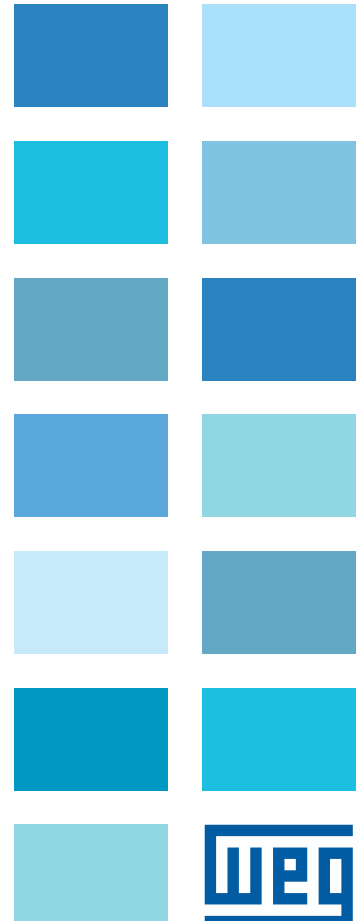
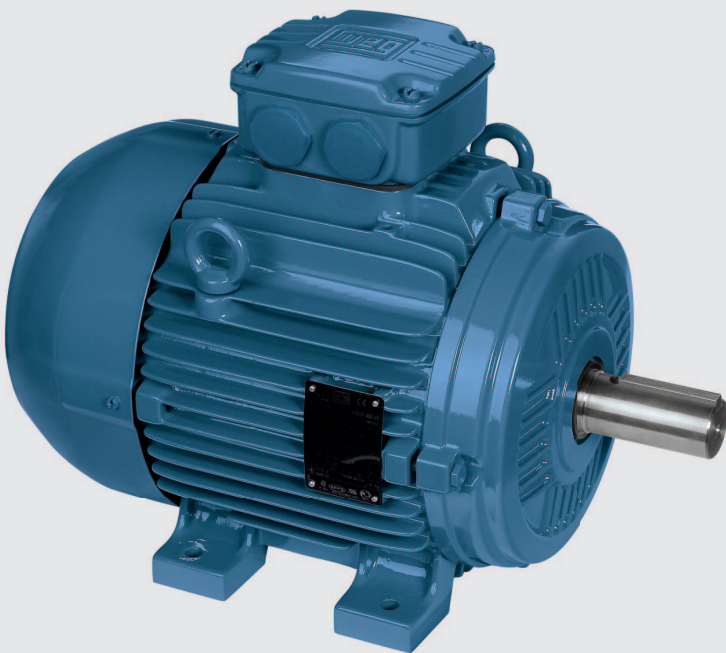
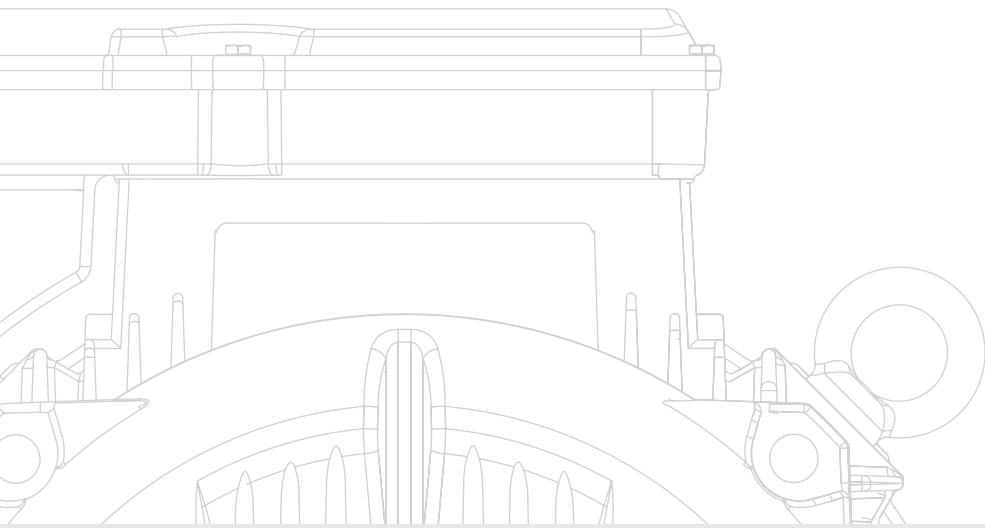


**W21**

South Korea

고효율 삼상유도 전동기



## W21 고효율 삼상 유도 전동기

### 최저소비효율 기준 적용대상

삼상 유도전동기 중 보호형 또는 반폐형 타입으로 정상적인 사용조건하에서 주파수 60Hz, 전압 600V이하의 일반용 저압 삼상 유도전동기에 해당한다. 극수는 및 정격 출력은 2극, 4극으로서 0.75kw-200kw, 6극 0.75kw-160kw, 8극 0.75kw-110kw에 해당한다.

적용대상외로는 전폐자냉형(TENV) 전동기와 같은 기본요건을 만족하나 범용으로는 사용될 수 없는 특수 목적의 전동기, 스러스트 베어링 적용 전동기와 같은 기본요건을 만족하는 특수목적 전동기, 멀티스피드 전동기와 같은 기본요건을 만족하지 않는 전동기가 해당된다.

전폐타냉형(TEA0) = 외부원으로부터 기류를 필요로하는 전폐 Air Over  
 전폐자냉형(TENV) = 냉각용 장비가 없는 전폐 비통풍

삼상 유도전동기 중 적용대상에 속하며 최저소비효율 기준에 미달한 제품은 생산, 판매에 제한을 받게된다.

### 최저소비효율기준

효율관리기자재의 효율 개선 및 고효율 제품 보급 확대를 위하여 일정 효율수준 이하 또는 일정 소비전력량 수준 이상 제품의 생산 판매를 제한하고자 효율관리기자재 운용(지식 경제부 고시)에서 설정한 최저소비효율을 따른다.(표1 참조)

효율은 KS C IEC 61972의 규정에 의하여 측정된 전부하효율(%)을 의미한다. 효율관리기자재의 소비효율 측정을 위해 효율관리 시험기관에 시험을 의뢰하며 시험기관에서 성적서를 발급 받아 에너지관리 공단에 신고한다.

### WEG 고효율 모터

WEG에서는 W21 SK 모델의 프레임 사이즈 60 r 355, 극수 2극, 4극 6극으로 최저소비효율을 만족하는 제품 국내 인증 및 생산(자세한 내용은 모터 특성표 확인).

표 1 r 최저소비효율기준(%)

정격출력	전폐형		
	2 극	4 극	6 극
0.75 kW	75.5	82.5	80.0
1.5 kW	84.0	84.0	86.5
2.2 kW	85.5	87.5	87.5
3.7 kW	87.5	87.5	87.5
5.5 kW	88.5	89.5	89.5
7.5 kW	89.5	89.5	89.5
11 kW	90.2	91.0	90.2
15 kW	90.2	91.0	90.2
18.5 kW	91.0	92.4	91.7
22 kW	91.0	92.4	91.7
30 kW	91.7	93.0	93.0
37 kW	92.4	93.0	93.0
45 kW	93.0	93.6	93.6
55 kW	93.0	94.1	93.6
75 kW	93.6	94.5	94.1
90 kW	94.5	94.5	94.1
110 kW	94.5	95.0	95.0
132 kW	94.5	95.0	95.0
160 kW	95.0	95.0	95.0
200 kW	95.0	95.0	-

60 Hz, 주위온도 40° C기준임.



## 제품 사양

Frame			80	90	100	112	132	160	180	200	225S/M	250S/M	280S/M	315S/M	355M/L		
<b>Mechanical Features</b>																	
Name Plate Marks:			KS C 4202; CE; IEC 60034;														
Mounting			B3R(E)														
Frame	Material		IRON														
Protection Degree			IP55														
Grounding			Grounding Internal in the Terminal Box									Double Grounding (Internal in the Terminal Box and on the Frame)					
Cooling System			TEFC														
Fan	Material	2-4P	Plastic									Alumínio					
		6-8P	Plastic									Alumínio					
Fan Cover	Material		Steel Plate						Cast Iron FC-200								
End Shields	Material		Cast Iron														
Drain			Plastic and Automatic														
Bearings	Closed/Front Clearance											C3					
	Closed/Rear Clearance								Z-C3			C3					
	Clamping								Clamping the front bearing with internal fixation ring and using wave washer in the rear bearing.			Clamping the front bearing with internal/ external fixation ring and using pre load in the rear bearing.					
	Front side	2p	6204	6205	6206	6207	6308	6309	6311	6312	6314	6314	6314	6314	6316		
		4 - 8p											6316	6319	6322		
	Rear side	2p	6203	6204	6205	6206	6207	6209	6211	6212			6314	6314	6314		
4 - 8p		6316											6316	6319			
Bearing Sealing			V'ring														
Joint Sealing																	
Regreasing	Grease		Polirex EM														
	Grease Nipple											Com pino graxeiro					
Terminal Block			BMC 6 Terminals														
Terminal Box	Material		Cast Iron														
Additional Terminal Box																	
Cable Entrance	Main	Size	2xM20x1.5	2xM25x1.5	2xM32x1.5	2xM40x1.5	2xM50x1.5	2xM63x1.5									
	Plug		Plastic and Threaded Plug														
Shaft	Material		SAE 1040/45												4140		
	Threaded Hole	2p	A3.15	A4	A4	A4	A4	A4	A4	A4	A4	M20	M20	M20	M20	M20	
4 - 8p		M24															
Key			Kind A									Kind B					
Vibration			Degree A														
Balancing			Standard Balance with 1/2 Key														
Name Plate	Material		Stainless Steel 316														
Painting	Plan		207A						201A								
	Color		RAL 6002														
<b>Electrical Features</b>																	
Design			N														
Voltage			380 V 6 Terminals														
Winding	Material		Copper														
	Impregnation		Dip									Continuous Flow					
	Insulation Class		F														
Service Factor			1,15														
Rotor			Squirrel Cage of Aluminum														
Thermal Protection			Thermistor 155°C Shutdown														

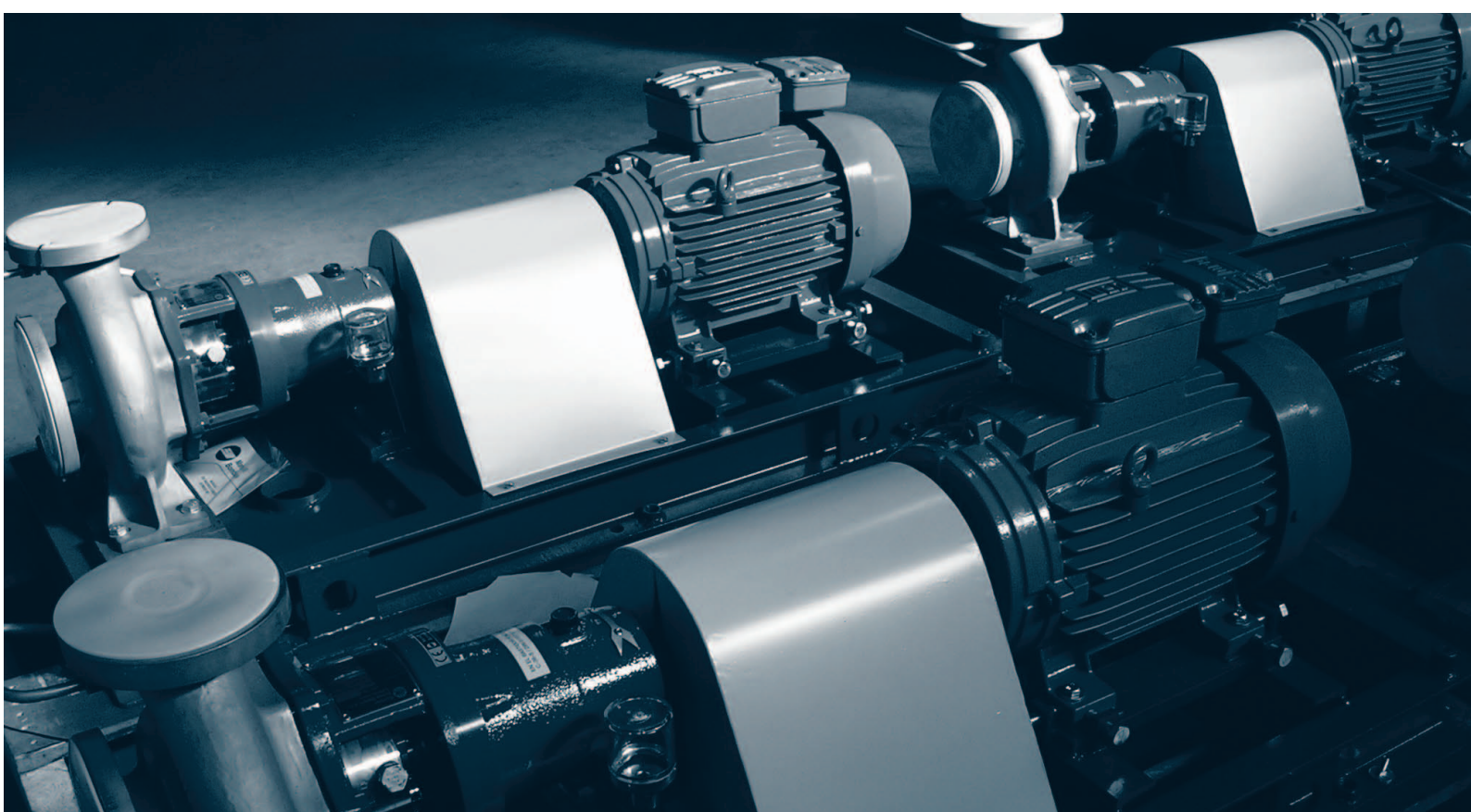
# 전동기 특성표

Output		Frame	Full Load Torque (Nm)	Locked Rotor Current II/In	Locked Rotor Torque TI/Tn	Break-down Torque Tb/Tn	Inercia J (kgm2)	Allowable locked rotor time (s)		Weight (kg)	Sound dB(A)	380 V						Full load currente In (A)	
								Rated speed (rpm)	% of full load			Power Factor							
									Efficiency			Power Factor							
kW	HP							Hot	Cold			50	75	100	50	75	100		
II Pole - 3200 rpm - 60 Hz																			
0,75	1	80	2,10	7,0	3,0	3,4	0,00079	14	31	14,0	62	3410	75,0	80,0	81,1	0,74	0,83	0,86	1,63
1,5	2	90L	4,14	7,0	2,7	3,0	0,002	15	33	19,0	68	3460	81,7	83,7	84,0	0,69	0,80	0,85	3,19
2,2	3	90L	6,08	7,3	2,9	3,0	0,002	11	24	20,0	68	3460	83,1	85,0	85,5	0,64	0,76	0,83	4,71
3,7	5	112M	10,1	8,7	2,7	3,3	0,007	15	33	40,0	69	3500	84,2	86,6	87,6	0,74	0,83	0,87	7,35
5,5	7,5	132S	14,9	7,5	2,4	3,2	0,018	21	46	58,0	72	3520	85,5	87,5	88,6	0,68	0,78	0,84	11,2
7,5	10	132S	20,4	7,5	2,3	3,0	0,024	20	44	65,0	72	3515	88,2	89,5	89,6	0,77	0,85	0,88	14,5
11	15	160M	29,8	6,7	2,1	2,3	0,038	15	33	106	75	3530	88,7	90,0	90,5	0,75	0,84	0,87	21,2
15	20	160M	40,5	7,5	2,3	3,1	0,053	16	35	119	75	3540	90,5	92,0	92,0	0,71	0,81	0,86	28,8
18,5	25	160L	50,1	8,2	2,2	3,0	0,059	12	26	119	75	3530	91,7	92,0	92,0	0,73	0,81	0,85	36,0
22	30	180M	59,2	8,1	2,2	3,0	0,093	18	40	160	75	3550	91,3	92,0	92,0	0,74	0,83	0,87	41,7
30	40	180L	81,0	7,0	2,0	2,8	0,120	16	35	180	75	3540	92,2	92,5	92,5	0,82	0,88	0,90	54,8
37	50	200L	99,3	7,6	2,7	3,0	0,213	41	90	270	81	3560	92,2	93,5	93,5	0,74	0,83	0,87	68,9
45	60	200L	121	7,3	2,2	2,5	0,212	33	73	270	81	3555	92,9	93,5	93,5	0,78	0,85	0,88	83,4
55	75	225S/M	147	8,5	2,6	3,6	0,395	17	37	384	85	3565	92,6	93,6	93,8	0,79	0,86	0,89	100
75	100	250S/M	201	8,4	2,8	3,5	0,502	12	26	462	85	3565	93,5	94,3	94,3	0,82	0,88	0,90	134
90	125	250S/M	241	8,5	2,7	3,0	0,565	13	29	575	85	3565	93,7	94,5	94,5	0,85	0,88	0,90	161
110	150	280S/M	294	7,5	2,1	2,9	1,27	25	55	735	86	3570	93,0	94,5	94,6	0,80	0,86	0,89	199
132	175	280S/M	353	7,5	2,0	2,6	1,41	17	37	820	86	3570	93,0	94,5	94,8	0,82	0,88	0,89	238
160	220	315S/M	429	7,0	2,2	2,6	1,75	15	33	970	89	3565	94,2	95,0	95,0	0,85	0,88	0,90	284
185	250	315S/M	494	8,5	2,9	3,3	2,12	17	37	1077	89	3575	95,0	95,4	95,5	0,81	0,87	0,89	331
200	270	355M/L	533	7,8	1,7	2,8	4,02	70	154	1358	85	3585	91,5	93,7	95,0	0,86	0,90	0,91	351

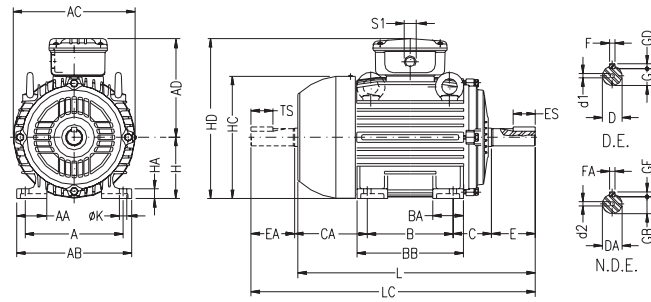
Output		Frame	Full Load Torque (Nm)	Locked Rotor Current II/In	Locked Rotor Torque TI/Tn	Break-down Torque Tb/Tn	Inercia J (kgm2)	Allowable locked rotor time (s)		Weight (kg)	Sound dB(A)	380 V						Full load currente In (A)	
								Rated speed (rpm)	% of full load			Power Factor							
									Efficiency			Power Factor							
Kw	HP							Hot	Cold			50	75	100	50	75	100		
IV Pole - 1800 rpm - 60 Hz																			
0,75	1	80	4,14	8,0	3,4	3,0	0,003	12	26	18,0	48	1730	77,5	81,0	82,6	0,60	0,72	0,80	1,73
1,5	2	90L	8,36	6,7	3,0	3,0	0,005	15	33	23,0	51	1715	83,2	84,0	84,0	0,63	0,76	0,83	3,27
2,2	3	100L	12,1	7,1	2,7	3,0	0,010	22	48	35,0	54	1735	86,8	87,5	87,5	0,62	0,74	0,81	4,72
3,7	5	112M	20,4	7,4	2,5	2,9	0,018	21	46	48,0	56	1735	87,2	87,5	87,5	0,74	0,81	0,85	7,58
5,5	7,5	132S	29,9	7,0	2,1	2,6	0,035	11	24	68,0	61	1755	88,0	89,0	89,7	0,61	0,74	0,82	11,3
7,5	10	132M	40,7	7,8	2,6	3,1	0,054	12	26	65,0	61	1760	90,0	91,0	91,0	0,61	0,74	0,82	15,3
11	15	160M	59,7	6,0	2,4	2,5	0,080	16	35	103	69	1760	89,0	90,5	91,1	0,69	0,78	0,82	22,3
15	20	160L	81,2	6,7	2,8	2,7	0,105	20	44	120	69	1765	90,7	92,2	92,4	0,65	0,76	0,80	30,9
18,5	25	180M	100	7,2	2,4	2,6	0,161	16	35	180	68	1765	91,0	92,0	92,5	0,70	0,80	0,84	36,2
22	30	180M	119	7,0	2,5	2,6	0,197	12	26	185	68	1760	92,7	93,0	93,0	0,71	0,80	0,84	42,8
30	40	180L	161	7,7	2,6	3,0	0,226	14	31	190	68	1775	91,7	92,8	93,0	0,62	0,74	0,81	60,8
37	50	200L	200	6,0	2,2	2,2	0,359	19	42	274	71	1770	93,0	93,2	93,2	0,75	0,82	0,85	71,2
45	60	200L	242	7,2	2,4	2,6	0,386	15	33	270	71	1775	92,0	93,0	93,6	0,67	0,77	0,82	89,2
55	75	225S/M	296	7,3	2,6	3,1	0,840	13	29	410	75	1775	93,9	94,3	94,2	0,75	0,84	0,88	101
75	100	250S/M	403	8,0	3,0	3,3	1,15	10	22	510	75	1780	94,0	94,5	94,6	0,69	0,80	0,85	142
90	125	250S/M	483	7,2	2,3	2,9	1,21	14	31	450	75	1780	94,7	95,0	95,0	0,77	0,82	0,86	168
110	150	280S/M	589	7,0	2,5	2,5	2,41	24	53	740	80	1785	94,5	94,8	95,2	0,75	0,83	0,86	204
132	175	280S/M	707	7,6	2,6	3,0	2,57	22	48	841	80	1785	94,8	95,1	95,3	0,75	0,84	0,87	242
160	220	315S/M	856	8,0	2,4	2,8	3,11	20	44	950	80	1785	94,2	95,3	95,5	0,73	0,82	0,85	299
185	250	315S/M	990	8,0	3,0	2,8	3,77	19	42	1005	80	1785	95,2	95,5	95,5	0,73	0,82	0,86	342
200	270	355M/L	1070	7,0	2,1	2,2	5,77	44	97	1358	83	1790	94,5	95,5	95,5	0,77	0,84	0,87	366

## 전동기 특성표

Output		Frame	Full Load Torque (Nm)	Locked Rotor Current I/In	Locked Rotor Torque Tl/Tn	Break-down Torque Tb/Tn	Inercia J (kgm2)	Allowable locked rotor time (s)		Weight (kg)	Sound dB(A)	380 V							
								Rated speed (rpm)	% of full load			Full load current In (A)							
									Efficiency				Power Factor						
kW	HP							Hot	Cold			50	75	100	50	75	100		
VI Pole - 1200 rpm - 60 Hz																			
0,75	1	90L	6,23	5,7	2,5	2,8	0,006	20	44	21,0	49	1150	77,0	79,5	80,2	0,48	0,60	0,70	2,03
1,5	2	100L	12,4	6,8	2,5	2,8	0,014	31	68	31,0	48	1160	83,4	85,8	86,5	0,52	0,64	0,72	3,66
2,2	3	112M	18,1	7,0	2,4	2,8	0,026	20	44	44,0	52	1160	84,0	86,0	87,5	0,50	0,62	0,71	5,38
3,7	5	132S	30,3	6,0	2,3	2,4	0,050	27	59	62,0	55	1165	86,0	87,8	87,7	0,55	0,68	0,75	8,57
5,5	7,5	132M	44,9	6,8	2,1	2,9	0,068	35	77	76,0	55	1170	88,6	89,5	89,5	0,52	0,65	0,73	12,8
7,5	10	160M	61,2	6,5	2,2	2,9	0,140	24	53	125	59	1170	88,8	89,5	89,5	0,66	0,77	0,83	15,3
11	15	160L	89,8	6,5	2,5	2,8	0,165	16	35	130	59	1170	89,7	90,5	91,0	0,60	0,72	0,79	23,3
15	20	180M	122	8,6	2,5	3,0	0,257	12	26	155	59	1175	90,5	91,0	91,0	0,73	0,82	0,86	29,1
18,5	25	180L	150	8,8	2,5	3,0	0,298	9	20	180	59	1175	91,0	91,7	91,7	0,73	0,82	0,87	35,3
22	30	180L	180	8,8	2,5	3,0	0,365	9	20	210	59	1170	91,2	91,7	91,7	0,75	0,84	0,87	41,9
30	40	200L	244	6,0	2,2	2,2	0,448	15	33	244	62	1175	92,5	93,3	93,4	0,65	0,76	0,82	59,6
37	50	200L	300	6,5	2,3	2,7	0,542	13	29	285	62	1180	92,3	92,9	93,0	0,65	0,76	0,82	73,5
45	60	225S/M	363	7,0	2,8	2,9	1,22	23	51	425	65	1185	93,7	94,0	93,7	0,66	0,76	0,82	89,2
55	75	250S/M	445	7,0	2,8	2,9	1,37	19	42	453	65	1180	93,2	93,8	93,7	0,67	0,77	0,82	109
75	100	250S/M	607	7,0	2,2	2,5	1,56	12	26	600	65	1180	93,7	94,1	94,1	0,72	0,82	0,85	142
90	125	280S/M	726	6,0	2,2	2,4	3,68	24	53	760	70	1185	94,5	94,6	94,5	0,71	0,80	0,84	173
110	150	280S/M	887	6,5	2,2	2,5	4,37	17	37	820	70	1185	94,6	95,1	95,1	0,73	0,81	0,84	209
132	175	315S/M	1060	6,5	2,3	2,5	5,29	19	42	987	73	1185	94,6	95,1	95,1	0,70	0,79	0,83	254
160	220	315S/M	1290	7,9	2,4	2,8	5,70	12	26	1170	73	1185	94,7	95,0	95,0	0,64	0,76	0,81	316



# 고효율 전동기 외형도



Standard Frame

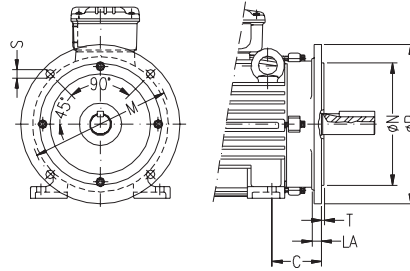
IEC frame	A	AA	AB	AC	AD	B	BA	BB	C	CA	Shaft Dimensions											H	HA	HC	HD	K	L	LC	S1	d1	d2	Bearings		
											D	E	ES	F	G	GD	DA	EA	TS	FA	GB											GF	D.E.	N.D.E.
											63	100	21	116	125	119	80	22	95	40	78											11j6	23	14
71	112	30	132	141	127	90	38	113.5	45	88	14j6	30	18	5	11	5	11j6	23	14	4	8.5	4	71	12	139	198	7	248	276	2xM20x1.5	DM5	EM4	6203-ZZ	6202-ZZ
80	125	35	149	159	136	100	40	125.5	50	93	19j6	40	28	6	15.5	6	14j6	30	18	5	11	5	80	13	157	216	10	276	313		DM6	DM4	6204-ZZ	6203-ZZ
90S	140	38	164	179	155	125	42	131	56	104	24j6	50	36	8	20	7	16j6	40	28	5	13	5	90	15	177	245	10	304	350	2xM25x1.5	DM8	DM6	6205-ZZ	6204-ZZ
90L	140	38	164	179	155	125	42	156	56	104	24j6	50	36	8	20	7	16j6	40	28	5	13	5	90	15	177	245	10	329	375	2xM25x1.5	DM8	DM6	6205-ZZ	6204-ZZ
100L	160	49	188	199	165	140	50	173	63	118	28j6	60	45	10	24	7	22j6	50	36	6	18.5	6	100	16	198	265	12	420	475		DM10	DM8	6206-ZZ	6205-ZZ
112M	190	48	220	222	184	140	50	177	70	128	28j6	60	45	10	24	7	24j6	50	36	6	20	6	112	18.5	235	296	12	393	448		DM10	DM8	6307-ZZ	6206-ZZ
132S	216	51	248	270	21	178	55	187	89	150	38k6	80	63	10	33	8	28j6	60	45	8	24	7	132	20	274	344	12	452	519	2xM32x1.5	DM12	DM10	6308-ZZ	6207-ZZ
132M	216	51	248	270	21	178	55	225	89	150	38k6	80	63	10	33	8	28j6	60	45	8	24	7	132	20	274	344	12	490	557		DM12	DM10	6308-ZZ	6207-ZZ
160M	254	64	308	312	255	210	65	254	108	174	42k6	110	80	12	37	9	42k6	110	80	12	37	8	160	22	317	415	14.5	598	712		DM16		6309-C3	6209-Z-C3
160L	254	64	308	312	255	210	65	298	108	174	42k6	110	80	12	37	9	42k6	110	80	12	37	8	160	22	317	415	14.5	642	756		DM16		6309-C3	6209-Z-C3
180M	279	80	350	358	275	241	75	294	121	200	48k6	110	80	14	42.5	9	48k6	110	80	14	42.5	9	180	28	360	455	14.5	664	782		DM16		6311-C3	6211-Z-C3
180L	279	80	350	358	275	241	75	332	121	200	48k6	110	80	14	42.5	9	48k6	110	80	14	42.5	9	180	28	360	455	14.5	702	820		DM16		6311-C3	6211-Z-C3
200M	318	82	38	396	300	267	85	332	133	222	55m6	140	125	16	49	10	55m6*	140	125	16	49	10	200	30	402	500	18.5	729	842		DM16		6312-C3	6212-Z-C3
200L	318	82	38	396	300	267	85	370	133	222	55m6	140	125	16	49	10	55m6*	140	125	16	49	10	200	30	402	500	18.5	767	880		DM16		6312-C3	6212-Z-C3
225S/M	356	80	436			286	105	391	149	280	55m6*	140	125	18	53	11	55m6*	140	125	18	53	11	225	34	466	598	18.5	817	935		DM16		6312-C3	6212-Z-C3
225S/M	356	80	436			286	105	391	149	255	60m6	140	125	18	53	11	60m6	140	125	18	53	11	225	34	466	598	18.5	847	995		DM16		6312-C3	6212-Z-C3
250S/M	406		506			311	138	449	168	312	60m6*	140	125	18	53	11	60m6*	140	125	18	53	11	250	42	491	623	24	923	1071		DM16		6314-C3	
250S/M	406		506			311	138	449	168	274	65m6	140	125	18	53	11	60m6*	140	125	18	53	11	250	42	491	623	24	923	1071		DM16		6314-C3	
280S/M	457		557			368	142	510	190	350	65m6*	140	125	20	67.5	12	65m6*	140	125	18	58	11	280	52	578	748	24	1036	1188		DM16		6316-C3	
280S/M	457		557			368	142	510	190	299	75m6	140	125	20	67.5	12	65m6*	140	125	18	58	11	280	52	578	748	24	1036	1188		DM16		6316-C3	
315S/M	508	120	628			406	152	558	216	376	65m6*	170	160	22	71	14	65m6*	170	160	22	71	14	315	52	613	812	28	1126	1274		DM16		6319-C3	6316-C3
315S/M	508	120	628			406	152	558	216	325	80m6	170	160	22	71	14	65m6*	170	160	22	71	14	315	52	613	812	28	1156	1308		DM16		6319-C3	6316-C3
355M/L	610	140	750	816	685	560	200	760	254	458	75m6*	210	200	28	90	16	80m6	170	160	22	71	14	355	50	725	1040	28	1396	1561		M20	M20	6316-C3	6314-C3
355M/L	610	140	750	816	685	630	200	760	254	388	100m6	210	200	28	90	16	80m6	170	160	22	71	14	355	50	725	1040	28	1466	1661		M24	M20	6322-C3	6319-C3

- Notes:
- \* Shaft dimensions for II pole motors, only for direct coupling.
  - All dimensions are in millimeters.
  - Larger and smaller flanges on request.
  - The data for frame 355M/L shown above are for horizontal mounting applications under standard coupling loads. The customer must inform when application is vertical or under special coupling loads.
  - The values shown are subject to change without prior notice.
  - To obtain guaranteed values please contact our nearest sales office.

# 고효율 전동기 외형도

## “FF” Flange

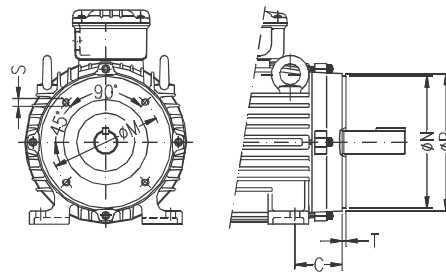
IEC Frame	“FF”Flange									N° of Holes		
	Flange	C	LA	M	N	P	T	S	$\alpha$			
63	FF-115	40	9	115	95	140	3	10	45°	4		
71	FF-130	45		130	110	160	3.5					
80	FF-165	50	10	165	130	200		4			15	
90S/L		56										
100L	FF-215	63	11	215	180	250	5	19				
112M		70										
132S/M	FF-265	89	12	265	230	300	6	24			22°30'	8
160M/L	FF-300	108	18	300	250	350						
180M/L		121										
200M/L	FF-350	133	350	300	400							
225S/M	FF-400	149	400	350	450							
250S/M	FF-500	168	500	450	550							
280S/M		190										
315S/M	FF-600	216	600	550	660							
355M/L	FF-740	254	740	680	800							



Standard Frame

## “C” Din Flange

IEC Frame	“C” DIN Flange							N° of Holes
	Flange	C	M	N	P	S	T	
63	C-90	40	75	60	90	M5	2.5	4
71	C-105	45	85	70	105	M6		
80	C-120	50	100	80	120		M8	
90S/L	C-140	56	115	95	140			
100L	C-160	63	130	110	160	M10	3.5	
112M		70						
132S/M	C-200	89	165	130	200			



Standard Frame



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