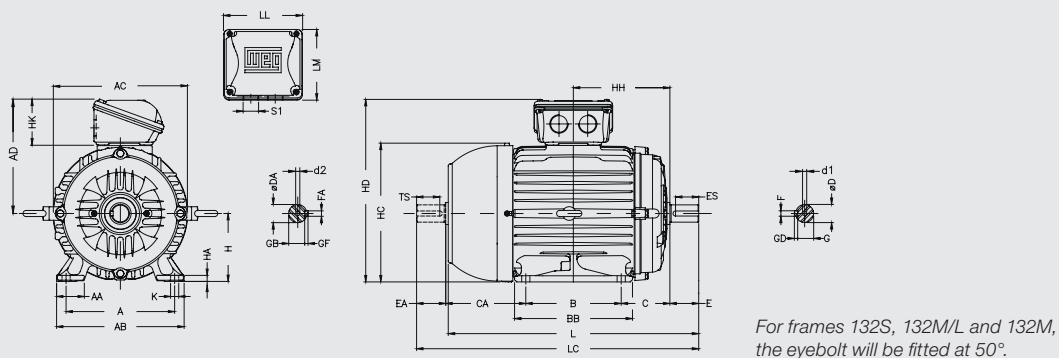


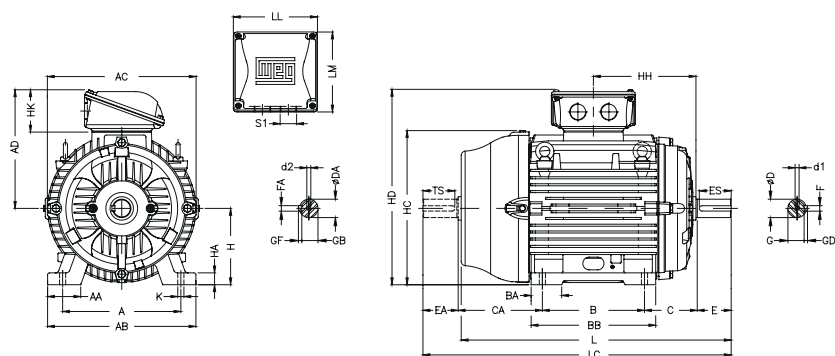
18. Mechanical Data

Foot Mounted Motors, Terminal Box Top

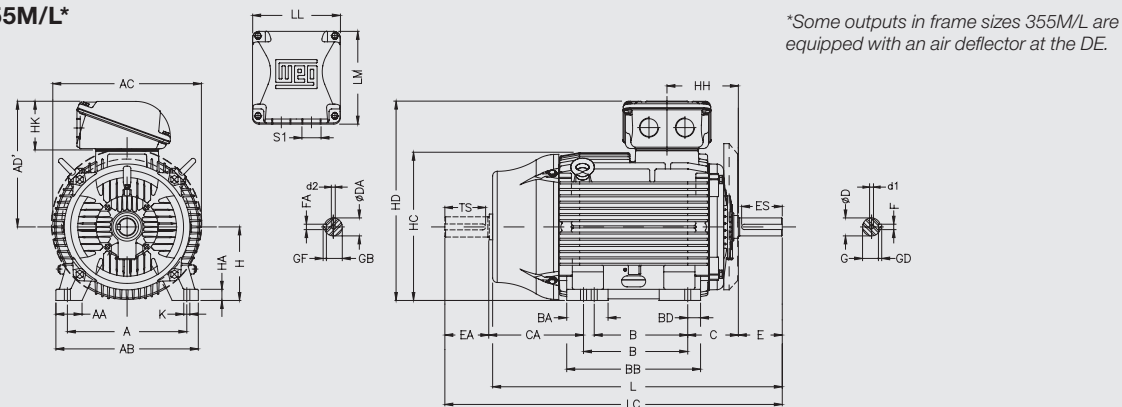
Frames 63 to L132M/L



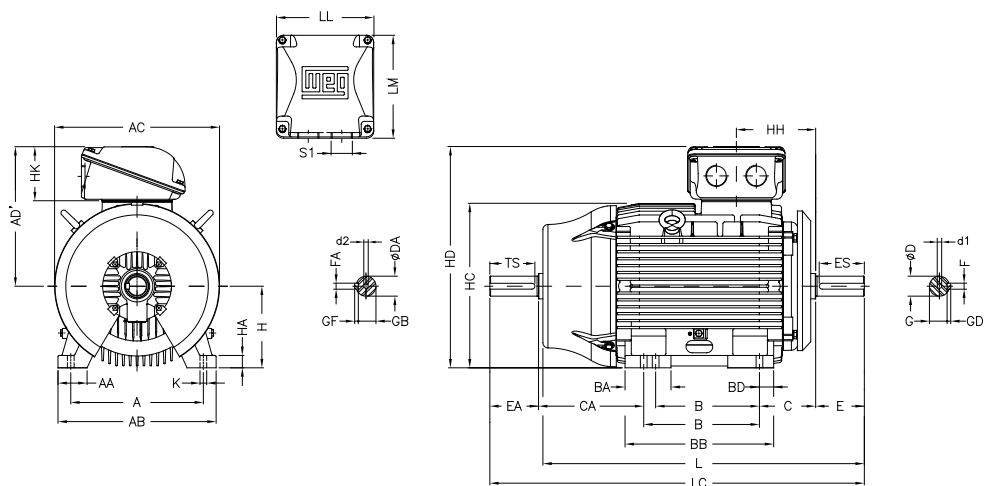
Frames 160M to 200L



Frames 225 to 355M/L*



Frame 355A/B



Frame	A	AA	AB	AC	AD	AD'	B	BA	BB	BD	C	CA	DE Shaft end						NDE Shaft end																															
													D	E	ES	F	G	GD	DA	EA	FA	TS	GB	GF																										
63	100	25,5	116	125	123	-	80	-	95	-	40	78	11j6	23	14	4	8,5	4	9j6	20	3	12	7,2	3																										
71	112	28,5	132	141	131		90		113,5		45	88	14j6	30	18	5	11	5	11j6	23	4	14	8,5	4																										
80	125	30,5	149	159	140		100		125,5		131	56	135	24j6	50	36	8	20	7	16j6	40	5	18	11	5																									
L80																										93	19j6	40	28	6	15,5	6	14j6	30																
90S																										118	28j6	60	45	24	22j6	50	36	18,5	6															
L90S																																																		
L90L	140	37	164	179	149									125	156	63				118	28j6		60	45		8	24	7	22j6	40	50	6	36	18,5	6															
L100L																																																		
L112M																																				190	40,5	220	226	192	140	177	70	128	158	24j6	50	36	18,5	6
L122M																																																		
L132S	216	45,5	248	272	220									178	225	89				150	38k6		80	63		10	33	8	28j6	60	8	45	24	7																
L132M																																																		
L132M/L							254		44		292	329	266				210	254	108			174			42k6										12	37	8	42k6	12	37	8	42k6	12	37	8					
L160M																																																		
L160L	279	57	329	360	281									241	294	121				200	48k6		110	80		14	42,5	9	48k6	110	14	80	42,5	9																
L180M																																																		
L180L							318		82		385	402	319				279	332	133			222			55m6										16	49	10	55m6	16	100	49	10								
L180L																																																		
200L	356	80	436	455	384									286/311	124	412				41	149		319/294	55m6		100	16	49	10	55m6	16	100	49	10																
225S/M*																																																		
225S/M						406	100	506	486	398	311/349	146	467				59	168	354/316			60m6			140										125	18	53	11	60m6	140	18	125	53	11						
250S/M*																																																		
250S/M	457	557	599	472	368/419									151	517	49				190	385/334		65m6	75m6		140	125	18	58	11	60m6	140	18	125											58	11				
280S/M*																																																		
280S/M						508	120	630	657	530	406/457	184	626				70	216	443/494			65m6			140										125	18	58	11	60m6	140	18	125	58	11						
315S/M*																																																		
315S/M	576	508	219	752	81									216	502	65m6				140	125		18	58		11	60m6	140	18	125	58	11																		
315L*																																																		
315L						610	140	750	736	620	560/630	230	760				65	254	483/413			75m6			140								125	20	67,5	12	60m6	170	22	160	71	14								
355M/L*																																																		
355M/L	728	710/800	325	965	70									254	528/438	100m6				210	200		28	90		16	80m6	140	18	125	53	11																		
355A/B*																																																		
355A/B																																																		

Frame	H	HA	HC	HD	HH	HK	L	LC	LL	LM	S1	K	D1	D2	Bearing																			
															DE	NDE																		
63	63	7	130	186	80	59	216	241	108	98	2xM20x1,5	7	EM4	EM3	6201 ZZ	6201 ZZ																		
71	71		145	202	90		250	276					DM5	EM4	6202 ZZ	6202 ZZ																		
80	80		8	163	220		100	277					313	DM6	DM5	6204 ZZ	6203 ZZ																	
L80	90	9	182	239	106		301	338			2xM25x1,5	10	DM8	DM6	6205 ZZ	6204 ZZ																		
90S							305	350																										
L90S							334	381																										
90L							329	375																										
L90L							360	406																										
100L							376	431																										
L100L	100	10	203	259	133		414	475			2xM32x1,5	12	DM10	DM8	6206 ZZ	6205 ZZ																		
112M	112		226	304	140	394	448	6207 ZZ	6206 ZZ																									
L112M						429	478																											
132S	132		16	274	352	159	452	519	2xM40x1,5	14,5					DM16	DM16	6309 ZZ-C3	6209 ZZ-C3																
L132S		476					544	198,5			190	2xM50x1,5	18,5	DM20					DM20	6314 C3	6314 C3													
132M		489					557																											
132M/L		515					582																											
L132M/L		538,5					607																											
160M		160					17															331	426	213	598	712	2xM63x1,5	24	DM20	DM20	6316 C3	6316 C3		
160L	180	19	366	461	235	642	756		2xM80x2	28					DM24	DM24	6322 C3	6319 C3																
L160L					676	790																												
180M					241,5	664	782	220			1412	1577	404	436					DM20	DM20	6316 C3	6314 C3												
L180M					260,5	706	824				1482	1677											460	544	DM24	DM24							6322 C3	6319 C3
180L						702	820																											
L180L						744	862																											
200L	200	30	407	519		285,5	120		767	880					230	220	2xM50x1,5	18,5									DM20	DM20	6312 ZZ-C3	6212 ZZ-C3				
225S/M*	225	34	453	609	212	153	856		974	269	285	2xM63x1,5			28	DM20							DM20	6314 C3	6314 C3									
225S/M	250	43	493	648	214	153	886	1034																										
250S/M*							250S/M	280S/M*	280S/M	280	42	580	752	266	152	1071			1223	314	312	2xM80x2	28	DM20	DM20	6316 C3					6314 C3			
315S/M*	315	48	644	845	264	176	1244	1392	220	404	436	DM20	DM20	6316 C3	6314 C3																			
315S/M							1274	1426																										
315L*							1355	1506																										
315L							1385	1536																										
355M/L*	355	50	723	975	339	220	1412	1577	460	544	DM20	DM20	6316 C3	6314 C3																				
355M/L							1482	1677																										
355A/B*							1607	1772																										
355A/B							1677	1872																										

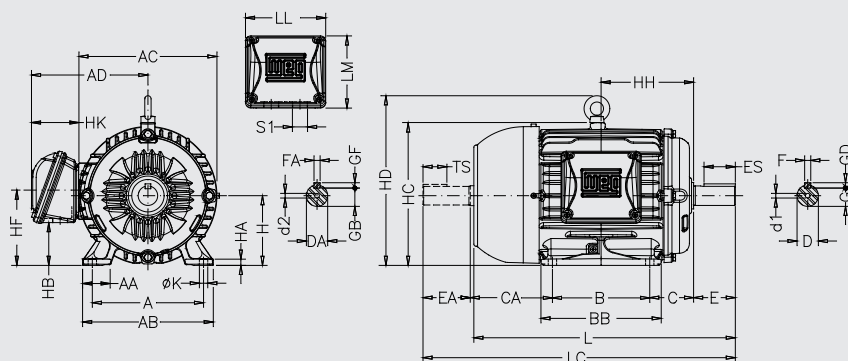
Notes:

(*) Dimension applicable to 2 pole motors.

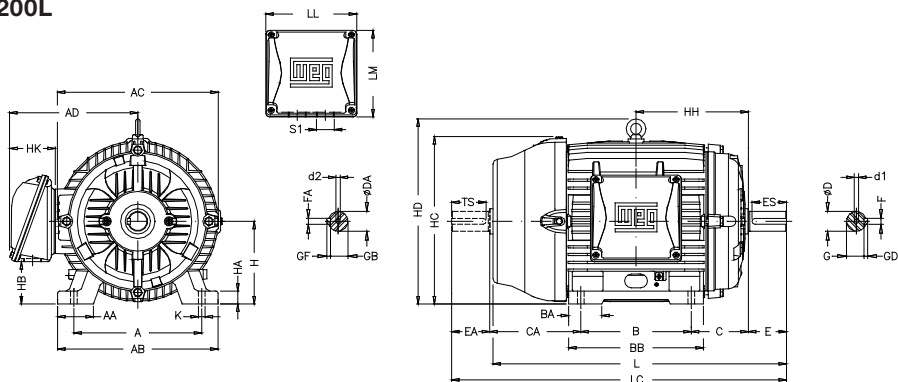
(**) All dimensions are in mm.

Foot mounted motors, Terminal Box Left or Right Side

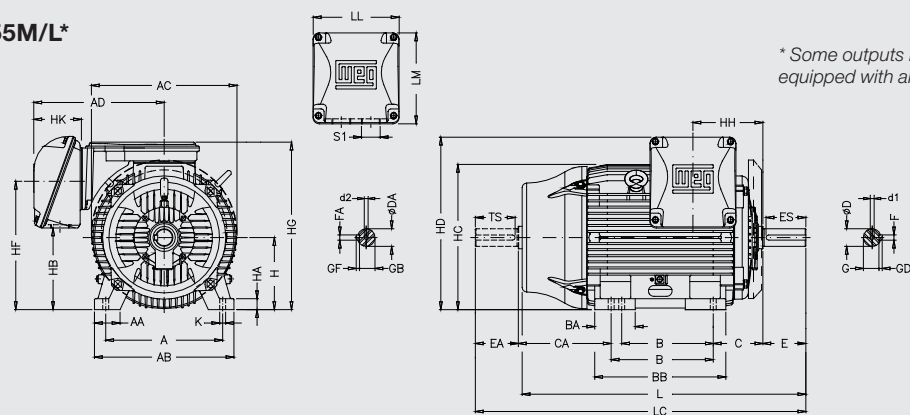
Frames 63 to 132M/L



Frames 160M to 200L

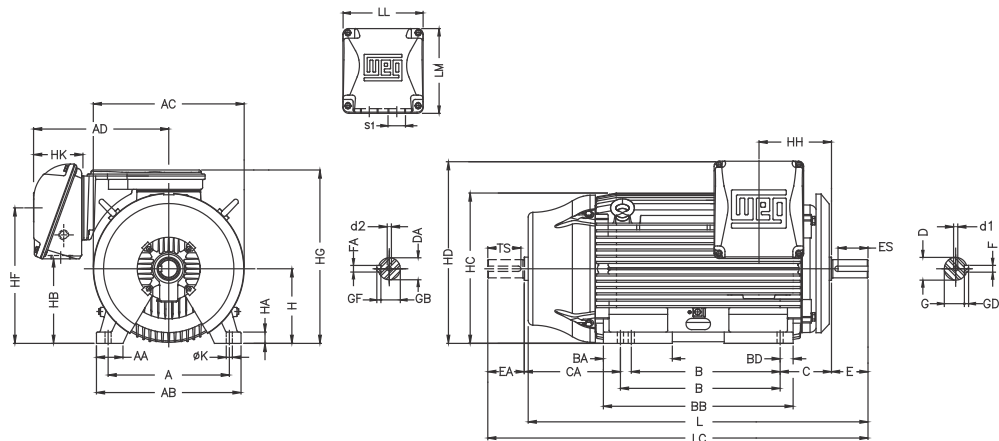


Frames 225 to 355M/L*



* Some outputs in frame sizes 355M/L are equipped with an air deflector at the DE.

Frame 355A/B



Frame	A	AA	AB	AC	AD	B	BA	BB	BD	C	CA	DE Shaft						NDE Shaft																			
										D	E	ES	F	G	GD	DA	EA	TS	FA	GB	GF																
63	100	25,5	116	125	123	80		95		40	78	11j6	23	14	4	8,5	4	9j6	20	12	3	7,2	3														
71	112	28,5	132	141	131	90		113,5		45	88	14j6	30	18	5	11	5	11j6	23	14	4	8,5	4														
80	125	30,5	149	159	140	100		125,5		50	93 142	19j6	40	28	6	15,5	6	14j6	30	18	5	11	5														
L80								131		56	135	24j6	50	36	8	20	16j6	40	28	6				18,5	6												
90S																																					
L90S																																					
90L	140	37	164	179	149	125		156		63	118 162	28j6	60	45	8	24	7	22j6	50	36	6	18,5	6														
L90L	160	40	188	206	159	140		177		70	128 158																										
100L																																					
L100L																																					
112M																																					
L112M	190	40,5	220	226	192	140		187	89	150	38k6	80	63	10	33	8	28j6	60	45	8	24	7															
132S	216	45,5	248	272	220			178	225	250	108	174	42k6	12	37		42k6	110	80				140	125	18	53	58										
L132S																																					
132M																																					
132M/L																																					
L132M/L	254	44	292	329	266			178/203	254	298	121	200	48k6	110	80	14	42,5	9	48k6	110	80	14	42,5	9													
160M																																					
160L																																					
L160L																																					
180M	279	57	329	360	281			241	294	332	133	222	55m6	100	16	49	10	55m6	140	125	18	53	58														
L180M																																					
180L																																					
L180L																																					
200L	318	82	385	402	319	305	82	370	41	149	319/294	140	125	18	53	11	60m6	140	125	18	53	58															
225S/M*	356	80	436	455	410	286/311	124	412															146	467	59	168	354/316	65m6	75m6	20	67,5	12	65m6	140	125	18	53
225S/M																																					
250S/M*																																					
250S/M																																					
280S/M*	406	100	506	486	311/349	146	467	59															168	354/316	65m6	75m6	20	67,5	12	65m6	140	125	18	53	58		
280S/M																																					
280S/M																																					
315S/M*																																					
315S/M	508	120	630	657	525	406/457	184	626															70	216	494/443	170	160	22	71	14	65m6	140	125	18	53	58	
315L*																																					
315L																																					
355M/L*																																					
355M/L	610	140	750	736	609	560/630	230	760	65	254	483/413	210	200	28	90	16	80m6	170	160	22	71	14															
355A/B*																																					
355A/B																																					

Frame	H	HA	HB	HC	HD	HF	HG	HH	HK	LL	LM	K	L	LC	S1	d1	d2	Bearing	
																		DE	NDE
63	63		25,5	130	156,3	68,5		80				7	216	241		EM4	EM3	6201 ZZ	6201 ZZ
71	71	7	33	145	163,8	76		90					250	276	2xM20x1,5	DM5	EM4	6202 ZZ	6202 ZZ
80	80	8	43,5	163	174,3	87		100					277	313		DM6	DM4	6204 ZZ	6203 ZZ
L80													301	360					
90S								106	59	108	98	10	305	350					
L90S													334	381					
90L	90	9	45	182	182,4	90		118,5					329	375	2xM25x1,5	DM8	DM6	6205 ZZ	6204 ZZ
L90L													360	406					
100L													376	431					
L100L	100		61,5	205	244	106,4		133					414	475		DM10	DM8	6206 ZZ	6205 ZZ
112M		10											394	448				6207 ZZ	6206 ZZ
L112M	112		54,5	235	280	112		140					429	478					
132S								159	80	140	133	12	452	519	2xM32x1,5				
L132S								178					476	544		DM12	DM10	6308 ZZ	6207 ZZ
132M	132	16	75	274	319	132		190,5					489	557					
L132M/L								213					515	582					
160M								235					538,5	607					
L160L	160	17	79	331	380								598	712	2xM40x1,5	DM16	DM16	6309 ZZ-C3	6209 ZZ-C3
180M								241,5	101	198,5	190	14,5	642	756				6311 ZZ-C3	6211 ZZ-C3
L180M													676	790				6311 C3	6211 Z-C3
180L	180	19	92	366	413			260,5					706	824				6311 ZZ-C3	6211 ZZ-C3
L180L													702	820				6312 ZZ-C3	6212 ZZ-C3
200L	200	30	119	407	464			285,5	119,5	230	220		744	862					
225S/M*												18,5	767	880	2xM50x1,5				
225S/M	225	34	254	453	541	421	534	212					856	974					
250S/M*									153	269	285		886	1034					
250S/M	250	43	297	493	583	463	577	214				24	965	1113				6314 C3	6314 C3
280S/M*																			
280S/M	280	42		580	700	572	686	266	152	314	312		1071	1223	2xM63x1,5	DM20	DM20	6316 C3	6316 C3
315S/M*			386										1244	1392				6319 C3	6319 C3
315S/M													1274	1426				6319 C3	6319 C3
315L*	315	48		644									1355	1506				6319 C3	6316 C3
315L			336			774	575	760	285				1385	1536				6319 C3	6316 C3
355M/L*										220	404	436	1412	1577		DM20		6316 C3	6314 C3
355M/L													1482	1677		DM24		6322 C3	6319 C3
355A/B*	355	50	461	723			700	885					1607	1772	2xM80x2	DM20		6316 C3	6314 C3
355A/B			411			949				340	328	460	1677	1872		DM24		6322 C3	6319 C3

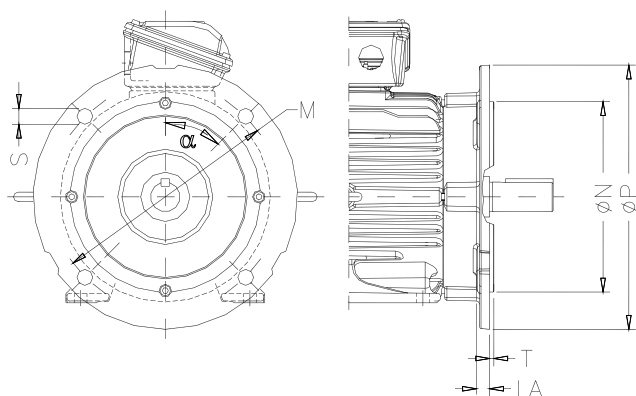
Notes:

(*) Dimension applicable to 2 pole motors.

(**) All dimensions are in mm.

Flange Mounted Motors

“FF” Flange

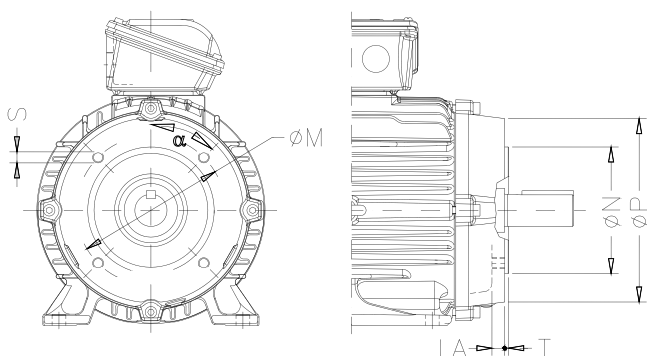


Frame	Flange	LA	M	N	P	S	T	α	N° of holes
63	FF-115	5,5	115	95	140	10	3	45°	4
71	FF-130	7	130	110	160		3,5		
80	FF-165	9	165	130	200	12			
90		10							
100	FF-215	12,5	215	180	250	15	4		
112									
132	FF-265	12	265	230	300	19	5	22°30'	8
160	FF-300	18	300	250	350				
180			350	300	400				
200	FF-350		400	350	450				
225	FF-400		400	350	450				
250	FF-500	20	500	450	550	24	6		
280		18							
280	FF-600	22	600	550	660/780*	24	6		
315S/M		16							
315L	FF-740	22	740	680	800/880*				
355									

*Only for motors fitted with air deflector in drive end side.

** Dimensions are in mm.

“C-DIN” Flange



Frame	Flange	LA	M	N	P	S	T	α	N° of holes
63	C-90	9,5	75	60	90	M5	2,5	45°	4
71	C-105	8	85	70	105	M6			
80	C-120	10,5	100	80	120		3		
90	C-140	10,5	115	95	140	M8			
100	C-160	12	130	110	160		3,5		
112		13,5							
132	C-200	15,5	165	130	200		M10		

* Dimensions are in mm.