132M-4	7.5	10	1440	15.6	87	0.84	7	2.3	2.3	81
ADM - 160M-4	11	15	1460	22.3	88	0.84	7	2.2	2.3	123
ADM - 160L-4	15	20	1460	30.1	89	0.85	7.5	2.2	2.3	144
ADM - 180M-4	18.5	25	1470	36.5	90.5	0.86	7.5	2.2	2.3	182
ADM - 180L-4	22	30	1470	43.2	91	0.86	7.5	2.2	2.3	190
ADM - 200L-4	30	40	1470	57.6	92	0.86	7.2	2.2	2.3	270
ADM - 225S-4	37	50	1480	69.9	92.5	0.87	7.2	2.2	2.3	284
ADM - 225M-4	45	60	1480	84.7	92.8	0.87	7.2	2.2	2.3	320
ADM - 250M-4	55	75	1480	103	93	0.87	7.2	2.2	2.3	427
ADM - 280S-4	75	100	1480	140	93.8	0.87	7.2	2.2	2.3	562
ADM - 280M-4	90	125	1490	167	94.2	0.87	7.2	2.2	2.3	667
ADM - 315S-4	110	150	1490	201	94.5	0.88	6.9	2.1	2.2	1000
ADM - 315M-4	132	180	1490	240	94.8	0.88	6.9	2.1	2.2	1100
ADM - 315L1-4	160	220	1490	287	94.9	0.89	6.9	2.1	2.2	1160
ADM - 315L2-4	200	270	1490	359	95	0.89	6.9	2.1	2.2	1270
ADM - 355M-4	250	340	1485	443	95.3	0.9	6.9	2.1	2.2	1700
ADM - 355L-4	315	430	1485	556	95.6	0.9	6.9	2.2	2.2	1850
ADM - 355LA-4	355	475	1485	630	95.2	0.9	6.9	2.1	2.2	2000
ADM - 400M1-4	400	545	1490	723	95.5	0.88	6.9	1.4	3	3000
ADM - 400M2-4	450	610	1490	804	95.5	0.89	6.9	1.4	3	3100
ADM - 400L1-4	500	680	1490	893	95.6	0.89	7	1.3	3	3200
ADM - 400L2-4	560	760	1490	996	96	0.89	6.5	1.4	3	3400
ADM - 400L3-4	630	855	1490	1120	96	0.89	7.1	1.5	3.1	3500



## Technical Information

Type	Rated Output		Full Load				Ist/In Locked Current	Tst/Tn Locked Torque	Tm/Tn Max Torque	Net Weight (B3) Kg
	KW	HP	Speed r/min	Current A	Eff %	Power Factor COSØ	Rated Current	Rated Torque	Rated Torque	
380 V 50Hz Synchronous Speed 1000 r/min (6 poles)										
ADM - 80M1-6	0.37	0.5	890	1.3	62	0.7	4.7	1.9	2	17
ADM - 80M2-6	0.55	0.75	890	1.79	65	0.72	4.7	1.9	2.1	19
ADM - 90S-6	0.75	1	910	2.29	69	0.72	5.5	2	2.1	23
ADM - 90L-6	1.1	1.5	910	3.18	72	0.73	5.5	2	2.1	25
ADM - 100L-6	1.5	2	940	3.94	76	0.75	5.5	2	2.1	33
ADM - 112M-6	2.2	3	940	5.6	79	0.76	6.5	2	2.1	45
ADM - 132S-6	3	4	960	7.4	81	0.76	6.5	2.1	2.1	63
ADM - 132M1-6	4	5.5	960	9.8	82	0.76	6.5	2.1	2.1	73
ADM - 132M2-6	5.5	7.5	960	12.9	84	0.77	6.5	2.1	2.1	84
ADM - 160M-6	7.5	10	970	17	86	0.77	6.5	2	2.1	119
ADM - 160L-6	11	15	970	24.2	87.5	0.78	6.5	2	2.1	147
ADM - 180L-6	15	20	970	31.6	89	0.81	7	2	2.1	195
ADM - 200L1-6	18.5	25	970	38.6	90	0.81	7	2.1	2.1	220
ADM - 200L2-6	22	30	970	44.7	90	0.83	7	2.1	2.1	250
ADM - 225M-6	30	40	980	59.3	91.5	0.84	7	2	2.1	292
ADM - 250M-6	37	50	980	71	92	0.86	7	2.1	2.1	408
ADM - 280S-6	45	60	980	86	92.5	0.86	7	2.1	2	536
ADM - 280M-6	55	75	980	105	92.8	0.86	7	2.1	2	595
ADM - 315S-6	75	100	990	141	93.5	0.86	7	2	2	990
ADM - 315M-6	90	125	990	169	93.8	0.86	7	2	2	1080
ADM - 315L1-6	110	150	990	206	94	0.86	6.7	2	2	1150
ADM - 315L2-6	132	180	990	244	94.2	0.87	6.7	2	2	1210
ADM - 355M1-6	160	220	990	292	94.5	0.88	6.7	1.9	2	1600
ADM - 355M2-6	200	270	990	365	94.7	0.88	6.7	1.9	2	1700
ADM - 355L-6	250	340	990	455	94.9	0.88	6.7	1.9	2	1800
ADM - 400M1-6	315	430	990	574	95.8	0.87	6.1	1.4	2.9	3100
ADM - 400M2-6	355	475	990	647	95.8	0.87	6.5	1.4	2.9	3200
ADM - 400L1-6	400	545	990	719	96	0.88	7.5	1.5	3.5	3400

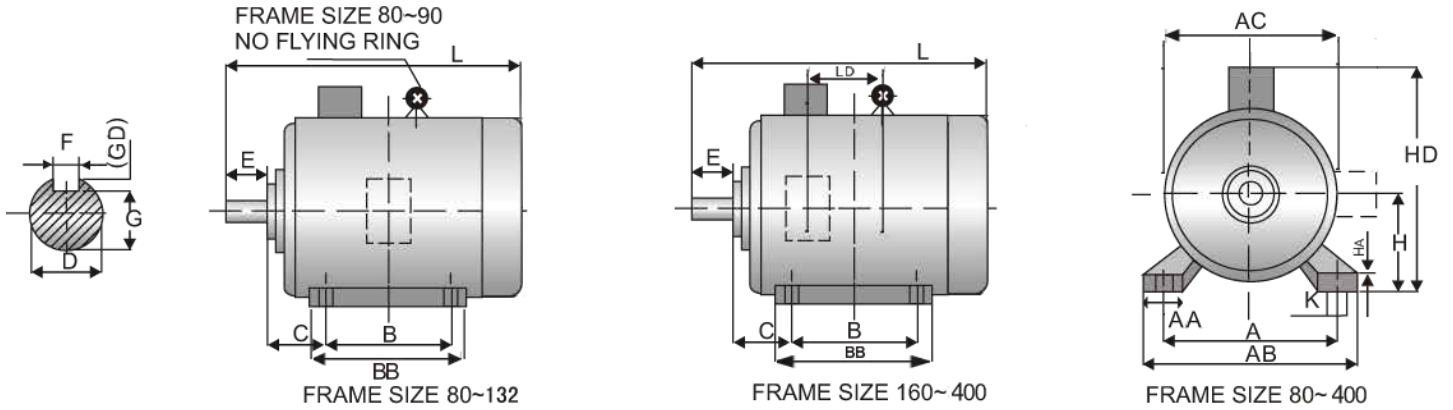


## Technical Information

Type	Rated Output		Full Load				Ist/In Locked Current	Tst/Tn Locked Torque	Tm/Tn Max Torque	Net Weight (B3) Kg
	KW	HP	Speed r/min	Current A	Eff %	Power Factor COSØ	Rated Current	Rated Torque	Rated Torque	
380 V 50Hz Synchronous Speed 750 r/min (8 poles)										
ADM 80M1-8	0.18	0.25	630	0.88	51	0.61	3.3	1.8	1.9	17
ADM 80M2-8	0.25	0.34	640	1.15	54	0.61	3.3	1.8	1.9	19
ADM 90S-8	0.37	0.5	660	1.49	62	0.61	4	1.8	2	23
ADM 90L-8	0.55	0.75	660	2.18	63	0.61	4	1.8	2	25
ADM 100L1-8	0.75	1	690	2.17	71	0.67	4	1.8	2	33
ADM 100L2-8	1.1	1.5	690	2.39	73	0.69	5	1.8	2	38
ADM 112M-8	1.5	2	680	4.5	75	0.69	5	1.8	2	50
ADM 132S-8	2.2	3	710	6	78	0.71	6	1.8	2	63
ADM 132M-8	3	4	710	7.9	79	0.73	6	1.8	2	79
ADM 160M1-8	4	5.5	720	10.3	81	0.73	6	1.9	2	118
ADM 160M2-8	5.5	7.5	720	13.6	83	0.74	6	2	2	119
ADM 160L-8	7.5	10	720	17.8	85.5	0.75	6	2	2	145
ADM 180L-8	11	15	730	25.1	87.5	0.76	6.6	2	2	184
ADM 200L-8	15	20	730	34.1	88	0.76	6.6	2	2	250
ADM 225S-8	18.5	25	730	40.6	90	0.76	6.6	1.9	2	266
ADM 225M-8	22	30	740	47.4	90.5	0.78	6.6	1.9	2	292
ADM 250M-8	30	40	740	64	91	0.79	6.6	1.9	2	405
ADM 280S-8	37	50	740	78	91.5	0.79	6.6	1.9	2	520
ADM 280M-8	45	60	740	94	92	0.79	6.6	1.9	2	592
ADM 315S-8	55	75	740	111	92.8	0.81	6.6	1.8	2	1000
ADM 315M-8	75	100	740	151	93	0.81	6.6	1.8	2	1100
ADM 315L1-8	90	125	740	178	93.8	0.82	6.6	1.8	2	1160
ADM 315L2-8	110	150	740	217	94	0.82	6.4	1.8	2	1230
ADM 355M1-8	132	180	740	261	93.7	0.82	6.4	1.8	2	1600
ADM 355M2-8	160	220	740	315	94.2	0.82	6.4	1.8	2	1700
ADM 355L-8	200	270	740	388	94.5	0.83	6.4	1.8	2	1800

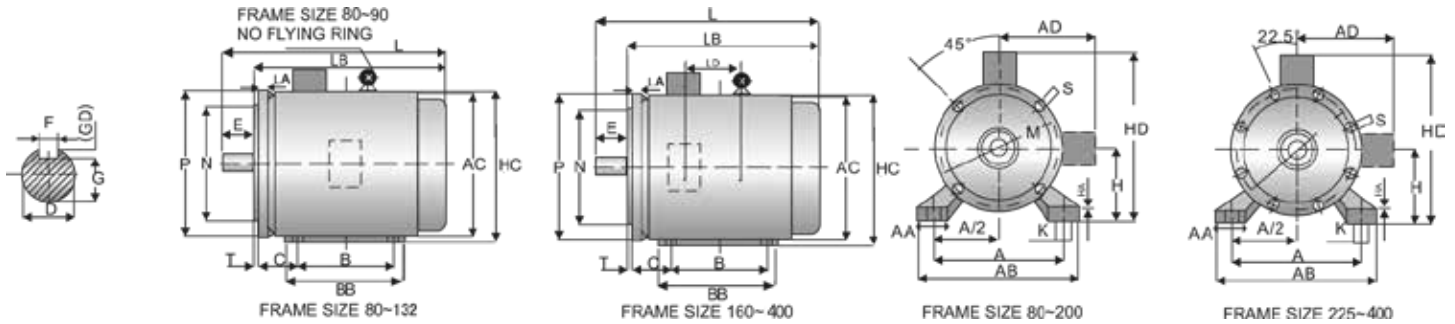


# DIMENSIONS FOR MOUNTING ARRANGEMENTS B3



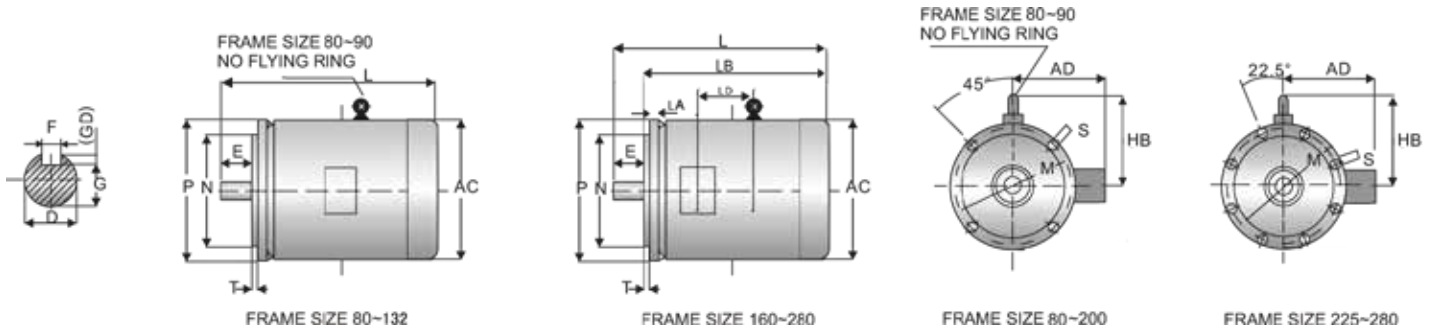
Frame	Dimensions ( mm )													
	A	AA	AB	AC	B	BB	C	H	HA	HD	K	L		LD
												2P	4,6,8P	
80	125	37	165	175	100	135	50	80 <sup>0</sup> <sub>-0.5</sub>	13	220	10	295	—	—
90S	140	37	180	195	100	135	56	90 <sup>0</sup> <sub>-0.5</sub>	13	250	10	320	—	—
90L	140	37	180	195	125	160	56	90 <sup>0</sup> <sub>-0.5</sub>	13	250	10	345	—	—
100L	160	42	205	215	140	180	63	100 <sup>0</sup> <sub>-0.5</sub>	15	270	12	385	—	—
112M	190	52	230	240	140	185	70	112 <sup>0</sup> <sub>-0.5</sub>	17	300	12	400	—	—
132S	216	63	270	275	140	205	89	132 <sup>0</sup> <sub>-0.5</sub>	20	345	12	470	—	—
132M	216	63	270	275	178	243	89	132 <sup>0</sup> <sub>-0.5</sub>	20	345	12	510	—	—
160M	254	73	320	330	210	275	108	160 <sup>0</sup> <sub>-0.5</sub>	22	420	15	615	55	—
160L	254	73	320	330	254	320	108	160 <sup>0</sup> <sub>-0.5</sub>	22	420	15	670	55	—
180M	279	73	355	380	241	315	121	180 <sup>0</sup> <sub>-0.5</sub>	24	455	15	700	86	—
180L	279	73	355	380	279	345	121	180 <sup>0</sup> <sub>-0.5</sub>	24	455	15	740	105	—
200L	318	73	395	420	305	378	133	200 <sup>0</sup> <sub>-0.5</sub>	27	505	19	770	102	—
225S	356	83	435	470	286	382	149	225 <sup>0</sup> <sub>-0.5</sub>	27	560	19	—	815	103
225M	356	83	435	470	311	407	149	225 <sup>0</sup> <sub>-0.5</sub>	27	560	19	820	845	116
250M	406	88	490	510	349	458	168	250 <sup>0</sup> <sub>-0.5</sub>	33	615	24	910	—	131
280S	457	93	550	580	368	535	190	280 <sup>0</sup> <sub>-1.0</sub>	38	680	24	985	—	168
280M	457	93	550	580	419	586	190	280 <sup>0</sup> <sub>-1.0</sub>	38	680	24	1035	—	194
315S	508	120	635	645	406	610	216	315 <sup>0</sup> <sub>-1.0</sub>	45	800	28	1160	1270	205
315M	508	120	635	645	457	660	216	315 <sup>0</sup> <sub>-1.0</sub>	45	800	28	1190	1300	240
315L	508	120	635	645	508	740	216	315 <sup>0</sup> <sub>-1.0</sub>	45	800	28	1190	1300	240
355M	610	120	730	710	560	750	254	355 <sup>0</sup> <sub>-1.0</sub>	52	950	28	1500	1530	350
355L	610	120	730	710	630	750	254	355 <sup>0</sup> <sub>-1.0</sub>	52	950	28	1500	1530	350
400M	686	120	806	856	630	1090	280	400 <sup>0</sup> <sub>-1.0</sub>	45	1010	35	—	1920	435
400L	686	120	806	856	710	1090	280	400 <sup>0</sup> <sub>-1.0</sub>	45	1010	35	—	1920	435

# DIMENSIONS FOR MOUNTING ARRANGEMENTS B35/V15



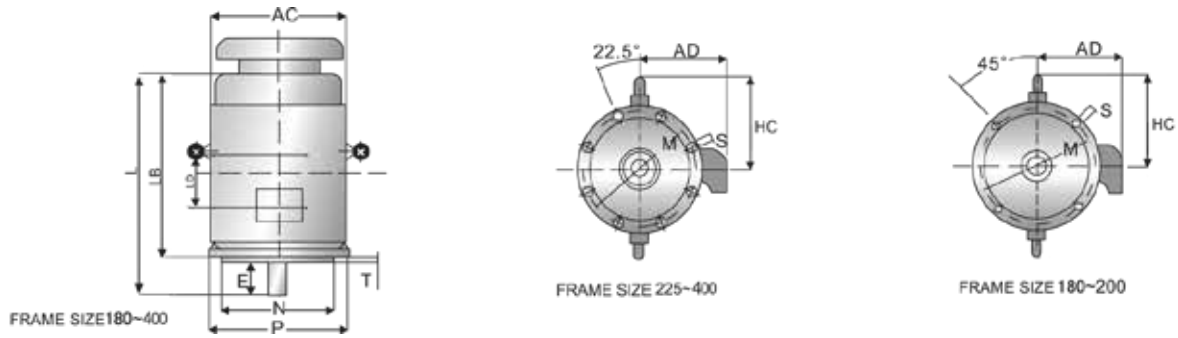
Frame Size	Dimensions ( mm )																						
	A	AA	AB	AC	B	BB	C	H	HA	HC	HD	K	L		LA	LB	M	N	P	R	S	T	LD
												2P	4,6,8P										
80	125	37	165	175	100	135	50	80 <sup>0</sup> <sub>-0.5</sub>	13	170	220	10	295	13	245	165	130J6 <sup>(+0.014)</sup> <sub>(-0.011)</sub>	200	0	4-Φ12	3.5	—	
90S	140	37	180	195	100	135	56	90 <sup>0</sup> <sub>-0.5</sub>	13	190	250	10	320	13	260	165	130J6 <sup>(+0.014)</sup> <sub>(-0.011)</sub>	200	0	4-Φ12	3.5	—	
90L	140	37	180	195	125	160	56	90 <sup>0</sup> <sub>-0.5</sub>	13	190	250	10	345	13	285	165	130J6 <sup>(+0.014)</sup> <sub>(-0.011)</sub>	200	0	4-Φ12	3.5	—	
100L	160	42	205	215	140	180	63	100 <sup>0</sup> <sub>-0.5</sub>	15	—	270	12	385	15	320	215	180J6 <sup>(+0.014)</sup> <sub>(-0.011)</sub>	250	0	4-Φ15	4	—	
112M	190	52	230	240	140	185	70	112 <sup>0</sup> <sub>-0.5</sub>	17	—	300	12	400	15	340	215	180J6 <sup>(+0.014)</sup> <sub>(-0.011)</sub>	250	0	4-Φ15	4	—	
132S	216	63	270	275	140	205	89	132 <sup>0</sup> <sub>-0.5</sub>	20	—	345	12	470	16	395	265	230J6 <sup>(+0.016)</sup> <sub>(-0.013)</sub>	300	0	4-Φ15	4	—	
132M	216	63	270	275	178	243	89	132 <sup>0</sup> <sub>-0.5</sub>	20	—	345	12	510	16	435	265	230J6 <sup>(+0.016)</sup> <sub>(-0.013)</sub>	300	0	4-Φ15	4	—	
160M	254	73	320	330	210	275	108	160 <sup>0</sup> <sub>-0.5</sub>	22	—	420	15	615	18	490	300	250J6 <sup>(+0.016)</sup> <sub>(-0.013)</sub>	350	0	4-Φ19	5	55	
160L	254	73	320	330	254	320	108	160 <sup>0</sup> <sub>-0.5</sub>	22	—	420	15	670	18	535	300	250J6 <sup>(+0.016)</sup> <sub>(-0.013)</sub>	350	0	4-Φ19	5	55	
180M	279	73	355	380	241	315	121	180 <sup>0</sup> <sub>-0.5</sub>	24	—	455	15	700	20	560	300	250J6 <sup>(+0.016)</sup> <sub>(-0.013)</sub>	350	0	4-Φ19	5	86	
180L	279	73	355	380	279	353	121	180 <sup>0</sup> <sub>-0.5</sub>	24	—	455	15	740	20	600	300	250J6 <sup>(+0.016)</sup> <sub>(-0.013)</sub>	350	0	4-Φ19	5	105	
200L	318	73	395	420	305	378	133	200 <sup>0</sup> <sub>-0.5</sub>	27	—	505	19	770	22	665	350	300J6 <sup>(±0.016)</sup>	400	0	4-Φ19	5	102	
225S	356	83	435	470	286	382	149	225 <sup>0</sup> <sub>-0.5</sub>	27	—	560	19	—	820	22	680	400	350J6 <sup>(±0.018)</sup>	450	0	8-Φ19	5	103
225M	356	83	435	470	311	407	149	225 <sup>0</sup> <sub>-0.5</sub>	27	—	560	19	815	845	22	705	400	350J6 <sup>(±0.018)</sup>	450	0	8-Φ19	5	116
250M	406	88	490	510	349	458	168	250 <sup>0</sup> <sub>-0.5</sub>	33	—	615	24	910	24	790	500	450J6 <sup>(±0.02)</sup>	550	0	8-Φ19	5	131	
280S	457	93	550	580	368	535	190	280 <sup>0</sup> <sub>-1.0</sub>	38	—	680	24	985	24	860	500	450J6 <sup>(±0.02)</sup>	550	0	8-Φ19	5	168	
280M	457	93	550	580	419	586	190	280 <sup>0</sup> <sub>-1.0</sub>	38	—	680	24	1035	24	910	500	450J6 <sup>(±0.02)</sup>	550	0	8-Φ19	5	193	
315S	508	120	635	645	406	610	216	315 <sup>0</sup> <sub>-1.0</sub>	48	—	800	28	1185	1215	25	1060	600	550J6 <sup>(±0.022)</sup>	660	0	8-Φ24	6	205
315M	508	120	635	645	457	660	216	315 <sup>0</sup> <sub>-1.0</sub>	48	—	800	28	1295	1325	25	1120	600	550J6 <sup>(±0.022)</sup>	660	0	8-Φ24	6	240
315L	508	120	635	645	508	740	216	315 <sup>0</sup> <sub>-1.0</sub>	48	—	800	28	1295	1325	25	1120	600	550J6 <sup>(±0.022)</sup>	660	0	8-Φ24	6	240
355M	610	120	730	710	560	750	254	355 <sup>0</sup> <sub>-1.0</sub>	52	—	950	28	1500	1530	30	1300	740	680J6 <sup>(±0.025)</sup>	800	0	8-Φ24	6	350
355L	610	120	730	710	630	750	254	355 <sup>0</sup> <sub>-1.0</sub>	52	—	950	28	1500	1530	30	1300	740	680J6 <sup>(±0.025)</sup>	800	0	8-Φ24	6	350
400M	686	120	806	856	630	1090	280	400 <sup>0</sup> <sub>-1.0</sub>	45	—	1010	35	—	1920	25	1710	940	880J6 <sup>(±0.028)</sup>	1000	0	8-Φ28	—	435
400L	686	120	806	856	710	1090	280	400 <sup>0</sup> <sub>-1.0</sub>	45	—	1010	35	—	1920	25	1710	940	880J6 <sup>(±0.028)</sup>	1000	0	8-Φ28	—	435

# DIMENSIONS FOR MOUNTING ARRANGEMENTS B5



Frame Size	Dimensions ( mm )													
	AC	AD	HB	L		LA	LB	M	N	P	R	S	T	LD
				2P	4,6,8P									
80	175	145	—	295		13	245	165	130J6 <sup>(+0.014)</sup> <sub>(-0.011)</sub>	200	0	4-Φ12	3.5	—
90S	195	155	—	315		13	260	165	130J6 <sup>(+0.014)</sup> <sub>(-0.011)</sub>	200	0	4-Φ12	3.5	—
90L	195	155	—	340		13	285	165	130J6 <sup>(+0.014)</sup> <sub>(-0.011)</sub>	200	0	4-Φ12	3.5	—
100L	215	180	145	385		15	320	215	180J6 <sup>(+0.014)</sup> <sub>(-0.011)</sub>	250	0	4-Φ15	4	—
112M	240	190	160	400		15	340	215	180J6 <sup>(+0.014)</sup> <sub>(-0.011)</sub>	250	0	4-Φ15	4	—
132S	275	210	178	470		16	395	265	230J6 <sup>(+0.016)</sup> <sub>(-0.013)</sub>	300	0	4-Φ15	4	—
132M	275	210	178	510		16	435	265	230J6 <sup>(+0.016)</sup> <sub>(-0.013)</sub>	300	0	4-Φ15	4	—
160M	330	255	215	615		18	490	300	250J6 <sup>(+0.016)</sup> <sub>(-0.013)</sub>	350	0	4-Φ19	5	55
160L	330	255	215	670		18	535	300	250J6 <sup>(+0.016)</sup> <sub>(-0.013)</sub>	350	0	4-Φ19	5	55
180M	380	280	250	700		20	560	300	250J6 <sup>(+0.016)</sup> <sub>(-0.013)</sub>	350	0	4-Φ19	5	86
180L	380	280	250	740		20	600	300	250J6 <sup>(+0.016)</sup> <sub>(-0.013)</sub>	350	0	4-Φ19	5	105
200L	420	305	280	770		22	665	350	300J6 <sup>(±0.016)</sup>	400	0	4-Φ19	5	102
225S	470	335	298	—	815	22	680	400	350J6 <sup>(±0.018)</sup>	450	0	8-Φ19	5	103
225M	470	335	298	820	845	22	705	400	350J6 <sup>(±0.018)</sup>	450	0	8-Φ19	5	116
250M	510	370	330	910		24	790	500	450J6 <sup>(±0.02)</sup>	550	0	8-Φ19	5	131
280S	580	410	370	985		24	860	500	450J6 <sup>(±0.02)</sup>	550	0	8-Φ19	5	168
280M	580	410	370	1035		24	910	500	450J6 <sup>(±0.02)</sup>	550	0	8-Φ19	5	193

# DIMENSIONS FOR MOUNTING ARRANGEMENTS V1



Frame Size	Dimensions ( mm )																							
	AC	AD	L		LA	LB	D		E		F		G		GD		HF	M	N	P	R	S	T	LD
			2P	4,6,8P			2P	4,6,8P	2P	4,6,8P	2P	4,6,8P	2P	4,6,8P										
180M	380	280	752	20	642	48K6 <sup>(+0.018/+0.002)</sup>	110	14	42.5	9	500	300	250J6 <sup>(+0.016/-0.013)</sup>	350	0	4-Φ19	5	86						
180L	380	280	792	20	682	48K6 <sup>(+0.018/+0.002)</sup>	110	14	42.5	9	500	300	250J6 <sup>(+0.016/-0.013)</sup>	350	0	4-Φ19	5	105						
200L	420	305	831	22	721	55M6 <sup>(+0.03/+0.011)</sup>	110	16	49	10	550	350	300J6 (±0.016)	400	0	4-Φ19	5	102						
225S	470	335	—	811	22	741	—	140	—	18	—	53	—	11	610	400	350J6 (±0.018)	450	0	8-Φ19	5	103		
225M	470	335	876	906	22	766	55M6 <sup>(+0.03/+0.011)</sup>	60M6 <sup>(+0.03/+0.011)</sup>	110	140	16	18	49	53	10	11	610	400	350J6 (±0.018)	450	0	8-Φ19	5	116
250M	510	370	981	24	841	60M6 <sup>(+0.03/+0.011)</sup>	65M6 <sup>(+0.03/+0.011)</sup>	140	18	53	58	11	650	500	450J6 (±0.02)	550	0	8-Φ19	5	131				
280S	580	410	1065	24	925	65M6 <sup>(+0.03/+0.011)</sup>	75M6 <sup>(+0.03/+0.011)</sup>	140	18	20	58	67.5	11	12	720	500	450J6 (±0.02)	550	0	8-Φ19	5	168		
280M	580	410	1115	24	975	65M6 <sup>(+0.03/+0.011)</sup>	75M6 <sup>(+0.03/+0.011)</sup>	140	18	20	58	67.5	11	12	720	500	450J6 (±0.02)	550	0	8-Φ19	5	193		
315S	645	530	1285	1315	25	1145	65M6 <sup>(+0.03/+0.011)</sup>	80M6 <sup>(+0.03/+0.011)</sup>	140	170	18	22	58	71	11	14	900	600	550J6 (±0.022)	660	0	8-Φ24	6	205
315M	645	530	1395	1425	25	1255	65M6 <sup>(+0.03/+0.011)</sup>	80M6 <sup>(+0.03/+0.011)</sup>	140	170	18	22	58	71	11	14	900	600	550J6 (±0.022)	660	0	8-Φ24	6	240
315L	645	530	1395	1425	25	1255	65M6 <sup>(+0.03/+0.011)</sup>	80M6 <sup>(+0.03/+0.011)</sup>	140	170	18	22	58	71	11	14	900	600	550J6 (±0.022)	660	0	8-Φ24	6	240
355M	710	655	1640	1670	25	1500	75M6 <sup>(+0.03/+0.011)</sup>	95M6 <sup>(+0.035/+0.013)</sup>	140	170	20	25	67.5	86	12	14	1010	740	680J6 (±0.025)	800	0	8-Φ24	6	350
355L	710	655	1640	1670	25	1500	75M6 <sup>(+0.03/+0.011)</sup>	95M6 <sup>(+0.035/+0.013)</sup>	140	170	20	25	67.5	86	12	14	1010	740	680J6 (±0.025)	800	0	8-Φ24	6	350
400M	856	690	—	1920	25	1710	—	110M6 <sup>(+0.035/+0.013)</sup>	—	210	—	28	—	100	—	16	1010	940	880J6 (±0.028)	1000	0	8-Φ28	6	435
400L	856	690	—	1920	25	1710	—	110M6 <sup>(+0.035/+0.013)</sup>	—	210	—	28	—	100	—	16	1010	940	880J6 (±0.028)	1000	0	8-Φ28	6	435



# Dimensions Of Shaft Extension

## For B3 AND B35

Frame Size	Dimensions ( mm )									
	D		E		F		G		GD	
	2P	4,6,8P	2P	4,6,8P	2P	4,6,8P	2P	4,6,8P	2P	4,6,8P
80	19J6 <sup>(+0.009)</sup> <sub>(-0.004)</sub>		40		6		15.5		6	
90S	24J6 <sup>(+0.009)</sup> <sub>(-0.004)</sub>		50		8		20		7	
90L	24J6 <sup>(+0.009)</sup> <sub>(-0.004)</sub>		50		8		20		7	
100L	28J6 <sup>(+0.009)</sup> <sub>(-0.004)</sub>		60		8		24		7	
112M	28J6 <sup>(+0.009)</sup> <sub>(-0.004)</sub>		60		8		24		7	
132S	38K6 <sup>(+0.018)</sup> <sub>(+0.002)</sub>		80		10		33		8	
132M	38K6 <sup>(+0.018)</sup> <sub>(+0.002)</sub>		80		10		33		8	
160M	42K6 <sup>(+0.018)</sup> <sub>(+0.002)</sub>		110		12		37		8	
160L	42K6 <sup>(+0.018)</sup> <sub>(+0.002)</sub>		110		12		37		8	
180M	48K6 <sup>(+0.018)</sup> <sub>(+0.002)</sub>		110		14		42.5		9	
180L	48K6 <sup>(+0.018)</sup> <sub>(+0.002)</sub>		110		14		42.5		9	
200L	55M6 <sup>(+0.03)</sup> <sub>(+0.011)</sub>		110		16		49		10	
225S	60M6 <sup>(+0.03)</sup> <sub>(+0.011)</sub>	—	140	—	18	—	53	—	11	—
225M	55M6 <sup>(+0.03)</sup> <sub>(+0.011)</sub>	60M6 <sup>(+0.03)</sup> <sub>(+0.011)</sub>	110	140	16	18	49	53	10	11
250M	60M6 <sup>(+0.03)</sup> <sub>(+0.011)</sub>	65M6 <sup>(+0.03)</sup> <sub>(+0.011)</sub>	140		18		53	58		11
280S	65M6 <sup>(+0.03)</sup> <sub>(+0.011)</sub>	75M6 <sup>(+0.03)</sup> <sub>(+0.011)</sub>	140		18	20	58	67.5	11	12
280M	65M6 <sup>(+0.03)</sup> <sub>(+0.011)</sub>	75M6 <sup>(+0.03)</sup> <sub>(+0.011)</sub>	140	140	18	20	58	67.5	11	12
315S	65M6 <sup>(+0.03)</sup> <sub>(+0.011)</sub>	80M6 <sup>(+0.03)</sup> <sub>(+0.011)</sub>	140	170	18	22	58	71	11	14
315M	65M6 <sup>(+0.03)</sup> <sub>(+0.011)</sub>	80M6 <sup>(+0.03)</sup> <sub>(+0.011)</sub>	140	170	18	22	58	71	11	14
315L	65M6 <sup>(+0.03)</sup> <sub>(+0.011)</sub>	80M6 <sup>(+0.03)</sup> <sub>(+0.011)</sub>	140	170	18	22	58	71	11	14
355M	75M6 <sup>(+0.03)</sup> <sub>(+0.011)</sub>	95M6 <sup>(+0.035)</sup> <sub>(+0.013)</sub>	140	170	20	25	67.5	86	12	14
355L	75M6 <sup>(+0.03)</sup> <sub>(+0.011)</sub>	95M6 <sup>(+0.035)</sup> <sub>(+0.013)</sub>	140	170	20	25	67.5	86	12	14
400M	—	110M6 <sup>(+0.035)</sup> <sub>(+0.013)</sub>	—	210	—	28	—	100	—	16
400L	—	110M6 <sup>(+0.035)</sup> <sub>(+0.013)</sub>	—	210	—	28	—	100	—	16

## For B5

Frame Size	Frame Size In IEC		Dimensions ( mm )									
			D		E		F		G		GD	
	2P	4,6,8P	2P	4,6,8P	2P	4,6,8P	2P	4,6,8P	2P	4,6,8P	2P	4,6,8P
80	19F165		19J6 <sup>(+0.009)</sup> <sub>(-0.004)</sub>		40		6		15.5		6	
90S	24F165		24J6 <sup>(+0.009)</sup> <sub>(-0.004)</sub>		50		8		20		7	
90L	24F165		24J6 <sup>(+0.009)</sup> <sub>(-0.004)</sub>		50		8		20		7	
100L	28F215		28J6 <sup>(+0.009)</sup> <sub>(-0.004)</sub>		60		8		24		7	
112M	28F215		28J6 <sup>(+0.009)</sup> <sub>(-0.004)</sub>		60		8		24		7	
132S	38F265		38K6 <sup>(+0.018)</sup> <sub>(+0.002)</sub>		80		10		33		8	
132M	38F265		38K6 <sup>(+0.018)</sup> <sub>(+0.002)</sub>		80		10		33		8	
160M	42F300		42K6 <sup>(+0.018)</sup> <sub>(+0.002)</sub>		110		12		37		8	
160L	42F300		42K6 <sup>(+0.018)</sup> <sub>(+0.002)</sub>		110		12		37		8	
180M	48F300		48K6 <sup>(+0.018)</sup> <sub>(+0.002)</sub>		110		14		42.5		9	
180L	48F300		48K6 <sup>(+0.018)</sup> <sub>(+0.002)</sub>		110		14		42.5		9	
200L	55F350		55M6 <sup>(+0.03)</sup> <sub>(+0.011)</sub>		110		16		49		10	
225S	—	60F400	—	60M6 <sup>(+0.03)</sup> <sub>(+0.011)</sub>	—	140	—	18	—	53	—	11
225M	55F400	60F400	55M6 <sup>(+0.03)</sup> <sub>(+0.011)</sub>	60M6 <sup>(+0.03)</sup> <sub>(+0.011)</sub>	110	140	16	18	49	53	10	11
250M	60F500	65F500	60M6 <sup>(+0.03)</sup> <sub>(+0.011)</sub>	65M6 <sup>(+0.03)</sup> <sub>(+0.011)</sub>	140		18		53	58		11
280S	65F500	75F500	65M6 <sup>(+0.03)</sup> <sub>(+0.011)</sub>	75M6 <sup>(+0.03)</sup> <sub>(+0.011)</sub>	140		18	20	58	67.5	11	12
280M	65F500	75F500	65M6 <sup>(+0.03)</sup> <sub>(+0.011)</sub>	75M6 <sup>(+0.03)</sup> <sub>(+0.011)</sub>	140		18	20	58	67.5	11	12



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