

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
- Δ -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





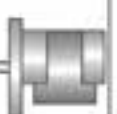




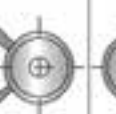
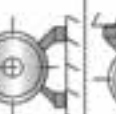



General Information

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	80-180	80-180	80-180	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 60Hz Synchronous Speed 3600 r/min (2 poles)										
ADM - 80M1-2	0.75	1	3396	1.38	75	0.83	6.1	2.2	2.3	16
ADM - 80M2-2	1.1	1.5	3396	2.58	77	0.84	7	2.2	2.3	17
ADM - 90S-2	1.5	2	3408	3.43	79	0.84	7	2.2	2.3	22
ADM - 90L-2	2.2	3	3408	4.85	81	0.85	7	2.2	2.3	25
ADM - 100L-2	3	4	3444	6.31	83	0.87	7.5	2.2	2.3	33
ADM - 112M-2	4	5.5	3468	8.1	85	0.88	7.5	2.2	2.3	45
ADM - 132S1-2	5.5	7.5	3480	11	86	0.88	7.5	2.2	2.3	64
ADM - 132S2-2	7.5	10	3480	14.9	87	0.88	7.5	2.2	2.3	70
ADM - 160M1-2	11	15	3516	21.3	88	0.89	7.5	2.2	2.3	117
ADM - 160M2-2	15	20	3516	28.8	89	0.89	7.5	2.2	2.3	125
ADM - 160L-2	18.5	25	3516	34.7	90	0.9	7.5	2.2	2.3	147
ADM - 180M-2	22	30	3528	41	90	0.9	7.5	2	2.3	180
ADM - 200L1-2	30	40	3540	55.5	91.2	0.9	7.5	2	2.3	240
ADM - 200L2-2	37	50	3540	67.9	92	0.9	7.5	2	2.3	255
ADM - 225M-2	45	60	3564	82.3	92.3	0.9	7.5	2	2.3	309
ADM - 250M-2	55	75	3564	101	92.5	0.9	7.5	2	2.3	403
ADM - 280S-2	75	100	3564	134	93	0.9	7.5	2	2.3	544
ADM - 280M-2	90	125	3564	160	93.8	0.91	7.5	2	2.3	620
ADM - 315S-2	110	150	3576	195	94	0.91	7.1	1.8	2.2	980
ADM - 315M-2	132	180	3576	233	94.5	0.91	7.1	1.8	2.2	1080
ADM - 315L1-2	160	220	3576	279	94.6	0.92	7.1	1.8	2.2	1160
ADM - 315L2-2	200	270	3576	348	94.8	0.92	7.1	1.8	2.2	1190
ADM - 355M-2	250	340	3576	433	95.3	0.92	7.1	1.6	2.2	1760
ADM - 355L-2	315	430	3576	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	
<i>380 V 60Hz Synchronous Speed 1800 r/min (4 poles)</i>										
ADM - 80M1-4	0.55	0.75	1668	1.57	71	0.75	5.2	2.4	2.3	17
ADM - 80M2-4	0.75	1	1668	2.03	73	0.76	6	2.3	2.3	18
ADM - 90S-4	1.1	1.5	1680	2.89	75	0.77	6	2.3	2.3	22
ADM - 90L-4	1.5	2	1680	3.7	78	0.79	6	2.3	2.3	27
ADM - 100L1-4	2.2	3	1716	5.16	80	0.81	7	2.3	2.3	43
ADM - 100L2-4	3	4	1716	6.78	82	0.82	7	2.3	2.3	38
ADM - 112M-4	4	5.5	1728	8.8	84	0.82	7	2.3	2.3	43
ADM - 132S-4	5.5	7.5	1728	11.7	85	0.83	7	2.3	2.3	68
ADM - 132M-4	7.5	10	1728	15.6	87	0.84	7	2.3	2.3	81
ADM - 160M-4	11	15	1752	22.3	88	0.84	7	2.2	2.3	123
ADM - 160L-4	15	20	1752	30.1	89	0.85	7.5	2.2	2.3	144
ADM - 180M-4	18.5	25	1764	36.5	90.5	0.86	7.5	2.2	2.3	182
ADM - 180L-4	22	30	1764	43.2	91	0.86	7.5	2.2	2.3	190
ADM - 200L-4	30	40	1764	57.6	92	0.86	7.2	2.2	2.3	270
ADM - 225S-4	37	50	1776	69.9	92.5	0.87	7.2	2.2	2.3	284
ADM - 225M-4	45	60	1776	84.7	92.8	0.87	7.2	2.2	2.3	320
ADM - 250M-4	55	75	1776	103	93	0.87	7.2	2.2	2.3	427
ADM - 280S-4	75	100	1776	140	93.8	0.87	7.2	2.2	2.3	562
ADM - 280M-4	90	125	1788	167	94.2	0.87	7.2	2.2	2.3	667
ADM - 315S-4	110	150	1788	201	94.5	0.88	6.9	2.1	2.2	1000
ADM - 315M-4	132	180	1788	240	94.8	0.88	6.9	2.1	2.2	1100
ADM - 315L1-4	160	220	1788	287	94.9	0.89	6.9	2.1	2.2	1160
ADM - 315L2-4	200	270	1788	359	95	0.89	6.9	2.1	2.2	1270
ADM - 355M-4	250	340	1782	443	95.3	0.9	6.9	2.1	2.2	1700
ADM - 355L-4	315	430	1782	556	95.6	0.9	6.9	2.2	2.2	1850
ADM - 355LA-4	355	475	1782	630	95.2	0.9	6.9	2.1	2.2	2000
ADM - 400M1-4	400	545	1788	723	95.5	0.88	6.9	1.4	3	3000
ADM - 400M2-4	450	610	1788	804	95.5	0.89	6.9	1.4	3	3100
ADM - 400L1-4	500	680	1788	893	95.6	0.89	7	1.3	3	3200
ADM - 400L2-4	560	760	1788	996	96	0.89	6.5	1.4	3	3400
ADM - 400L3-4	630	855	1788	1120	96	0.89	7.1	1.5	3.1	3500



Technical Information

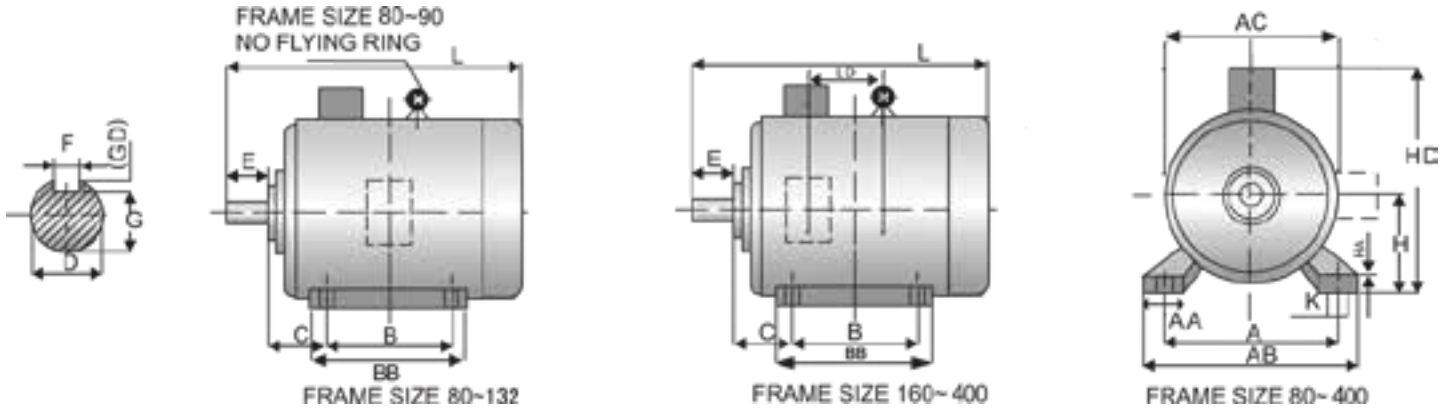
Type	Rated Output		Full Load				Ist/In Locked Current	Tst/Tn Locked Torque	Tm/Tn Max Torque	Net Weight (B3) Kg
	KW	HP	Speed r/min	Current A	Eff %	Power Factor COSØ	Rated Current	Rated Torque	Rated Torque	
380 V 60Hz Synchronous Speed 1200 r/min (6 poles)										
ADM - 80M1-6	0.37	0.5	1068	1.3	62	0.7	4.7	1.9	2	17
ADM - 80M2-6	0.55	0.75	1068	1.79	65	0.72	4.7	1.9	2.1	19
ADM - 90S-6	0.75	1	1092	2.29	69	0.72	5.5	2	2.1	23
ADM - 90L-6	1.1	1.5	1092	3.18	72	0.73	5.5	2	2.1	25
ADM - 100L-6	1.5	2	1128	3.94	76	0.75	5.5	2	2.1	33
ADM - 112M-6	2.2	3	1128	5.6	79	0.76	6.5	2	2.1	45
ADM - 132S-6	3	4	1152	7.4	81	0.76	6.5	2.1	2.1	63
ADM - 132M1-6	4	5.5	1152	9.8	82	0.76	6.5	2.1	2.1	73
ADM - 132M2-6	5.5	7.5	1152	12.9	84	0.77	6.5	2.1	2.1	84
ADM - 160M-6	7.5	10	1164	17	86	0.77	6.5	2	2.1	119
ADM - 160L-6	11	15	1164	24.2	87.5	0.78	6.5	2	2.1	147
ADM - 180L-6	15	20	1164	31.6	89	0.81	7	2	2.1	195
ADM - 200L1-6	18.5	25	1164	38.6	90	0.81	7	2.1	2.1	220
ADM - 200L2-6	22	30	1164	44.7	90	0.83	7	2.1	2.1	250
ADM - 225M-6	30	40	1176	59.3	91.5	0.84	7	2	2.1	292
ADM - 250M-6	37	50	1176	71	92	0.86	7	2.1	2.1	408
ADM - 280S-6	45	60	1176	86	92.5	0.86	7	2.1	2	536
ADM - 280M-6	55	75	1176	105	92.8	0.86	7	2.1	2	295
ADM - 315S-6	75	100	1188	141	93.5	0.86	7	2	2	990
ADM - 315M-6	90	125	1188	169	93.8	0.86	7	2	2	1080
ADM - 315L1-6	110	150	1188	206	94	0.86	6.7	2	2	1150
ADM - 315L2-6	132	180	1188	244	94.2	0.87	6.7	2	2	1210
ADM - 355M1-6	160	220	1188	292	94.5	0.88	6.7	1.9	2	1600
ADM - 355M2-6	200	270	1188	365	94.7	0.88	6.7	1.9	2	1700
ADM - 355L-6	250	340	1188	455	94.9	0.88	6.7	1.9	2	1800
ADM - 400M1-6	315	430	1188	574	95.8	0.87	6.1	1.4	2.9	3100
ADM - 400M2-6	355	475	1188	647	95.8	0.87	6.5	1.4	2.9	3200
ADM - 400L6	400	545	1188	719	96	0.88	7.5	1.5	3.5	3400



Technical Information

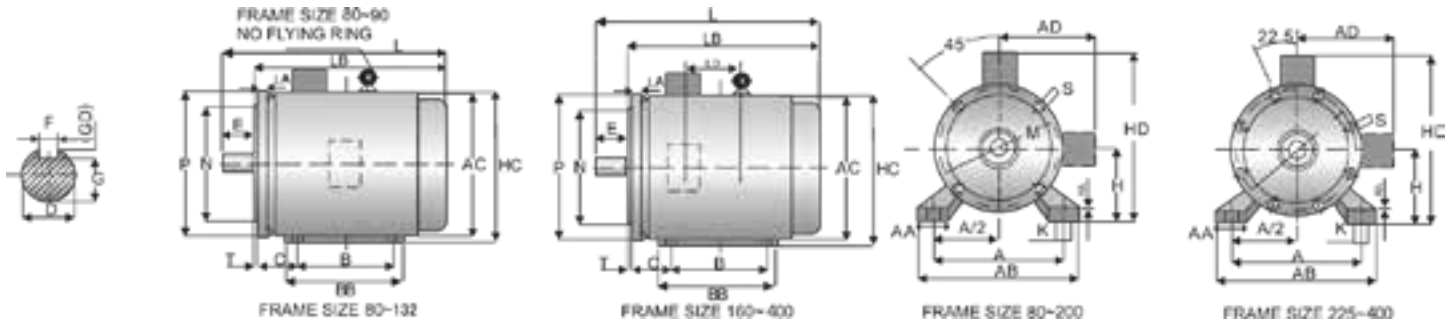
Type	Rated Output		Full Load				Ist/In Locked Current	Tst/Tn Locked Torque	Tm/Tn Max Torque	Net Weight (B3) Kg
	KW	HP	Speed r/min	Current A	Eff %	Power Factor COSØ	Rated Current	Rated Torque	Rated Torque	
380 V 60Hz Synchronous Speed 900 r/min (8 poles)										
ADM - 80M1-8	0.18	0.25	756	0.88	51	0.61	3.3	1.8	1.9	17
ADM - 80M2-8	0.25	0.34	768	1.15	54	0.61	3.3	1.8	1.9	19
ADM - 90S-8	0.37	0.5	792	1.49	62	0.61	4	1.8	2	23
ADM - 90L-8	0.55	0.75	792	2.18	63	0.61	4	1.8	2	25
ADM - 100L1-8	0.75	1	828	2.17	71	0.67	4	1.8	2	33
ADM - 100L2-8	1.1	1.5	828	2.39	73	0.69	5	1.8	2	38
ADM - 112M-8	1.5	2	816	4.5	75	0.69	5	1.8	2	50
ADM - 132S-8	2.2	3	852	6	78	0.71	6	1.8	2	63
ADM - 132M-8	3	4	852	7.9	79	0.73	6	1.8	2	79
ADM - 160M1-8	4	5.5	864	10.3	81	0.73	6	1.9	2	118
ADM - 160L2-8	5.5	7.5	864	13.6	83	0.74	6	2	2	119
ADM - 160L-8	7.5	10	864	17.8	85.5	0.75	6	2	2	145
ADM - 180L-8	11	15	876	25.1	87.5	0.76	6.6	2	2	184
ADM - 200L-8	15	20	876	34.1	88	0.76	6.6	2	2	250
ADM - 225S-8	18.5	25	876	40.6	90	0.76	6.6	1.9	2	266
ADM - 225M-8	22	30	888	47.4	90.5	0.78	6.6	1.9	2	292
ADM - 250M-8	30	40	888	64	91	0.79	6.6	1.9	2	405
ADM - 280S-8	37	50	888	78	91.5	0.79	6.6	1.9	2	520
ADM - 280M-8	45	60	888	94	92	0.79	6.6	1.9	2	592
ADM - 315S-8	55	75	888	111	92.8	0.81	6.6	1.8	2	1000
ADM - 315M-8	75	100	888	151	93	0.81	6.6	1.8	2	1100
ADM - 315L1-8	90	125	888	178	93.8	0.82	6.6	1.8	2	1160
ADM - 315L2-8	110	150	888	217	94	0.82	6.4	1.8	2	1230
ADM - 355M1-8	132	180	888	261	93.7	0.82	6.4	1.8	2	1600
ADM - 355M2-8	160	220	888	315	94.2	0.82	6.4	1.8	2	1700
ADM - 355L-8	200	270	888	388	94.5	0.83	6.4	1.8	2	1800

DIMENSIONS FOR MOUNTING ARRANGEMENTS B3



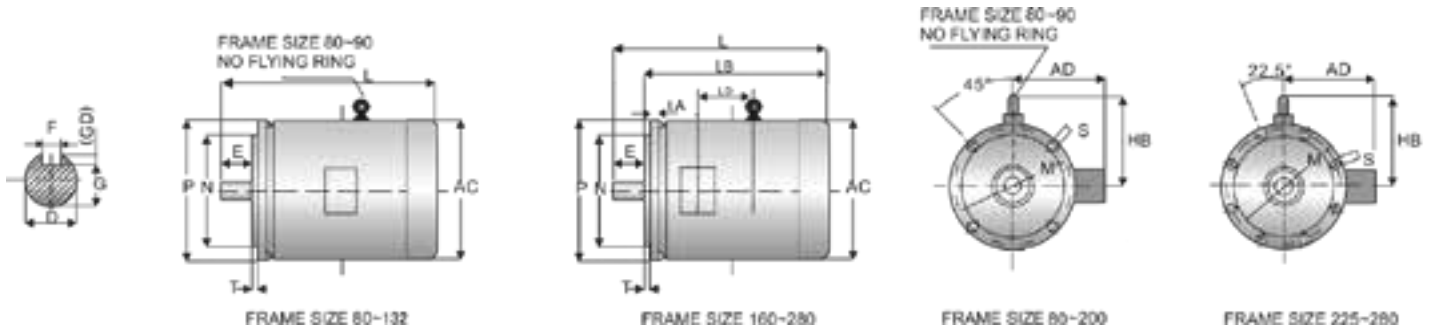
Frame	Dimensions (mm)													
	A	AA	AB	AC	B	BB	C	H	HA	HD	K	L		LD
												2P	4,6,8P	
80	125	37	165	175	100	135	50	80 ⁰ _{-0.5}	13	220	10	295		—
90S	140	37	180	195	100	135	56	90 ⁰ _{-0.5}	13	250	10	320		—
90L	140	37	180	195	125	160	56	90 ⁰ _{-0.5}	13	250	10	345		—
100L	160	42	205	215	140	180	63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

DIMENSIONS FOR MOUNTING ARRANGEMENTS B35/V15



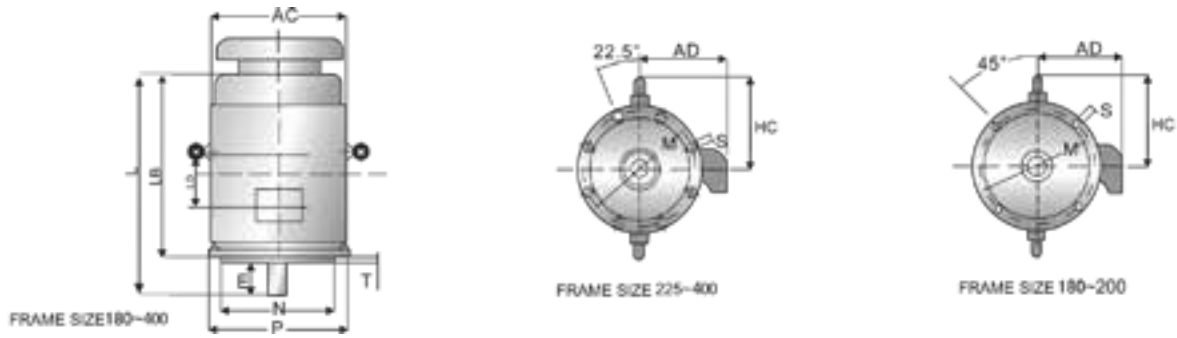
Frame Size	Dimensions (mm)																							
	A	AA	AB	AC	B	BB	C	H	HA	HC	HD	K	L		LA	LB	M	N	P	R	S	T	LD	
													2P		4,6,8P									
80	125	37	165	175	100	135	50	80 ⁰ _{-0.5}	13	170	220	10	295	13	245	165	130J6 ^(+0.014) _(-0.011)	200	0	4-Φ12	3.5	—		
90S	140	37	180	195	100	135	56	90 ⁰ _{-0.5}	13	190	250	10	320	13	260	165	130J6 ^(+0.014) _(-0.011)	200	0	4-Φ12	3.5	—		
90L	140	37	180	195	125	160	56	90 ⁰ _{-0.5}	13	190	250	10	345	13	285	165	130J6 ^(+0.014) _(-0.011)	200	0	4-Φ12	3.5	—		
100L	160	42	205	215	140	180	63	100 ⁰ _{-0.5}	15	—	270	12	385	15	320	215	180J6 ^(+0.014) _(-0.011)	250	0	4-Φ15	4	—		
112M	190	52	230	240	140	185	70	112 ⁰ _{-0.5}	17	—	300	12	400	15	340	215	180J6 ^(+0.014) _(-0.011)	250	0	4-Φ15	4	—		
132S	216	63	270	275	140	205	89	132 ⁰ _{-0.5}	20	—	345	12	470	16	395	265	230J6 ^(+0.016) _(-0.013)	300	0	4-Φ15	4	—		
132M	216	63	270	275	178	243	89	132 ⁰ _{-0.5}	20	—	345	12	510	16	435	265	230J6 ^(+0.016) _(-0.013)	300	0	4-Φ15	4	—		
160M	254	73	320	330	210	275	108	160 ⁰ _{-0.5}	22	—	420	15	615	18	490	300	250J6 ^(+0.016) _(-0.013)	350	0	4-Φ19	5	55		
160L	254	73	320	330	254	320	108	160 ⁰ _{-0.5}	22	—	420	15	670	18	535	300	250J6 ^(+0.016) _(-0.013)	350	0	4-Φ19	5	55		
180M	279	73	355	380	241	315	121	180 ⁰ _{-0.5}	24	—	455	15	700	20	560	300	250J6 ^(+0.016) _(-0.013)	350	0	4-Φ19	5	86		
180L	279	73	355	380	279	353	121	180 ⁰ _{-0.5}	24	—	455	15	740	20	600	300	250J6 ^(+0.016) _(-0.013)	350	0	4-Φ19	5	105		
200L	318	73	395	420	305	378	133	200 ⁰ _{-0.5}	27	—	505	19	770	22	665	350	300J6 ^(±0.016)	400	0	4-Φ19	5	102		
225S	356	83	435	470	286	382	149	225 ⁰ _{-0.5}	27	—	560	19	—	820	22	680	400	350J6 ^(±0.018)	450	0	8-Φ19	5	103	
225M	356	83	435	470	311	407	149	225 ⁰ _{-0.5}	27	—	560	19	815	845	22	705	400	350J6 ^(±0.018)	450	0	8-Φ19	5	116	
250M	406	88	490	510	349	458	168	250 ⁰ _{-0.5}	33	—	615	24	910	24	790	500	450J6 ^(±0.02)	550	0	8-Φ19	5	131		
280S	457	93	550	580	368	535	190	280 ⁰ _{-1.0}	38	—	680	24	985	24	860	500	450J6 ^(±0.02)	550	0	8-Φ19	5	168		
280M	457	93	550	580	419	586	190	280 ⁰ _{-1.0}	38	—	680	24	1035	24	910	500	450J6 ^(±0.02)	550	0	8-Φ19	5	193		
315S	508	120	635	645	406	610	216	315 ⁰ _{-1.0}	48	—	800	28	1185	1215	25	1060	600	550J6 ^(±0.022)	660	0	8-Φ24	6	205	
315M	508	120	635	645	457	660	216	315 ⁰ _{-1.0}	48	—	800	28	1295	1325	25	1120	600	550J6 ^(±0.022)	660	0	8-Φ24	6	240	
315L	508	120	635	645	508	740	216	315 ⁰ _{-1.0}	48	—	800	28	1295	1325	25	1120	600	550J6 ^(±0.022)	660	0	8-Φ24	6	240	
355M	610	120	730	710	560	750	254	355 ⁰ _{-1.0}	52	—	950	28	1500	1530	30	1300	740	680J6 ^(±0.025)	800	0	8-Φ24	6	350	
355L	610	120	730	710	630	750	254	355 ⁰ _{-1.0}	52	—	950	28	1500	1530	30	1300	740	680J6 ^(±0.025)	800	0	8-Φ24	6	350	
400M	686	120	806	856	630	1090	280	400 ⁰ _{-1.0}	45	—	1010	35	—	1920	25	1710	940	880J6 ^(±0.028)	1000	0	8-Φ28	—	435	
400L	686	120	806	856	710	1090	280	400 ⁰ _{-1.0}	45	—	1010	35	—	1920	25	1710	940	880J6 ^(±0.028)	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 ^(+0.014) _(-0.011)	200	0	4-Φ12	3.5	—
90S	195	155	—	315		13	260	165	130J6 ^(+0.014) _(-0.011)	200	0	4-Φ12	3.5	—
90L	195	155	—	340		13	285	165	130J6 ^(+0.014) _(-0.011)	200	0	4-Φ12	3.5	—
100L	215	180	145	385		15	320	215	180J6 ^(+0.014) _(-0.011)	250	0	4-Φ15	4	—
112M	240	190	160	400		15	340	215	180J6 ^(+0.014) _(-0.011)	250	0	4-Φ15	4	—
132S	275	210	178	470		16	395	265	230J6 ^(+0.016) _(-0.013)	300	0	4-Φ15	4	—
132M	275	210	178	510		16	435	265	230J6 ^(+0.016) _(-0.013)	300	0	4-Φ15	4	—
160M	330	255	215	615		18	490	300	250J6 ^(+0.016) _(-0.013)	350	0	4-Φ19	5	55
160L	330	255	215	670		18	535	300	250J6 ^(+0.016) _(-0.013)	350	0	4-Φ19	5	55
180M	380	280	250	700		20	560	300	250J6 ^(+0.016) _(-0.013)	350	0	4-Φ19	5	86
180L	380	280	250	740		20	600	300	250J6 ^(+0.016) _(-0.013)	350	0	4-Φ19	5	105
200L	420	305	280	770		22	665	350	300J6 ^(±0.016)	400	0	4-Φ19	5	102
225S	470	335	298	—	815	22	680	400	350J6 ^(±0.018)	450	0	8-Φ19	5	103
225M	470	335	298	820	845	22	705	400	350J6 ^(±0.018)	450	0	8-Φ19	5	116
250M	510	370	330	910		24	790	500	450J6 ^(±0.02)	550	0	8-Φ19	5	131
280S	580	410	370	985		24	860	500	450J6 ^(±0.02)	550	0	8-Φ19	5	168
280M	580	410	370	1035		24	910	500	450J6 ^(±0.02)	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 ^(+0.018/+0.002)	110	14	42.5	9	500	300	250J6 ^(+0.016/-0.013)	350	0	4-Φ19	5	86							
180L	380	280	792	20	682	48K6 ^(+0.018/+0.002)	110	14	42.5	9	500	300	250J6 ^(+0.016/-0.013)	350	0	4-Φ19	5	105							
200L	420	305	831	22	721	55M6 ^(+0.03/+0.011)	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 ^(+0.03/+0.011)	60M6 ^(+0.03/+0.011)	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 ^(+0.03/+0.011)	65M6 ^(+0.03/+0.011)	140	18	53	58	11	650	500	450J6 (±0.02)	550	0	8-Φ19	5	131					
280S	580	410	1065	24	925	65M6 ^(+0.03/+0.011)	75M6 ^(+0.03/+0.011)	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 ^(+0.03/+0.011)	75M6 ^(+0.03/+0.011)	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 ^(+0.03/+0.011)	80M6 ^(+0.03/+0.011)	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 ^(+0.03/+0.011)	80M6 ^(+0.03/+0.011)	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 ^(+0.03/+0.011)	80M6 ^(+0.03/+0.011)	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 ^(+0.03/+0.011)	95M6 ^(+0.035/+0.013)	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 ^(+0.03/+0.011)	95M6 ^(+0.035/+0.013)	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 ^(+0.035/+0.013)	—	210	—	28	—	100	—	16	1010	940	880J6 (±0.028)	1000	0	8-Φ28	6	435	
400L	856	690	—	1920	25	1710	—	110M6 ^(+0.035/+0.013)	—	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 ^(+0.009) _(-0.004)		40		6		15.5		6	
90S	24J6 ^(+0.009) _(-0.004)		50		8		20		7	
90L	24J6 ^(+0.009) _(-0.004)		50		8		20		7	
100L	28J6 ^(+0.009) _(-0.004)		60		8		24		7	
112M	28J6 ^(+0.009) _(-0.004)		60		8		24		7	
132S	38K6 ^(+0.018) _(+0.002)		80		10		33		8	
132M	38K6 ^(+0.018) _(+0.002)		80		10		33		8	
160M	42K6 ^(+0.018) _(+0.002)		110		12		37		8	
160L	42K6 ^(+0.018) _(+0.002)		110		12		37		8	
180M	48K6 ^(+0.018) _(+0.002)		110		14		42.5		9	
180L	48K6 ^(+0.018) _(+0.002)		110		14		42.5		9	
200L	55M6 ^(+0.03) _(+0.013)		110		16		49		10	
225S	60M6 ^(+0.03) _(+0.011)		—	140	—	18	—	53	—	11
225M	55M6 ^(+0.03) _(+0.011)	60M6 ^(+0.03) _(+0.011)	110	140	16	18	49	53	10	11
250M	60M6 ^(+0.03) _(+0.011)	65M6 ^(+0.03) _(+0.011)	140		18		53	58		11
280S	65M6 ^(+0.03) _(+0.011)	75M6 ^(+0.03) _(+0.011)	140		18	20	58	67.5	11	12
280M	65M6 ^(+0.03) _(+0.011)	75M6 ^(+0.03) _(+0.011)	140	140	18	20	58	67.5	11	12
315S	65M6 ^(+0.03) _(+0.011)	80M6 ^(+0.03) _(+0.011)	140	170	18	22	58	71	11	14
315M	65M6 ^(+0.03) _(+0.011)	80M6 ^(+0.03) _(+0.011)	140	170	18	22	58	71	11	14
315L	65M6 ^(+0.03) _(+0.011)	80M6 ^(+0.03) _(+0.011)	140	170	18	22	58	71	11	14
355M	75M6 ^(+0.03) _(+0.011)	95M6 ^(+0.035) _(+0.013)	140	170	20	25	67.5	86	12	14
355L	75M6 ^(+0.03) _(+0.011)	95M6 ^(+0.035) _(+0.013)	140	170	20	25	67.5	86	12	14
400M	—	110M6 ^(+0.035) _(+0.013)	—	210	—	28	—	100	—	16
400L	—	110M6 ^(+0.035) _(+0.013)	—	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 ^(+0.009) _(-0.004)		40		6		15.5		6	
90S	24F165		24J6 ^(+0.009) _(-0.004)		50		8		20		7	
90L	24F165		24J6 ^(+0.009) _(-0.004)		50		8		20		7	
100L	28F215		28J6 ^(+0.009) _(-0.004)		60		8		24		7	
112M	28F215		28J6 ^(+0.009) _(-0.004)		60		8		24		7	
132S	38F265		38K6 ^(+0.018) _(+0.002)		80		10		33		8	
132M	38F265		38K6 ^(+0.018) _(+0.002)		80		10		33		8	
160M	42F300		42K6 ^(+0.018) _(+0.002)		110		12		37		8	
160L	42F300		42K6 ^(+0.018) _(+0.002)		110		12		37		8	
180M	48F300		48K6 ^(+0.018) _(+0.002)		110		14		42.5		9	
180L	48F300		48K6 ^(+0.018) _(+0.002)		110		14		42.5		9	
200L	55F350		55M6 ^(+0.03) _(+0.011)		110		16		49		10	
225S	—	60F400	—	60M6 ^(+0.03) _(+0.011)	—	140	—	18	—	53	—	11
225M	55F400	60F400	55M6 ^(+0.03) _(+0.011)	60M6 ^(+0.03) _(+0.011)	110	140	16	18	49	53	10	11
250M	60F500	65F500	60M6 ^(+0.03) _(+0.011)	65M6 ^(+0.03) _(+0.011)	140		18		53	58		11
280S	65F500	75F500	65M6 ^(+0.03) _(+0.011)	75M6 ^(+0.03) _(+0.011)	140		18	20	58	67.5	11	12
280M	65F500	75F500	65M6 ^(+0.03) _(+0.011)	75M6 ^(+0.03) _(+0.011)	140		18	20	58	67.5	11	12



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