SAMT

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3 PH Electirc Motors IEC/NEMA High Efficiency

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Specialised Air Motors and Transmission

Design & Manufacture

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- Chemical Pump Motors
- Inverter Duty Motors
- Single Phase Motors
- Vibration-Protected Motors
- Custom Motors

NEMA EPACT & Premium™ SERIES MOTOR

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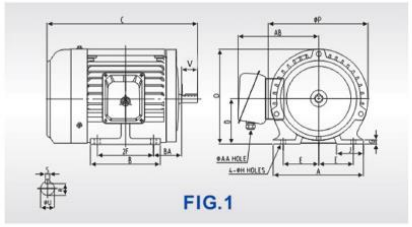
FIG.1

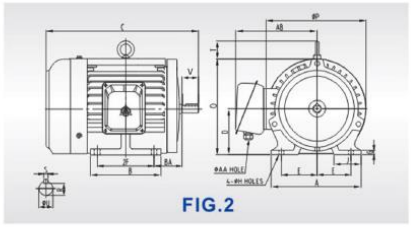
FIG.2

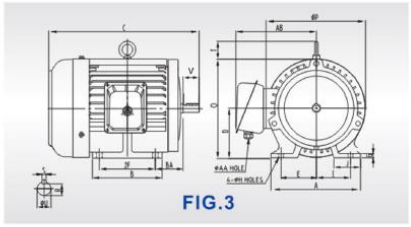
FIG.3

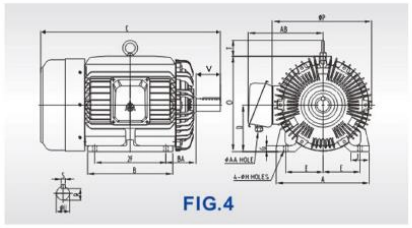
FIG.4

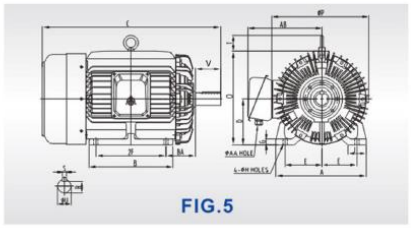
FIG.5

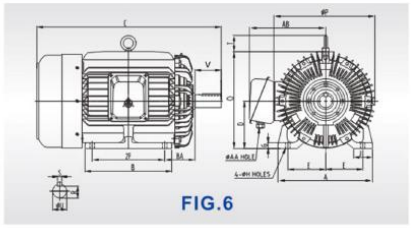
FIG.6

inch

Frame Size	Horse Power			Fig. No.	Mounting			BA	A	B	C	D	G	J	P	O+T
	2P	4P	6P		E	2F	H									
143T	1.5	1		1	2.75	4.00	0.34	2.25	6.70	4.91	12.47	3.50	0.35	1.40	7.87	7.45
145T	2	1.5	1		2.75	5.00	0.34	2.25	6.70	5.91	13.47	3.50	0.35	1.40	7.87	7.45
182T	3	3	1.5	2	3.75	4.50	0.41	2.75	8.82	5.89	14.80	4.50	0.56	1.77	9.37	10.5
184T	5	5	2		3.75	5.50	0.41	2.75	8.82	6.89	15.80	4.50	0.56	1.77	9.37	10.5
213T	7.5	7.5	3	3	4.25	5.50	0.41	3.50	9.85	6.90	18.10	5.25	0.65	1.77	10.75	12.3
215T	10	10	5		4.25	7.00	0.41	3.50	9.85	8.40	19.60	5.25	0.65	1.77	10.75	12.3
254T	15	15	7.5	4	5.00	8.25	0.53	4.25	11.82	10.10	23.60	6.25	0.71	1.97	13.15	14.8
256T	20	20	10		5.00	10.00	0.53	4.25	11.82	11.85	25.35	6.25	0.71	1.97	13.15	14.8
284T		25	15		5.50	9.50	0.53	4.75	13.98	11.70	26.75	7.00	0.79	2.95	15.05	16.5
284TS	25				5.50	9.50	0.53	4.75	13.98	11.70	25.35	7.00	0.79	2.95	15.05	16.5
286T		30	20		5.50	11.00	0.53	4.75	13.98	13.20	28.25	7.00	0.79	2.95	15.05	16.5
286TS	30				5.50	11.00	0.53	4.75	13.98	13.20	26.85	7.00	0.79	2.95	15.05	16.5
324T		40	25	5	6.25	10.50	0.66	5.25	15.75	12.85	29.75	8.00	0.98	3.15	16.60	18.6
324TS	40				6.25	10.50	0.66	5.25	15.75	12.85	28.25	8.00	0.98	3.15	16.60	18.6
326T		50	30		6.25	12.00	0.66	5.25	15.75	14.35	31.30	8.00	0.98	3.15	16.60	18.6
326TS	50				6.25	12.00	0.66	5.25	15.75	14.35	29.80	8.00	0.98	3.15	16.60	18.6
364T		60	40	6	7.00	11.25	0.66	5.88	17.75	13.80	32.50	9.00	1.32	3.54	18.05	20.8
364TS	60				7.00	11.25	0.66	5.88	17.75	13.80	30.40	9.00	1.32	3.54	18.05	20.8
365T		75	50		7.00	12.25	0.66	5.88	17.75	14.80	33.50	9.00	1.32	3.54	18.05	20.8
365TS	75				7.00	12.25	0.66	5.88	17.75	14.80	31.40	9.00	1.32	3.54	18.05	20.8
404T			60		8.00	12.25	0.81	6.62	19.70	15.25	36.50	10.00	1.40	3.94	20.10	23.6
405T		100	75		8.00	13.75	0.81	6.62	19.70	16.75	38.00	10.00	1.40	3.94	20.10	23.6
405TS	100				8.00	13.75	0.81	6.62	19.70	16.75	35.00	10.00	1.40	3.94	20.10	23.6

inch

Key			Keyseat	Conduit Box		Shaft Extension		Bearings		APPR WT (Lbs.)	Frame Size
Width	Thickness	Length	R	AA	AB	V	U	Drive End	Opposite Drive End		
0.188	0.188	1.375	0.771	NPT 3/4"	6.46	2.25	0.875	6205ZZ	6204ZZ	42.5	143T
0.188	0.188	1.375	0.771	NPT 3/4"	6.46	2.25	0.875	6205ZZ	6204ZZ	53.5	145T
0.250	0.250	1.750	0.986	NPT 3/4"	7.50	2.75	1.125	6306ZZ	6305ZZ	78.0	182T
0.250	0.250	1.750	0.986	NPT 3/4"	7.50	2.75	1.125	6306ZZ	6305ZZ	93.0	184T
0.312	0.312	2.375	1.201	NPT 1"	9.06	3.38	1.375	6308ZZ	6306ZZ	140.0	213T
0.312	0.312	2.375	1.201	NPT 1"	9.06	3.38	1.375	6308ZZ	6306ZZ	152.0	215T
0.375	0.375	2.875	1.416	NPT 1-1/4"	10.80	4.00	1.625	6309ZZ	6307ZZ	290.0	254T
0.375	0.375	2.875	1.416	NPT 1-1/4"	10.80	4.00	1.625	6309ZZ	6307ZZ	325.0	256T
0.500	0.500	3.250	1.591	NPT 1-1/2"	12.30	4.62	1.875	6311ZZ	6310ZZ	430.0	284T
0.375	0.375	1.875	1.416	NPT 1-1/2"	12.30	3.25	1.625	6311ZZC3	6310ZZC3	425.0	284TS
0.500	0.500	3.250	1.591	NPT 1-1/2"	12.30	4.62	1.875	6311ZZ	6310ZZ	475.0	286T
0.375	0.375	1.875	1.416	NPT 1-1/2"	12.30	3.25	1.625	6311ZZC3	6310ZZC3	465.0	286TS
0.500	0.500	3.875	1.845	NPT 2"	14.37	5.25	2.125	6312	6212	650.0	324T
0.500	0.500	2.000	1.591	NPT 2"	14.37	3.75	1.875	6312C3	6212C3	640.0	324TS
0.500	0.500	3.875	1.845	NPT 2"	14.37	5.25	2.125	6312	6212	710.0	326T
0.500	0.500	2.000	1.591	NPT 2"	14.37	3.75	1.875	6312C3	6212C3	700.0	326TS
0.625	0.625	4.250	2.021	NPT 3"	16.81	5.88	2.375	6315ZZ	6313ZZ	850.0	364T
0.500	0.500	2.000	1.591	NPT 3"	16.81	3.75	1.875	6312ZZC3	6212ZZC3	835.0	364TS
0.625	0.625	4.250	2.021	NPT 3"	16.81	5.88	2.375	6315ZZ	6313ZZ	950.0	365T
0.500	0.500	2.000	1.591	NPT 3"	16.81	3.75	1.875	6312ZZC3	6212ZZC3	935.0	365TS
0.750	0.750	5.625	2.450	NPT 3"	19.37	7.25	2.875	6316	6313	1450.0	404T
0.750	0.750	5.625	2.450	NPT 3"	19.37	7.25	2.875	6316	6313	1600.0	405T
0.500	0.500	2.750	1.845	NPT 3"	19.37	4.25	2.125	6313C3	6313C3	1600.0	405TS

Note:
1.) Tolerance on specifications D: +0.01 inch, -0.06 inch. 2.) Tolerance on specifications U: +0.000 inch, -0.0005 inch for frame 143-215. +0.000 inch , -0.001 inch for frame 254-405 +0 -0.001. 3.) Tolerance or dimension R: +0.000 inch, -0.015 inch. 4.) Dimension V is the straightness of length of shaft. 5.) Performance data is available upon request.

IEC AEHY SERIES MOTOR

IE3 IE2

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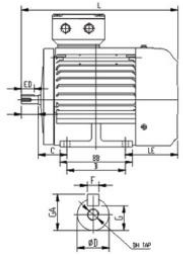

FIG.1

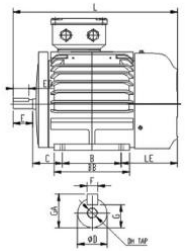

FIG.2

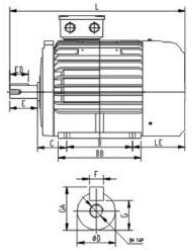

FIG.3

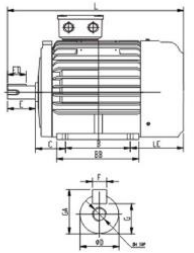

FIG.4

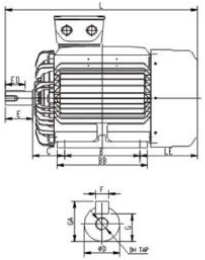

FIG.5

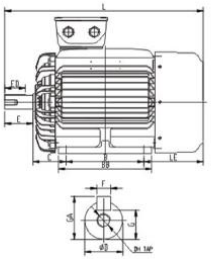

FIG.6

mm

OUTPUT (HP)			Frame Size	Fig. No.	A	AA	AB	AC	AE	B	BA	BB	C	H	HA	HB	HC
2P	4P	6P															
0.25	0.25	-	63	1	100	28.0	120	144	93	80	-	100	40	63	8.0	77.0	185.0
0.5	0.5	0.25	71		112	35.5	140	162	103	90	-	115	45	71	8.0	86.0	202.0
1	1	0.5	80		125	35.5	155	177	112	100	-	130	50	80	9.0	93.5	218.5
2 3	2	1	90L		140	35.5	170	200	125	125	-	150	56	90	10.0	105.0	240.0
-	3	2	100L	2	160	45.0	195	219	145	140	-	175	63	100	12.5	114.5	303.0
5	5	3	112M		190	45.0	224	235	154	140	-	175	70	112	14.0	122.5	325.0
7.5 10	7.5	5	132S		216	45.0	250	273	180	140	-	175	89	132	16.0	141.5	370.0
-	10	7.5	132M		216	45.0	250	273	180	178	-	212	89	132	16.0	141.5	370.0
15 20	15	10	160M	3	254	50.0	300	334	218	210	-	250	108	160	18.0	172.0	437.0
25	20	15	160L							254		300					
30	-	-	180MA	4	279	75.0	355	382	250	241	-	297	121	180	20.0	199.0	481.0
-	25 30	20	180MC	3													
40	-	-	180LA	4	279	75.0	355	382	250	279	-	335	121	180	20.0	199.0	481.0
-	40	25 30	180LC	3													
50 60	-	-	200LA	4	318	80.0	400	458	299	305	-	365	133	200	25.0	237.0	590.0
-	50 60	40 50	200LC														
75	-	-	225SA		356	100.0	450	510	337	286	-	350	149	225	30.0	263.0	641.0
-	75	60	225SC														
100	-	-	250SA	5	406	110.0	500	545	384	311	-	385	168	250	32.0	280.5	683.0
-	100	75	250SC														
150	-	-	280S	6	457	110.0	560	625	455	368	110	445	190	280	36.0	320.5	801.0
-	150	125															
175	-	-	280M		457	110.0	560	625	455	419	130	495	190	280	36.0	320.5	801.0
-	175	150															

mm

K	KK	L	LE	SHAFT END								BEARINGS		WEIGHT
				D	E	ED	EE	F	G	GA	DH	LOAD SIDE	OUT OF LOAD SIDE	KGS
7.0	Ø22	219.0	76.0	11	23	20	-	4	8.5	12.5	M4*8	6201ZZ	6201ZZ	8.5
7.0	Ø22	250.5	85.5	14	30	25	-	5	11.0	16.0	M5*10	6203ZZ	6202ZZ	11.5
10.0	Ø22	282.5	92.5	19	40	35	-	6	15.5	21.5	M6*12	6204ZZ	6203ZZ	17.0
10.0	Ø22	332.5	101.5	24	50	45	-	8	20.0	27.0	M8*16	6205ZZ	6204ZZ	24.0
12.0	Ø28	374.5	111.5	28	60	55	-	8	24.0	31.0	M10*20	6206ZZ	6205ZZ	37.0
12.0	Ø28	391.5	121.5	28	60	55	-	8	24.0	31.0	M10*20	6306ZZ	6305ZZ	46.0
12.0	Ø35	454.0	145.0	38	80	75	-	10	33.0	41.0	M12*24	6308ZZ	6306ZZ	68.0
12.0	Ø35	492.0										6308ZZ	6306ZZ	79.0
14.5	Ø35	608.0 652.0	180.0	42	110	105	-	12	37.0	45.0	M16*32	6309ZZ 6309ZZ	6307ZZ 6307ZZ	125.0 140.0
14.5	Ø52	672.0	200.0	48	110	105	-	14	42.5	51.5	M16*32	6311ZZC3 6311ZZ	6310ZZC3 6310ZZ	179.0 195.0
14.5	Ø52	710.0	200.0	55	110	105	-	16	49.0	59.0	M20*40	6312ZZC3 6312ZZ	6310ZZC3 6310ZZ	198.0 223.0
18.5	Ø65	774.5 804.5	226.5	55 60	110 140	105 135	- -	16 18	49.0 53.0	59.0 64.0	M20*40 M20*40	6312ZZC3 6314ZZ	6312ZZC3 6312ZZ	312.0 324.0
	Ø92	786.0 816.0	241.0	55 65	110 140	105 135	- -	16 18	49.0 58.0	59.0 69.0	M20*40 M20*40	6312ZZC3 6315ZZ	6212ZZC3 6313ZZ	400.0 412.0
24.0	Ø92	852.5 882.5	263.5	55 75	110 140	105 135	- -	16 20	49.0 67.5	59.0 79.5	M20*40 M20*40	6313C3 6316	6312ZZC3 6313	449.0 508.0
24.0	-	1012.0 1012.0	344.0	55 85	110 170	105 165	104 157	16 22	49.0 67.0	59.0 90.0	* *	6314C3 6320C3	6314C3 6316	68.0 740.0 / 760.0
24.0	-	1062.0 1122.0	343.0	55 85	110 170	105 165	104 157	16 22	49.0 67.0	59.0 90.0	* *	6314C3 6320C3	6314C3 6316	72.5 810.0 / 820.0

Note:
1.) Tolerance of shaft Dia.D: Ø11 - Ø28: J6, Ø38 - Ø48: K6, Ø55 - Ø75: m6. 2.) Tolerance of Shaft height H: +0, -0.5
3.) Photos or specifications are subject to change without notice.

IEC AEUY SERIES MOTOR

IE3 IE2

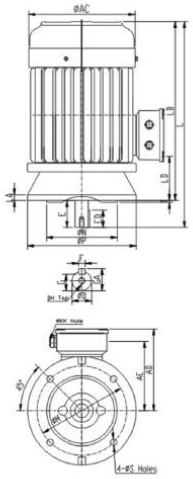

FIG.1

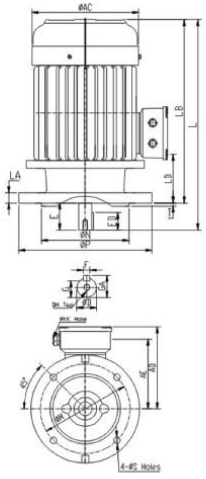

FIG.2

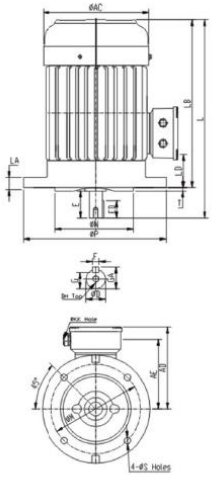

FIG.3

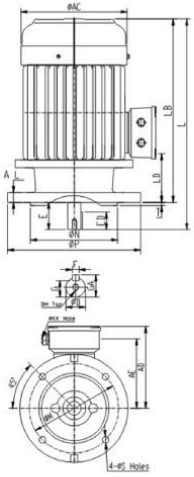

FIG.4

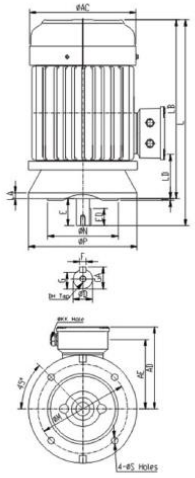

FIG.5

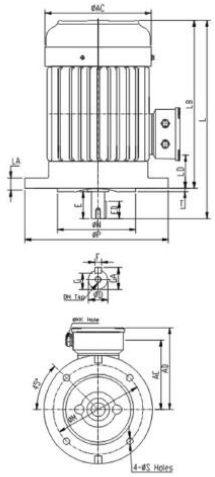

FIG.6

mm

OUTPUT (HP)			Frame Size	Fig. No.	AC	AD	AE	HB	KK	L	LA	LB	LD	M	N	P	S	T
2P	4P	6P																
0.25	0.25	-	63	1	144	123	93	-	22	248.0	12	225.0	7.4	130	110	160	10.0	3.5
0.5	0.5	-	71		162	133	103	-	22	277.5	12	247.5	8.2	130	110	160	10.0	3.5
1	1	0.5	80	2	177	144	112	-	22	282.0	12	242.0	6.0	165	130	200	12.0	3.5
2	3	2	1	90L	3	200	157	125	-	22	371.5	12	312.5	11.3	165	130	200	12.0	3.5
-	3	2	100L	2	219	180	145	140	28	374.5	16	314.5	8.8	215	180	250	14.5	4.0
5	5	3	112M	3	235	189	154	150	28	431.0	16	371.0	13.5	215	180	250	14.5	4.0
7.5	10	7.5	5	132S	2	273	224	180	169	35	454.0	20	374.0	9.7	265	230	300	14.5	4.0
-	10	7.5	132M							492.0		412.0	11.6					
15	20	15	10	160M	4	334	263	218	271	35	608.0	20	498.0	151.0	300	250	350	18.5	5.0
25	20	15	160L							652.0		542.0	173.0					
30	-	-	180MC	5	382	305	250	241	52	672.0	20	562.0	170.5	350	300	400	18.5	5.0
-	25	30	20	180MA						672.0		562.0	170.5					
40	-	-	180LA							710.0		600.0	189.5					
-	40	25	30	180LC						710.0		600.0	189.5					
50	60	-	-	200LA	6	458	362	299	286	65	774.5	20	664.5	194.5	400	350	450	18.5	5.0
-	50	60	40	200LC						804.5								
75	-	-	225SA		510	411	337	312	92	786.0	22	676.0	190.0	500	450	550	18.5	5.0
-	75	60	225SC							816.0								
100	-	-	250SA	6	545	499	384	329.5	92	882.5	22	742.5	182.5	500	450	550	18.5	5.0
-	100	75	250SC							882.5								

mm

SHAFT END								BEARINGS		WEIGHT
D	E	ED	EE	F	G	GA	DH	LOAD SIDE	OUT OF LOAD SIDE	KGS
11	23	20	-	4	8.5	12.5	M4*8	6201ZZ	6201ZZ	9.5
14	30	25	-	5	11.0	16.0	M5*10	6203ZZ	6202ZZ	12.5
19	40	35	-	6	15.5	21.5	M6*12	6204ZZ	6203ZZ	19.0
24	50	45	-	8	20.0	27.0	M8*16	6205ZZ	6204ZZ	27.0
28	60	55	-	8	24.0	31.0	M10*20	6206ZZ	6205ZZ	40.0
28	60	55	-	8	24.0	31.0	M10*20	6306ZZ	6305ZZ	51.0
38	80	75	-	10	33.0	41.0	M12*24	6308ZZ	6306ZZ	73.0
								6308ZZ	6306ZZ	84.0
42	110	105	-	12	37.0	45.0	M16*32	6309ZZ	6307ZZ	133.0
								6309ZZ	6307ZZ	148.0
48	110	105	-	14	42.5	51.5	M16*32	6311ZZC3	6310ZZC3	187.0
								6311ZZ	6310ZZ	203.0
55	110	105	-	16	49.0	59.0	M20*40	6312ZZC3	6310ZZC3	206.0
								6312ZZ	6310ZZ	231.0
55	110	105	-	16	49.0	59.0	M20*40	6312ZZC3	6212ZZC3	322.0
60	140	135	-	18	53.0	64.0	M20*40	6314ZZ	6312ZZ	334.0
55	110	105	-	16	49.0	59.0	M20*40	6312ZZC3	6312ZZC3	420.0
65	140	135	-	18	58.0	69.0	M20*40	6315ZZ	6313ZZ	432.0
55	110	105	-	16	49.0	59.0	M20*40	6313C3	6312ZZC3	469.0
75	140	135	-	20	67.5	79.5	M20*40	6316	6313	528.0

Note:
1.) Tolerance of shaft Dia.D: Ø11 - Ø28: J6, Ø38 - Ø48: K6, Ø55 - Ø75: m6. 2.) Tolerance of Shaft height H: +0, -0.5
3.) Photos or specifications are subject to change without notice.

IEC AEHL CAST IRON SERIES MOTOR

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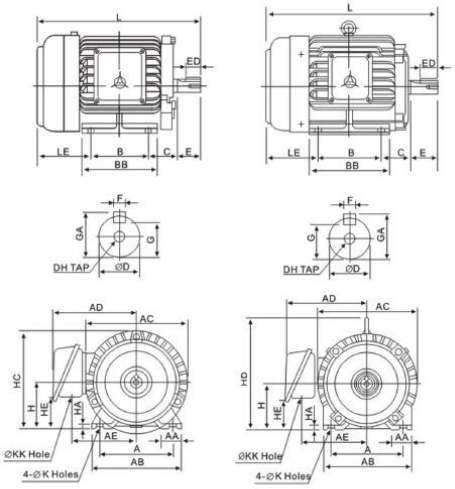

FIG.1 FIG.2

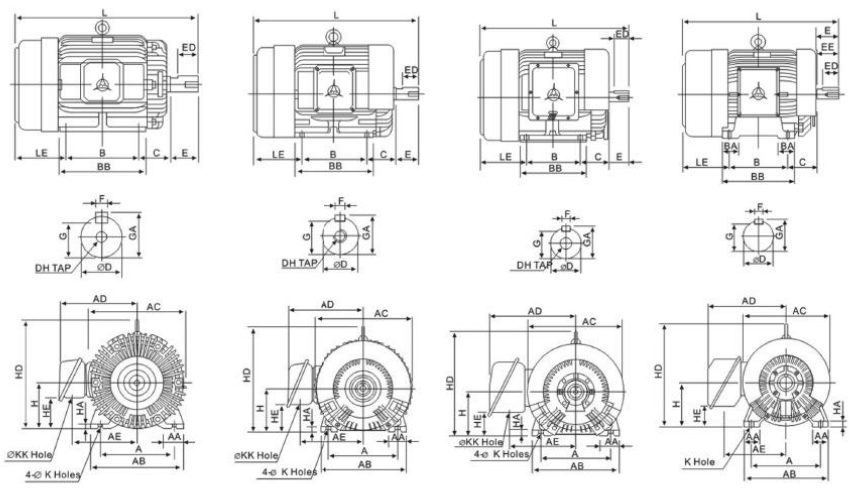

FIG.3 FIG.4 FIG.5 FIG.6

mm

OUTPUT (HP)			Frame Size	Fig. No.	A	AA	AB	AC	AD	AE	B	BA	BB	C	H	HA	HC	HD	HE
2P	4P	6P																	
0.25	0.25	--	63	1	100	28.0	120	144	123	93	80	-	100	40	63	8.0	135.0	-	29
0.5	0.5	0.25	71		112	35.5	140	162	133	103	90	-	115	45	71	8.0	152.0	-	54
1	1	0.5	80		125	35.5	155	177	144	112	100	-	130	50	80	9.0	168.5	-	55
2 3	2	1	90L		140	35.5	170	200	157	125	125	-	150	56	90	10.0	190.0	-	65
-	3	2	100L	2	160	45.0	195	219	180	145	140	-	175	63	100	12.5	-	243	71
5	5	3	112M		190	45.0	224	235	189	154	140	-	175	70	112	14.0	-	265	83
7.5 10	7.5	5	132S		216	45.0	250	273	225	180	140	-	175	89	132	16.0	-	310	83
-	10	7.5	132M		216	45.0	250	273	255	180	178	-	212	89	132	16.0	-	310	83
15 20	15	10	160M	3	254	50.0	300	334	263	218	210	-	250	108	160	18.0	-	377	108
25	20	15	160L								254		300						
30	-	-	180MC	4	279	75.0	355	382	305	250	241	-	297	121	180	20.0	-	421	119
-	25 30	20	180MA	3															
40	-	-	180LA	4	279	75.0	355	382	305	250	279	-	335	121	180	20.0	-	421	119
-	40	25 30	180LC	3															
50 60	-	-	200LA	4	318	80.0	400	458	362	299	305	-	365	133	200	25.0	-	499	129
-	50 60	40 50	200LC																
75	-	-	225SA		356	100.0	450	510	410	337	286	-	350	149	225	30.0	-	550	153
-	75	60	225SC																
100	-	-	250SA	5	406	110.0	500	545	499	384	311	-	385	168	250	32.0	-	592	139
-	100	75	250SC																
125	-	-	A250MA		406	100.0	500	510	479	364	349	-	480	168	250	36.0	-	595	139
-	125	100	A250MC		406	100.0	500	510	479	364	349	-	480	168	250	36.0	-	595	139
150	-	-	280S	6	457	110.0	560	625	610	455	368	110	445	190	280	3.60	-	710	91
-	150	125																	
175	-	-	280M		457	110.0	560	625	610	455	419	130	495	190	280	3.6.0	-	710	91
-	175	150																	

mm

K	KK	L	LE	SHAFT END								BEARINGS		WEIGHT
				D	E	ED	EE	F	G	GA	DH	LOAD SIDE	OUT OF LOAD SIDE	KGS
7.0	ø22	219.0	76.0	11	23	20	-	4	8.5	12.5	M4*8	6201ZZ	6201ZZ	8.5
7.0	ø22	250.5	85.5	14	30	25	-	5	11.0	16.0	M5*10	6203ZZ	6202ZZ	11.5
10.0	ø22	282.5	92.5	19	40	35	-	6	15.5	21.5	M6*12	6204ZZ	6203ZZ	17.0
10.0	ø22	332.5	101.5	24	50	45	-	8	20.0	27.0	M8*16	6205ZZ	6204ZZ	24.0
12.0	ø28	374.5	111.5	28	60	55	-	8	24.0	31.0	M10*20	6206ZZ	6205ZZ	37.0
12.0	ø28	391.5	121.5	28	60	55	-	8	24.0	31.0	M10*20	6306ZZ	6305ZZ	46.0
12.0	ø35	454.0	145.0	38	80	75	-	10	33.0	41.0	M12*24	6308ZZ	6306ZZ	68.0
12.0	ø35	492.0										6308ZZ	6306ZZ	79.0
14.5	ø35	608.0	180.0	42	110	105	-	12	37.0	45.0	M16*32	6309ZZ	6307ZZ	125.0
		652.0										6309ZZ	6307ZZ	140.0
14.5	ø52	672.0	200.0	48	110	105	-	14	42.5	51.5	M16*32	6311ZZC3	6310ZZC3	179.0
												6311ZZ	6310ZZ	195.0
14.5	ø52	710.0	200.0	55	110	105	-	16	49.0	59.0	M20*40	6312ZZC3	6310ZZC3	198.0
												6312ZZ	6310ZZ	223.0
18.5	ø65	774.5	226.5	55	110	105	-	16	49.0	59.0	M20*40	6312ZZC3	6212ZZC3	312.0
		804.5		60	140	135	-	18	53.0	64.0	M20*40	6314ZZ	6312ZZ	324.0
	ø92	786.0	241.0	55	110	105	-	16	49.0	59.0	M20*40	6312ZZC3	6312ZZC3	400.0
		816.0		65	140	135	-	18	58.0	69.0	M20*40	6315ZZ	6313ZZ	412.0
24.0	ø92	852.5	263.5	55	110	105	-	16	49.0	59.0	M20*40	6313C3	6312ZZC3	449.0
		882.5		75	140	135	-	20	67.5	79.5	M20*40	NU316	6313	508.0
24.0	ø92	947.5	320.5	55	110	105	-	16	49.0	59.0	M20 *40	6313C3	6313C3	508.0
24.0	ø92	977.5	325.5	75	140	135	-	20	67.5	79.5	M20*40	NU316	6313	520.0
24.0	-	1012.0	344.0	55	110	105	104	16	49.0	59.0	-	6314C3	6314C3	680.0
		1012.0		85	170	165	157	22	67.0	90.0	-	NU320C3	6316	740.0 / 760.0
24.0	-	1062.0	343.0	55	110	105	104	16	49.0	59.0	-	6314C3	6314C3	725.0
		1122.0		85	170	165	157	22	67.0	90.0	-	NU320C3	6316	810.0 / 820.0

Note:
1.) Tolerance of shaft Dia.D: Ø11 - Ø28: J6, Ø38 - Ø48: K6, Ø55 - Ø75: m6. 2.) Tolerance of Shaft height H: +0, -0.5
3.) Photos or specifications are subject to change without notice.

IEC AEUL CAST IRON SERIES MOTOR

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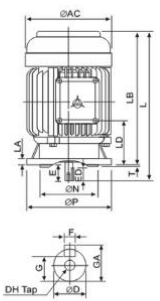


FIG.1

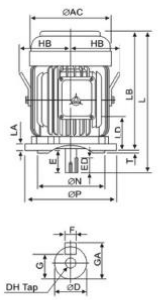


FIG.2

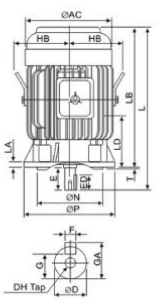


FIG.3

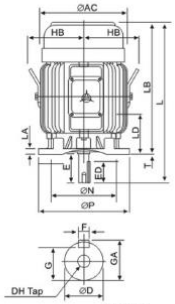


FIG.4

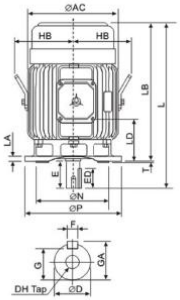


FIG.5

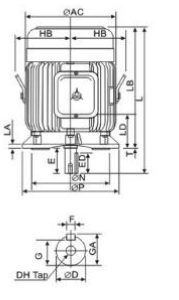


FIG.6

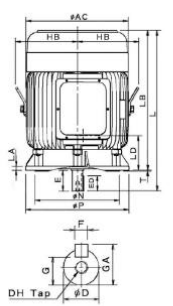


FIG.7

mm

OUTPUT (HP)			Frame Size	Fig. No.	AC	AD	AE	HB	KK	L	LA	LB	LD	M	N	P	S	T
2P	4P	6P																
0.25	0.25	-	63	1	144	123	93	-	22	248.0	12	225.0	74.0	130	110	160	10.0	3.5
0.5	0.5	-	71		162	133	103	-	22	277.5	12	247.5	82.0	130	110	160	10.0	3.5
1	1	0.5	80	1	177	144	112	-	22	282.0	12	242.0	60.0	165	130	200	12.0	3.5
2 3	2	1	90L	1	200	157	125	-	22	371.5	12	321.5	113.0	165	130	200	12.0	3.5
-	3	2	100L	2	219	180	145	140	28	374.5	16	314.5	88.0	215	180	250	14.5	4.0
5	5	3	112M	3	235	189	154	150	28	431.0	16	371.0	135.0	215	180	250	14.5	4.0
7.5 10	7.5	5	132S	2	273	224	180	169	35	454.0	20	374.0	97.0	265	230	300	14.5	4.0
-	10	7.5	132M							492.0		412.0	116.0					
15 20	15	10	160M	4	334	263	218	271	35	608.0	20	498.0	151.0	300	250	350	18.5	5.0
25	20	15	160L							652.0		542.0	173.0					
30	-	-	180MC	5	382	305	250	241	52	672.0	20	562.0	170.5	350	300	400	18.5	5.0
-	25 30	20	180MA							672.0		562.0	170.5					
40	-	-	180LA		382	305	250	241	52	710.0	20	600.0	189.5	350	300	400	18.5	5.0
-	40	25 30	180LC							710.0		600.0	189.5					
50 60	-	-	200LA	6	458	362	299	286	65	774.5	20	664.5	194.5	400	350	450	18.5	5.0
-	50 60	40 50	200LC							804.5								
75	-	-	225SA		510	411	337	312	92	786.0	22	676.0	190.0	500	450	550	18.5	5.0
-	75	60	225SC							816.0								
100	-	-	250SA	7	545	499	384	329.5	92	882.5	22	742.5	182.5	500	450	550	18.5	5.0
-	100	75	250SC							882.5								
125	-	-	A250MA		510	479	364	312	91	947.5	22	837.5	230.0	500	450	550	18.5	5.0
-	125	100	A250MC															

mm

SHAFT END								BEARINGS		WEIGHT
D	E	ED	EE	F	G	GA	DH	LOAD SIDE	OUT OF LOAD SIDE	KGS
11	23	20	-	4	8.5	12.5	M4*8	6201ZZ	6201ZZ	9.5
14	30	25	-	5	11.0	16.0	M5*10	6203ZZ	6202ZZ	12.5
19	40	35	-	6	15.5	21.5	M6*12	6204ZZ	6203ZZ	19.0
24	50	45	-	8	20.0	27.0	M8*16	6205ZZ	6204ZZ	27.0
28	60	55	-	8	24.0	31.0	M10*20	6206ZZ	6205ZZ	40.0
28	60	55	-	8	24.0	31.0	M10*20	6306ZZ	6305ZZ	51.0
38	80	75	-	10	33.0	41.0	M12*24	6308ZZ	6306ZZ	73.0
								6308ZZ	6306ZZ	84.0
42	110	105	-	12	37.0	45.0	M16*32	6309ZZ	6307ZZ	133.0
								6309ZZ	6307ZZ	148.0
48	110	105	-	14	42.5	51.5	M16*32	6311ZZC3	6310ZZC3	187.0
								6311ZZ	6310ZZ	203.0
55	110	105	-	16	49.0	59.0	M20*40	6312ZZC3	6310ZZC3	206.0
								6312ZZ	6310ZZ	231.0
55	110	105	-	16	49.0	59.0	M20*40	6312ZZC3	6212ZZC3	322.0
60	140	135	-	18	53.0	64.0	M20*40	6314ZZ	6312ZZ	334.0
55	110	105	-	16	49.0	59.0	M20*40	6312ZZC3	6312ZZC3	420.0
65	140	135	-	18	58.0	69.0	M20*40	6315ZZ	6313ZZ	432.0
55	110	105	-	16	49.0	59.0	M20*40	6313C3	6312ZZC3	469.0
75	140	135	-	20	67.5	79.5	M20*40	NU316	6313	528.0
55	110	105	-	16	49.0	59.0	M20*40	6313C3	6313C3	546.0
75	140	135	-	20	67.5	79.5	M20*40	NU316	6316	528.0

Note:
1.) Tolerance of shaft Dia.D: Ø11 - Ø28: J6, Ø38 - Ø48: K6, Ø55 - Ø75: m6. 2.) Tolerance of Shaft height H: +0, -0.5
3.) Photos or specifications are subject to change without notice.

ALUMINIUM SERIES MOTOR

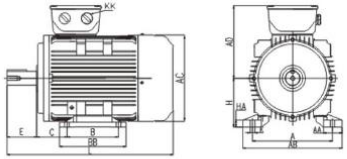
IE3 IE2

SAMT
Specialised Air Motors and Transmission

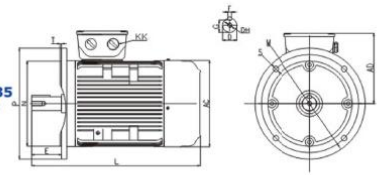



Specifications:
- High Efficiency EFFI Aluminium Motor
- Horsepower: 0.25HP~25HP
- Voltage:
  > 50Hz: 220V, 220V/380V, 415V
  > 60Hz: 220V, 220V/380V, 440V, 460V, 480V, 575V
- Isolation Class: F
- S.F.1.15 - Protection Class: IP55
- Terminal Box is movable
- CE, UL, CSA (Shaft with thread)

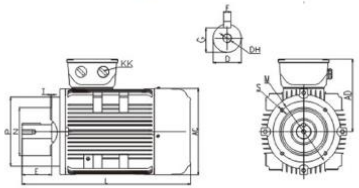
IM B3 63-160



IM B5/B35 63-160



IM B14 63-160



mm

OUTPUT (HP)		Frame Size	B3 / B35																	B3 / B35							
																		KK							BEARINGS		WEIGHT (KGS)	
2P	4P		A	AA	AB	BB	HA	AC	AD	B	C	D	DH	E	F	G	H	K	METRIC	PG	L	M	N	P	S	T	LOAD/OUT OF LOAD SIDE 2P	LOAD/OUT OF LOAD SIDE 4P	ALUM COVER	CAST IRON COVER
0.25	0.25	63	100	24	135	100	7	120	120	80	40	11	M4*2	23	4	8.5	63	7	1- M20*1.5	1-PG11	217	115	95	140	10.0	3.0	6201 / 6201	6201 / 6201	4.0	
0.5	0.5	71	112	26	150	110	8	135	128	90	45	14	M5*12	30	5	11.0	71	7	1- M20*1.5	1-PG11	245	130	110	160	10.0	3.5	6202 / 6202	6202 / 6202	7.3	8.5
1	1	80	125	35	165	125	9	154	137	100	50	19	M6*16	40	6	15.5	80	10	1- M20*1.5	1-PG11	289	165	130	200	12.0	3.5	6204 / 6303	6204 / 6303	10.0	11.9
2	3	2	90L	140	37	180	150	10	173	152	125	56	24	M8*19	50	8	20.0	90	10	1- M20*1.5	1-PG11	340	165	130	200	12.0	3.5	6205 / 6304	6205 / 6304	14.0	16.0
-	3	100L	160	40	205	172	11	194	162	140	63	28	M10*22	60	8	24.0	100	12	1- M20*1.5	1-PG11	385	215	180	250	14.5	4.0	6205 / 6304	6206 / 6305	17.0	19.0
5	5	112M	190	41	230	181	12	217	174	140	70	28	M10*22	60	8	24.0	112	12	1- M20*1.5	1-PG11	400	215	180	250	14.5	4.0	6306 / 6305	6306 / 6305	32.0	35.9
7.5	10	7.5	132S	216	51	270	186	15	232	206	140	89	38	M12*28	80	10	33.0	132	12	1- M32*1.5	1-PG21	483	265	230	300	14.5	4.0	6308 / 6306	6308 / 6306	42.6	47.2
-	10	132M	216	51	270	224	15	232	206	178	89	38	M12*28	80	10	33.0	132	12	1- M32*1.5	1-PG21	510	265	230	300	14.5	4.0	6308 / 6306	6308 / 6306	48.3	52.9
15	20	15	160M	254	55	320	260	18	266	228	210	108	42	M16*36	110	12	37.0	160	15	1- M32*1.5	1-PG21	615	300	250	350	18.5	5.0	6309 / 6308	6309 / 6308	70.0	76.2
25	20	160L	254	55	320	304	18	266	228	254	108	42	M16*36	110	12	37.0	160	15	1- M32*1.5	1-PG21	670	300	250	350	18.5	5.0	6309 / 6308	6309 / 6308	80.3	86.5

mm

OUTPUT (HP)		Frame Size	B5 / B35								B5					B14					B5 / B14			
									KK												BEARINGS		WEIGHT (KGS)	
2P	4P		AD	D	DH	E	F	G	METRIC	PG	L	M	N	P	S	T	M	N	P	S	T	LOAD/OUT OF LOAD SIDE	LOAD/OUT OF LOAD SIDE	ALUM COVER	CAST IRON COVER
0.25	0.25	63	120	11	M4*12	23	4	8.5	1- M20*1.5	1-PG11	217	130	110	160	10.0	3.0	75	60	90	M5	2.5	6201 / 6201	6201 / 6201	4.4	
0.5	0.5	71	128	14	M5*12	30	5	11.0	1- M20*1.5	1-PG11	245	130	110	160	10.0	3.5	85	70	105	M6	2.5	6202 / 6202	6202 / 6202	7.0	8.2
1	1	80	137	19	M6*16	40	6	15.5	1- M20*1.5	1-PG11	289	165	130	200	12.0	3.5	100	80	120	M6	3.0	6204 / 6303	6204 / 6303	12.5	14.4
2	3	2	90L	152	24	M8*19	50	8	20.0	1- M20*1.5	1-PG11	340	165	130	200	12.0	3.5	115	95	140	M8	3.0	6205 / 6304	6205 / 6304	18.0	20.0
-	3	100L	162	28	M10*22	60	8	24.0	1- M20*1.5	1-PG11	385	215	180	250	14.5	4.0	130	110	160	M8	3.5	6205 / 6304	6206 / 6305	23.5	26.2
5	5	112M	174	28	M10*22	60	8	24.0	1- M20*1.5	1-PG11	400	215	180	250	14.5	4.0	130	110	160	M8	3.5	6306 / 6305	6306 / 6305	37.0	40.9
7.5	10	7.5	132S	206	38	M12*28	80	10	33.0	1- M32*1.5	1-PG21	483	265	230	300	14.5	4.0	165	130	200	M10	3.5	6308 / 6306	6308 / 6306	48.5	53.1
-	10	132M	206	38	M12*28	80	10	33.0	1- M32*1.5	1-PG21	510	265	230	300	14.5	4.0	165	130	200	M10	3.5	6308 / 6306	6308 / 6306	60.0	64.6
15	20	15	160M	228	42	M16*36	110	12	37.0	1- M32*1.5	1-PG21	615	300	250	350	18.5	5.0	215	180	250	M12	4.0	6309 / 6308	6309 / 6308	72.0	78.2
25	20	160L	228	42	M16*36	110	12	37.0	1- M32*1.5	1-PG21	670	300	250	350	18.5	5.0	215	180	250	M12	4.0	6309 / 6308	6309 / 6308	84.0	90.2

CAST IRON HORIZONTAL PUMP MOTOR - CK Series

SAMT
Specialised Air Motors and Transmission

SAMT
Specialised Air Motors and Transmission

Specifications:
- Three Phase Cast Iron Horizoontal Pump Motor
- Horsepower: 0.5HP ~ 20HP
- Voltage: 50Hz/60Hz: 220V, 380V, 440V, 760V
- Isolation Class: B.F
- Protection Class: IP54, IP55
- S.F.: As Per Requirement
- CE, UL, CSA

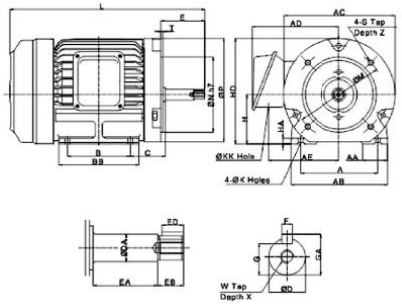


FIG.1

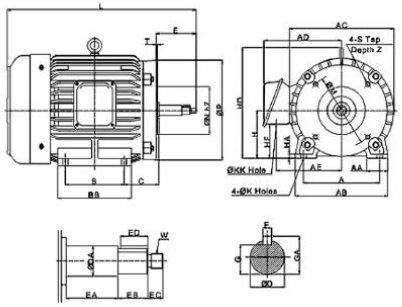


FIG.2

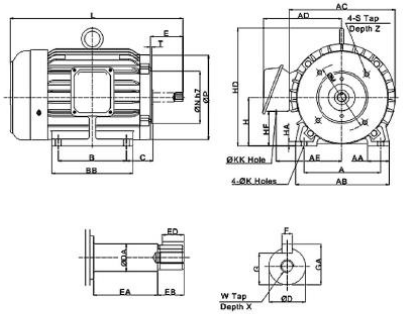


FIG.3

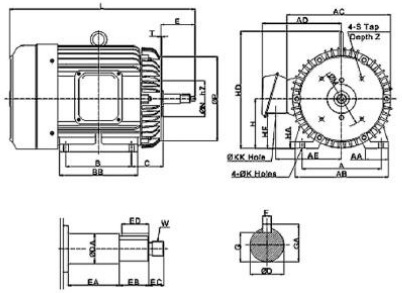


FIG.4

mm

OUTPUT (HP)		Frame Size	FIGURE	A	B	D	K	H	HD	AE	AB	BB	KK	HA	AA	AC	L	AD	M	N	P	SHAFT END												BEARINGS	
2P	4P																					S	T	Z	E	ED	D	DA	F	GA	G	DH	X	EA	EB	EC	LOAD SIDE	OUT OF LOAD SIDE
0.5	–	71	1	112	90	50.5	10.0	71	152	98	140	115	22	8.0	35.5	160	283	125	130	108	-	W5/16"	3	16	62.5	14	12.7	15.9	3	14.2	11.2	M6	17	41	16.0	–	6204ZZ	6202ZZ
1	1	80		125	100	50.0	10.0	80	168	107	155	130	22	9.0	35.5	177	304	135	148	114	174	W3/8"	3	15	67.5	15	16.7	19.1	4	19.2	14.2	M8	20	44	18.0	–	6204ZZ	6204ZZ
2	2	90L	2	140	125	55.5	10.0	90	190	120	170	150	22	10.0	35.5	200	347	150	148	114	164	W3/8"	3	12	67.5	15	16.7	19.1	4	19.2	14.2	M8	20	44	18.0	–	6205ZZ	6204ZZ
3	–			140	125	55.5	10.0	90	190	120	170	150	22	10.0	35.5	200	347	150	148	114	164	W3/8"	3	12	67.5	15	16.7	19.1	4	19.2	14.2	M8	20	44	18.0	–	6205ZZ	6204ZZ
4	3	100L		160	140	61.5	12.0	100	243	142	195	175	28	12.5	45.0	219	378	175	148	114	184	W3/8"	3	12	67.5	15	16.7	19.1	4	19.2	14.2	M8	19	44	18.0	–	6206ZZ	6205ZZ
5	5	112M		190	140	69.5	12.0	112	265	150	224	175	28	14.0	45.0	238	407	182	178	114	200	W1/2"	3	13	82.5	17	20.6	25.4	5	23.1	18.1	M10	20	56	20.0	–	6306ZZ	6306ZZ
7.5	7.5	132S	3	216	140	82.5	12.0	132	310	177	250	175	35	16.0	45.0	273	458	212	178	114	240	W1/2"	3	15	96.5	17	20.6	25.0	5	23.1	18.1	M12	–	56	20.0	14	6308ZZ	6306ZZ
10	–	131M		216	140	83.0	12.0	132	310	177	250	175	35	16.0	45.0	273	471	212	178	114	240	W1/2"	3	15	109.5	29	27.0	32.0	5	29.0	24.0	M16	–	55	31.5	16	6308ZZ	6306ZZ
15	20	15	160M	4	254	210	101	14.5	160	377	215	300	250	35	18.0	45.0	334	594	250	179	114	270	W1/2"	3	20	109.5	29	27.0	32.0	5	29.0	24.0	M16	–	55	31.5	16	6310ZZ	6307ZZ

AEHL / AEUL PERFORMANCE DATA

SAMT
Specialised Air Motors and Transmission

1.0 60HZ TOTALLY ENCLOSED,AMBIENT40,CONTIUNOUS DUTY,SERVICE FACTOR S.F. : 1.0 60HZ

Output		Pole	Frame	Full Load Speed RPM	Efficiency	Power Factor	Current		Torque				Rotor GD Kg-m²
HP	KW			RPM	Full Load (%)	Full Load (%)	Full Load (%)	Start (A)	Full Load Torque Kg-m	Locked Rotor Torque %f.l.t	Pull Up Torque %f.l.t	Break Down Torque %f.l.t	
		2	63	3330	67.0	81.0	0.90	4.1	0.055	310	305	340	0.002
0.25	0.18	4	63	1695	70.6	70.5	1.04	4.1	0.108	283	280	287	0.002
		6	71	1120	66.0	67.0	1.11	5.0	0.162	230	210	275	0.007
		2	71	3340	75.0	86.0	1.54	10.0	0.109	270	240	270	0.002
0.5	0.37	4	71	1690	71.0	72.5	2.00	9.0	0.211	320	235	299	0.005
		6	80	1120	70.0	69.0	2.03	10.0	0.324	200	195	210	0.009
		2	80	3400	77.0	91.0	2.62	17.0	0.213	255	220	219	0.005
1	0.75	4	80	1720	81.0	79.2	3.40	20.0	0.422	246	260	219	0.010
		6	90L	1130	78.5	72.5	3.44	20.0	0.642	180	165	220	0.017
		2	90L	3440	82.5	88.0	5.10	35.6	0.434	260	240	309	0.010
2	1.5	4	90L	1720	85.0	84.0	5.50	33.0	0.845	225	160	290	0.017
		6	100L	1145	85.5	72.0	6.36	40.0	1.268	230	205	260	0.059
		2	90L	3440	84.0	89.0	7.60	55.0	0.629	280	250	350	0.013
3	2.2	4	100L	1720	86.5	84.0	8.50	70.0	1.267	270	220	300	0.041
		6	112M	1165	86.5	71.0	9.60	60.0	1.869	180	170	280	0.084
		2	112M	3495	86.5	91.0	12.8	110	1.056	270	250	318	0.038
5	3.7	4	112M	1730	87.5	85.5	13.5	90.0	2.112	209	165	260	0.059
		6	132S	1170	86.5	76.0	14.9	95.0	3.102	190	175	290	0.131
		2	132S	3505	88.5	89.0	18.5	135.0	1.553	230	190	255	0.063
7.5	5.5	4	132S	1740	88.5	84.0	21.0	150.0	3.167	275	200	285	0.103
		6	132M	1165	88.5	78.5	21.1	150.0	4.673	200	175	300	0.189
		2	132S	3510	88.5	85.5	26.0	200.0	2.112	230	190	309	0.072
10	7.5	4	132M	1750	91.0	87.0	26.0	175.0	4.172	218	185	274	0.133
		6	160M	1170	88.5	78.0	28.4	220.0	6.204	280	225	290	0.420
		2	160M	3540	89.5	89.5	36.7	290.0	3.076	230	190	300	0.147
15	11	4	160M	1760	92.0	87.5	38.0	265.0	6.186	220	165	250	0.330
		6	160L	1165	89.5	79.0	41.5	285.0	9.346	260	220	250	0.588
		2	160M	3525	90.2	91.0	47.7	350.0	4.118	220	160	265	0.183
20	15	4	160L	1750	92.0	88.9	49.0	360.0	8.276	210	165	245	0.381
		6	180M	1175	90.0	81.0	54.0	365.0	12.355	245	205	250	1.054
		2	160L	3530	91.0	92.0	58.5	465.0	5.141	240	175	280	0.237
25	18.5	4	180M	1760	91.7	86.0	62.1	440.0	10.310	220	205	250	0.657
		6	180L	1175	91.0	82.0	65.6	450.0	15.444	230	185	250	1.342
		2	180M	3530	91.0	88.0	73.3	520.0	6.160	220	185	265	0.270
30	22	4	180M	1760	91.7	85.5	74.9	535.0	12.373	240	195	260	0.715
		6	180L	1175	91.0	81.0	79.7	540.0	18.533	235	175	250	1.438
		2	180L	3535	91.0	88.0	97.8	700.0	8.213	235	195	270	0.340
40	30	4	180L	1750	92.5	88.0	96.3	615.0	16.591	205	170	235	0.810
		6	200L	1180	92.5	85.0	100.0	670.0	24.605	225	195	240	2.326
		2	200L	3555	91.7	87.5	122.0	945.0	10.209	160	150	300	0.905
50	37	4	200L	1775	92.4	83.0	128.0	830.0	20.447	200	180	250	1.481
		6	200L	1180	92.4	86.0	123.0	845.0	30.757	220	195	230	2.907
		2	200L	3555	92.4	89.0	143.0	1085.0	12.251	150	135	270	1.074
60	45	4	200L	1775	93.0	84.5	149.0	1050.0	24.536	200	180	250	1.731
		6	225S	1180	93.0	96.0	147.0	0965.0	36.908	200	180	230	4.194
		2	225S	3560	93.0	88.0	179.0	1230.0	15.292	150	140	300	1.211
75	55	4	225S	1780	93.3	84.0	187.0	1235.0	30.584	230	185	220	2.897
		6	225S	1185	93.0	82.0	193.0	1450.0	45.940	195	180	290	6.492
		2	250S	3560	93.6	89.5	234.0	1640.0	20.389	130	120	280	1.759
100	75	4	250S	1780	94.1	88.5	235.0	1570.0	40.779	150	150	250	4.853
		6	250M	1185	93.6	83.5	250.0	1700.0	61.254	185	180	260	7.694

SAMT
Specialised Air Motors and Transmission

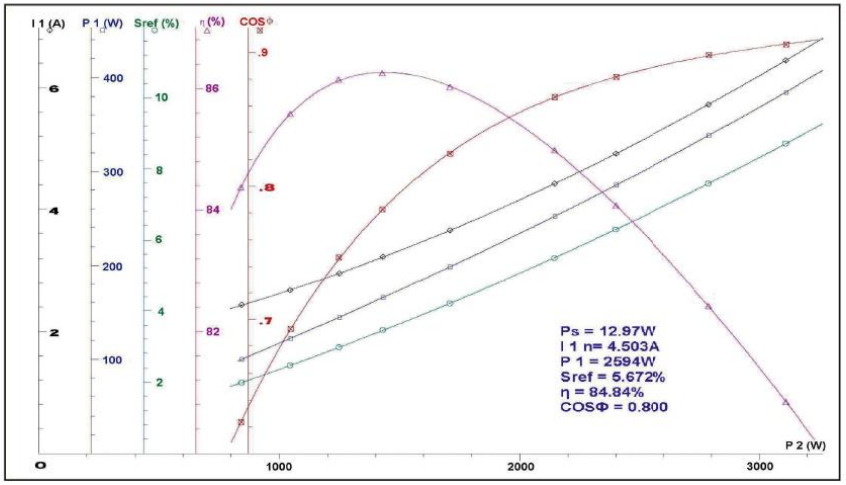
1.0 50HZ TOTALLY ENCLOSED,AMBIENT40,CONTIUNOUS DUTY,SERVICE FACTOR S.F. : 1.0 50HZ

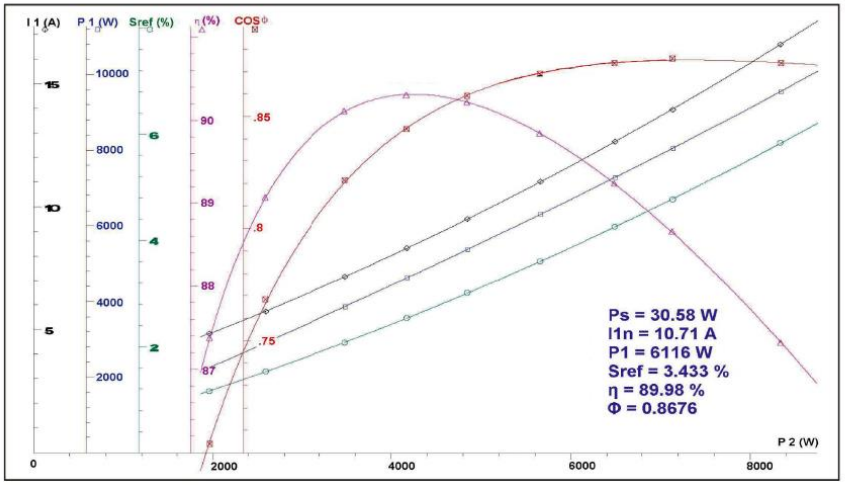
Output		Pole	Frame	Full Load Speed RPM	Efficency	Power Factor	Current		Torque				Rotor GD Kg-m²
HP	KW			RPM	Full Load (%)	Full Load (%)	Full Load (%)	Start (A)	Full Load Torque Kg-m	Locked Rotor Torque %f.l.t	Pull Up Torque %f.l.t	Break Down Torque %f.l.t	
		2	63	2705	66.0	84.0	0.88	6.0	0.067	290	290	290	0.002
0.25	0.18	4	63	1395	65.0	63.0	1.20	6.0	0.130	315	280	295	0.002
		6	71	915	61.5	66.5	1.20	6.0	0.198	235	210	240	0.007
		2	71	3370	76.0	86.0	1.50	10.0	0.108	270	240	270	0.002
0.5	0.37	4	71	1405	70.5	62.0	2.24	12.0	0.258	345	300	325	0.005
		6	80	925	64.5	66.5	2.28	12.0	0.392	215	190	235	0.009
		2	80	2795	77.0	87.5	2.91	20.0	0.260	245	220	265	0.005
1	0.75	4	80	1415	75.0	67.0	3.90	25.0	0.513	355	320	350	0.010
		6	90L	945	74.0	63.0	4.20	20.0	0.768	210	210	275	0.017
		2	90L	2855	82.5	84.0	5.65	45.0	0.508	290	270	330	0.010
2	1.5	4	90L	1425	80.0	76.0	6.44	45.0	1.019	260	230	300	0.017
		6	100L	950	82.5	70.0	6.78	45.0	1.528	275	260	285	0.059
		2	90L	2825	84.0	86.5	8.08	65.0	0.771	285	300	325	0.013
3	2.2	4	100L	1445	84.5	78.0	8.91	80.0	1.507	355	315	360	0.041
		6	112M	970	84.5	62.0	11.2	75.0	2.245	250	245	350	0.077
		2	112M	2895	86.5	87.0	13.0	120.0	1.254	305	285	360	0.038
5	3.7	4	112M	1440	85.0	82.0	14.0	110.0	2.520	220	195	290	0.058
		6	132S	960	86.0	78.0	14.6	110.0	3.781	170	165	260	0.131
		2	132S	2890	87.5	88.0	11.0	93.0	1.884	210	180	260	0.063
7.5	5.5	4	132S	1450	86.5	81.0	12.1	93.0	3.754	250	220	290	0.104
		6	132M	965	87.0	79.5	12.3	93.0	5.641	200	185	275	0.189
		2	132S	2905	88.5	81.0	15.8	116.0	2.499	280	260	315	0.072
10	7.5	4	132M	1445	86.5	86.0	15.2	116.0	5.023	240	185	250	0.143
		6	160M	970	88.5	77.5	16.5	116.0	7.483	280	250	300	0.420
		2	160M	2925	89.0	91.0	21.0	168.0	3.722	210	160	250	0.154
15	11	4	160M	1460	89.0	85.5	22.3	168.0	7.457	225	175	265	0.330
		6	160L	965	89.0	81.0	23.6	168.0	11.283	270	240	260	0.616
		2	160M	2925	90.0	91.0	27.7	208.0	4.963	225	165	260	0.205
20	15	4	160L	1455	88.0	88.0	29.3	208.0	9.977	230	170	260	0.396
		6	180M	970	89.0	82.5	30.9	208.0	14.966	210	155	230	1.054
		2	160L	2925	91.0	91.0	34.2	278.0	6.204	260	195	295	0.237
25	18.5	4	180M	1460	90.5	85.5	36.6	266.0	12.429	210	160	240	0.657
		6	180L	970	90.0	83.0	37.9	266.0	18.708	225	185	250	1.342
		2	180M	2925	90.5	91.0	41.3	318.0	7.445	215	165	250	0.302
30	22	4	180M	1460	90.0	84.5	44.7	318.0	14.915	210	160	250	0.715
		6	180L	970	89.0	81.0	47.2	318.0	22.449	240	190	240	1.435
		2	180L	2925	91.0	90.0	55.4	399.0	9.926	230	170	270	0.358
40	30	4	180L	1455	91.0	87.0	57.3	397.0	19.955	220	180	250	0.926
		6	200L	980	92.0	85.0	58.0	397.0	29.627	220	175	230	2.558
		2	200L	2950	91.5	89.0	69.6	501.0	12.303	150	135	290	0.905
50	37	4	200L	1475	92.0	83.0	74.2	463.0	24.605	175	160	240	1.481
		6	200L	980	92.0	86.0	71.6	463.0	37.034	215	180	230	3.256
		2	200L	2955	92.0	90.0	82.1	593.0	14.738	150	140	290	1.074
60	45	4	200L	1475	93.0	82.0	89.2	582.0	29.526	190	165	260	1.731
		6	225S	980	92.0	86.5	85.5	582.0	44.440	200	175	220	4.194
		2	225S	2960	93.0	87.0	105.0	724.0	18.392	140	115	275	1.211
75	55	4	225S	1480	93.0	84.5	108.0	724.0	36.783	195	160	230	2.897
		6	250S	985	93.0	81.0	113.0	779.0	55.268	190	175	305	6.492
		2	250S	2960	93.0	89.0	137.0	973.0	24.522	130	110	285	1.759
100	75	4	250S	1480	94.0	88.0	137.0	926.0	49.044	170	145	255	4.853
		6	250M	980	93.0	83.0	147.0	952.0	74.067	180	155	280	7.694

Note: 1. All motors are tested per JIS C4212 IEEE112 method B standard CNS 14400
2. All above numbers are actual testing numbers.
3. The tolerance of performance is IEC 34-1(The assured lowest numbers of efficiency are conformed to CNS 14400)
4.) Photos or specifications are subject to change without notice.

PERFORMANCE TEST REPORT

Specialised Air Motors and Transmission





Information	Report No.		20090506001		Customer		Test Date	2009 / 05 / 06
Output	3 HP / 2.200 kW		Pole	2P	Mode I		Frame	90L
Phase	3Ø	Protection Class	IP55	Rated Voltage	380V		Hertz	60Hz
ISO. Class	F	Duty	S1	Rated Current	4.85A		Rated Speed	3400 r/m
Efficiency	84.8	Power Factor	0.870	Test Current	4.530A		Test Speed	3395.8 r/m

Load	V	Hz	Input / W	Output / W	A	RPM	N.m	P.F	E.F.F%
0%	380	60	112.7	0	1.879		0	0.0911	0
25%	380	60	683.9	550.0	2.110	3552.4	1.478	0.493	80.42
50%	380	60	1282	1100	2.751	3506.2	2.996	0.708	85.80
75%	380	60	1916	1650	3.562	3454.0	4.562	0.817	86.12
100%	380	60	2594	2200	4.530	3395.8	6.186	0.870	84.81
125%	380	60	3329	2750	5.645	3331.6	7.882	0.896	82.61
150%	380	60	4133	3300	6.896	3261.4	9.662	0.911	79.86

Stator I^2R Loss	157.5W			Max. Torque	22.84 N.m
Rotor I^2R Loss	134.9W			Max. Output	%
Core Loss	58.50W			Locked Current	34.14A
Stray-load Loss	12.97W			Locked Torque	28.33 N.m
Mechanical Loss	30.60W			Slip	5.672%
Temperature Rise	R1	3.8440 Ω	T1	°C RM 49K	mm / s
	R2	4.8013 Ω	T2	23.6°C TM 53.6°C	dB
Hot Isu. Resistance	500MΩ / 500V DC			Direlectric Hi-V	1760 V/MIN

Note:
1. All motors are tested per JIS C4212 IEEE112 method B standard CNS 14400
2. All above numbers are real testing numbers.
3. The tolerance of performance is IEC 34-1
   (The assured lowest numbers of efficiency are conformed to CNS 14400)
4.) Photos or specifications are subject to change without notice.

Information	Report No.		20090621002		Customer	IEC		Test Date	2009 / 06 / 12
Output	7.5 HP / 5.500 kW		Pole	2P	Mode I			Frame	132S
Phase	3Ø	Protection Class	IP55	Rated Voltage	380V			Hertz	50Hz
ISO. Class	F	Duty	S1	Rated Current	11.3A			Rated Speed	2845 r/m
Efficiency	90.4	Power Factor	0.871	Test Current	10.61A			Test Speed	2911.4 r/m

Load	V	Hz	Input / kW	Output / kW	A	RPM	N.m	P.F	E.F.F%
0%	380	50	231.2	0	3.073		0	0.1143	0
25%	380	50	1633	1375	4.028	2978.4	4.408	0.616	84.20
50%	380	50	3070	2750	5.981	2958.4	8.876	0.780	89.58
75%	380	50	4550	4125	8.180	2936.1	13.42	0.845	90.66
100%	380	50	6081	5500	10.61	2911.4	18.04	0.871	90.45
125%	380	50	7673	6875	13.27	2884.3	22.76	0.878	89.60
150%	380	50	9336	8250	16.13	2854.8	27.60	0.879	88.37

Stator I^2R Loss	158.5W			Max. Torque	56.79 N.m
Rotor I^2R Loss	172.1W			Max. Output	%
Core Loss	96.56W			Locked Current	79.72A
Stray-load Loss	30.40W			Locked Torque	40.17N.m
Mechanical Loss	123.3W			Slip	2.954%
Temperature Rise	R1	0.712 Ω	T1	30.5°C RM 39K	mm / s
	R2	.82629 Ω	T2	31.5°C TM 59.7°C	dB
Hot Isu. Resistance	500MΩ / 500V DC			Direlectric Hi-V	1760 V/MIN

Note:
1. All motors are tested per JIS C4212 IEEE112 method B standard CNS 14400
2. All above numbers are real testing numbers.
3. The tolerance of performance is IEC 34-1
   (The assured lowest numbers of efficiency are conformed to CNS 14400)
4.) Photos or specifications are subject to change without notice.

INVERTER DUTY MOTOR –
AEHLQS / AEULQS / EEEF / EEVF / EREF / ERVF PERFORMANCE DATA

SAMT
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AEHLQS

SAMT
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EEVF

HIGH EFFICIENCY

LOW VIBRATION

LOW NOISE

TYPE	THREE PHASE INDUCTION MOTOR
DESIGN	IEC ، CNS
VOLTAGE	220V, 380V, 440V
FREQUENCY	50Hz 60Hz
HORSE POWER	1/4 ~ 125HP
RATING	S.F.: 1.15
FRAME	63 ~ 250M
PROTECTION	IP54
COOLING	TEFC WITH COOLING FAN
INSTALLATION	AEHL QS: ، AEULQS:
TORQUE CHARACTERISTICS	3:1 (CONSTANT TORQUE) 20:1 (STEP-DOWN TORQUE)
POWER SOURCE	±10% (POWER PATING) ±5% (FREQUENCY PATING)
PLACE	INSIDE
TEMPERATURE	-15°C ~ 40°C (AMBIT)
HUMADITY	90% UNDER 90°C
ELEVATION	UNDER 1,000 METER
TRANSMISSION	DIRECT COUPLED OR BELT DRIVE
ROTATION	CW / CCW
START	DIRECT START

HP	KW	Pole	Frame	RPM	(%)	3/4 (%)	1/2 (%)	(%)	3/4 (%)	1/2 (%)	(A)	(A)	Kg-m	%FLT	%FLT	%FLT	Kg-m²	(%)
		2	63	3305	68.0	66.5	61.0	80.5	72.5	60.0	0.89	5.00	0.055	305	305	320	0.002	68.0
0.25	0.18	4	63	1655	68.5	67.5	63.0	64.0	54.5	42.0	1.12	5.00	0.110	280	260	265	0.002	68.0
		6	71	1120	66.0	64.0	58.5	67.0	57.0	45.5	1.11	5.00	0.162	230	210	275	0.007	66.5
		2	71	3370	76.0	74.5	70.0	86.0	79.0	68.0	1.50	10.0	0.108	270	240	270	0.002	76.0
0.5	0.37	4	71	1685	73.5	73.5	70.0	71.0	61.0	48.0	1.88	15.0	0.215	280	235	300	0.005	73.5
		6	80	1115	70.0	70.0	65.0	69.0	60.0	47.0	2.03	10.0	0.325	200	195	210	0.009	72.0
		2	80	3350	77.5	78.0	76.0	87.0	83.0	72.0	2.90	20.0	0.217	230	220	250	0.005	78.0
1	0.75	4	80	1705	82.0	82.0	79.0	77.0	70.0	57.0	3.10	20.0	0.426	300	270	300	0.010	82.0
		6	90L	1135	79.0	79.0	76.5	70.5	62.0	49.5	3.52	20.0	0.640	180	165	240	0.017	79.0
		2	90L	3420	83.5	83.5	81.5	87.0	83.0	73.0	5.39	45.0	0.424	260	240	300	0.010	83.5
2	1.5	4	90L	1710	83.5	84.0	83.0	84.0	78.0	66.0	5.58	40.0	0.849	220	170	280	0.017	84.0
		6	100L	1145	85.5	85.0	84.0	72.0	65.0	52.0	6.36	40.0	1.268	230	105	260	0.059	86.0
		2	90L	3410	84.0	84.0	82.0	88.0	85.0	76.0	7.95	65.0	0.639	280	250	290	0.013	84.5
3	2.2	4	100L	1730	86.5	86.0	85.5	83.0	78.0	68.0	8.18	70.0	1.259	295	220	300	0.041	88.0
		6	112M	1165	86.0	86.0	83.5	70.0	63.0	51.5	9.76	70.0	1.869	180	170	280	0.077	87.0
		2	112M	3475	86.5	86.0	85.0	90.0	88.0	81.5	12.6	110	1.044	270	250	300	0.038	87.5
5	3.7	4	112M	1730	86.5	87.0	86.5	84.0	81.0	73.0	13.5	90.0	20.98	200	165	250	0.061	87.0
		6	132S	1165	87.0	86.0	83.5	76.0	69.5	58.0	14.8	95.0	3.115	190	175	290	0.131	87.0
		2	132S	3500	89.0	89.0	88.0	86.5	84.0	76.0	19.1	140	1.555	230	190	280	0.063	89.0
7.5	5.5	4	132S	1750	88.5	88.5	88.0	84.0	79.0	68.0	19.8	150	3.111	260	200	300	0.104	89.0
		6	132M	1165	89.0	88.5	87.5	78.5	72.5	61.0	21.0	150	4.673	200	175	300	0.189	89.0
		2	132S	3510	88.5	87.5	85.5	83.5	79.0	69.0	26.5	210	2.068	250	220	320	0.072	89.0
10	7.5	4	132M	1740	88.5	89.5	89.5	87.0	84.0	76.0	25.4	195	4.172	230	185	270	0.143	89.5
		6	160M	1170	90.0	87.5	86.0	78.0	72.0	60.0	27.9	220	6.204	280	225	290	0.420	90.0
		2	160M	3530	90.0	88.0	86.5	89.5	86.5	79.0	36.5	290	3.084	220	190	280	0.154	90.5
15	11	4	160M	1760	90.0	90.0	89.5	86.5	84.0	77.5	37.7	285	6.186	220	165	260	0.330	91.0
		6	160L	1165	90.5	90.5	90.0	79.0	75.0	66.0	41.1	285	9.346	260	220	250	0.616	90.5
		2	160M	3525	90.5	91.0	90.0	91.0	90.0	84.0	47.5	360	4.118	220	160	265	0.205	92.0
20	15	4	160L	1755	90.5	90.5	90.0	87.5	85.0	77.5	49.4	360	8.272	230	165	260	0.396	91.0
		6	180M	1175	90.5	90.0	89.5	81.0	77.0	67.0	53.4	365	12.355	245	205	250	1.054	90.5
		2	160L	3530	91.0	91.5	90.5	92.0	92.0	85.5	58.5	465	5.141	240	175	280	0.237	92.0
25	18.5	4	180M	1760	92.0	91.5	91.0	86.0	83.5	76.0	61.9	440	10.310	220	205	250	0.657	92.0
		6	180L	1175	91.5	91.0	90.0	82.0	79.0	70.0	65.2	450	15.444	230	185	250	1.342	91.5
		2	180M	3535	91.0	91.0	89.5	88.0	85.5	79.0	73.3	520	6.160	220	185	265	0.302	92.0
30	22	4	180M	1760	91.5	92.0	91.0	85.5	83.0	75.0	75.1	535	12.373	240	195	260	0.715	92.5
		6	180L	1175	91.5	91.5	91.0	81.0	77.5	69.0	79.2	540	18.533	235	175	250	1.435	91.5
		2	180L	3535	91.0	91.5	91.0	88.0	86.0	80.0	97.8	700	8.213	235	195	270	0.358	93.0
40	30	4	180L	1750	92.5	92.5	92.0	88.0	87.0	82.5	96.2	690	16.591	220	180	250	0.810	92.5
		6	200L	1180	92.5	91.5	91.0	85.0	82.0	74.5	100	670	24.605	225	195	240	2.558	92.5
		2	200L	3555	92.0	92.0	91.0	87.5	85.0	77.5	122	945	10.209	160	150	270	0.905	93.5
50	37	4	200L	1775	93.0	93.0	92.5	83.0	79.0	71.0	127	830	20.447	200	180	250	1.481	94.0
		6	200L	1180	93.0	92.5	91.5	86.0	83.0	75.5	122	845	30.757	220	195	230	3.256	93.0
		2	200L	3555	92.0	91.5	90.0	89.0	87.0	81.5	143	1085	12.251	150	135	270	1.074	93.5
60	45	4	200L	1775	93.5	93.5	93.0	84.5	82.0	74.0	149	1050	24.536	200	180	250	1.731	94.0
		6	225S	1180	93.0	92.5	92.5	86.0	84.0	77.5	147	965	36.908	200	180	230	4.194	94.0
		2	225S	3560	93.0	93.0	92.0	88.0	86.0	80.0	179	1230	15.292	150	140	300	1.211	94.5
75	55	4	225S	1780	93.5	93.0	92.5	84.0	81.5	75.0	187	1235	30.584	230	185	220	2.897	94.0
		6	250S	1185	93.5	92.5	91.5	82.0	77.5	68.0	192	1450	45.940	195	180	290	6.492	94.0
		2	250S	3560	93.5	93.5	93.0	89.5	88.5	84.5	234	1640	20.389	130	120	280	1.759	94.5
100	75	4	250S	1780	94.0	93.5	93.5	88.5	86.5	81.0	235	1570	40.779	150	150	250	4.853	94.5
		6	250M	1185	94.0	93.5	93.0	83.5	80.5	72.0	249	1700	61.254	185	180	260	7.694	94.0
		2	250M	3570	94.5	94.0	93.0	90.0	89.0	85.5	288	2180	25.415	150	130	300	2.111	95.0
125	90	4	250M	1780	94.0	93.0	92.0	87.0	84.5	77.5	299	2080	50.973	170	170	250	5.033	94.5
		6	280S	1182	94.3	93.6	92.3	84.5	81.5	73.5	148	1000	74.0	180	150	220	13.2	94.5

INVERTER DUTY MOTOR - AEHLQS SERIES

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FIG.1

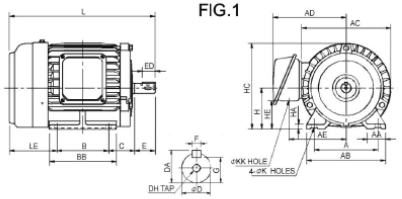


FIG.2

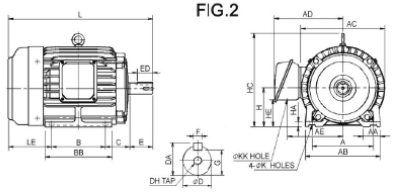


FIG.3

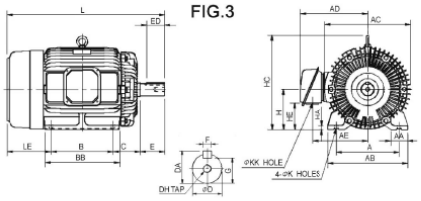


FIG.4

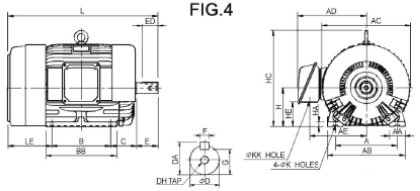
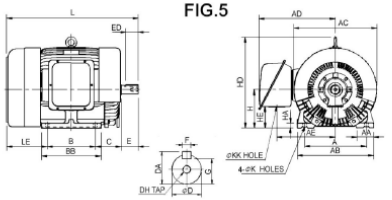


FIG.5



mm

(HP) 2P	(HP) 4P	(HP) 6P	Frame Size	Fig. No.	A	AA	AB	AC	AD	AE	B	BA	BB	C	H	HA	HC	HD
0.25	0.25	-	63	1	100	28.0	120	144	123	93	80	–	100	40	63	8.0	135.0	–
0.5	0.5	0.25	71		112	35.5	140	162	133	103	90	–	115	45	71	8.0	152.0	–
1	1	0.5	80		125	35.5	155	177	144	112	100	–	130	50	80	9.0	168.5	–
2 3	2	1	90L		140	35.5	170	200	157	125	125	–	150	56	90	10.0	190.0	–
-	3	2	100L	2	160	45.0	195	219	180	145	140	–	175	63	100	12.5	–	243
5	5	3	112M		190	45.0	224	238	189	154	140	–	175	70	112	14.0	–	265
7.5 10	7.5	5	132S		216	45.0	250	273	225	180	140	–	175	89	132	16.0	–	310
-	10	7.5	132M		216	45.0	250	273	225	180	178	–	212	89	132	16.0	–	310
15 20	15	10	160M	3	254	50.0	300	334	263	218	210	–	250	108	160	18.0	–	377
25	20	15	160L		254	50.0	300	334	263	218	254	–	300	108	160	18.0	–	377
30	-	-	180MC	4	279	75.0	355	382	305	250	241	–	297	121	180	20.0	–	431
-	25 30	20	180MA	3	279	75.0	355	382	305	250	241	–	297	121	180	20.0	–	431
40	-	-	180LA	4	279	75.0	355	382	305	250	279	–	335	121	180	20.0	–	431
-	40	25 30	180LC	3	279	75.0	355	382	305	250	279	–	335	121	180	20.0	–	431
50 60	-	-	200LA	4	318	80.0	400	458	362	299	305	–	365	133	200	25.0	–	499
-	50 60	40 50	200LC		318	80.0	400	458	362	299	305	–	365	133	200	25.0	–	499
75	-	-	225SA	4	356	100.0	450	510	411	337	286	–	350	149	225	30.0	–	550
-	75	60	225SC		356	100.0	450	510	411	337	286	–	350	149	225	30.0	–	550
100	-	-	250SA	5	406	110.0	500	545	499	384	311	–	385	168	250	32.0	–	612
-	100	75	250SC		406	110.0	500	545	499	384	311	–	385	168	250	32.0	–	612
125	-	-	250MA		406	110.0	500	545	499	384	349	–	425	168	250	32.0	–	612
-	125	100	250MC		406	110.0	500	545	499	384	349	–	425	168	250	32.0	–	612

mm

HE	K	KK	L	LE	Shaft End D	Shaft End E	Shaft End ED	Shaft End F	Shaft End G	Shaft End GA	Shaft End DH	Bearing Load Side	Bearing Out of Load Side	KGS
29	7.0	22	219.0	76.0	11	23	18	4	8.5	12.5	M4X8	6201ZZ	6201ZZ	8.5
54	7.0	22	250.5	85.5	14	30	24	5	11.0	16.0	M5X10	6203ZZ	6202ZZ	11.5
55	10.0	22	282.5	92.5	19	40	25	6	15.5	21.5	M6X12	6204ZZ	6203ZZ	17.0
65	10.0	22	332.5	101.5	24	50	32	8	20.0	27.0	M8X16	6205ZZ	6204ZZ	24.0
71	12.0	28	374.5	111.5	28	60	40	8	24.0	31.0	M10X20	6206ZZ	6205ZZ	37.0
83	12.0	28	391.5	121.5	28	60	40	8	24.0	31.0	M10X20	6306ZZ	6305ZZ	46.0
83	12.0	35	454.0	145.0	38	80	64	10	33.0	41.0	M12X24	6308ZZ	6306ZZ	68.0
83	12.0	35	492.0	145.0	38	80	64	10	33.0	41.0	M12X24	6308ZZ	6306ZZ	79.0
108	14.5	35	608.0	180.0	42	110	80	12	37.0	45.0	M16X32	6309ZZ	6307ZZ	125.0
108	14.5	35	652.0	180.0	42	110	80	12	37.0	45.0	M16X32	6309ZZ	6307ZZ	140.0
119	14.5	52	672.0	200.0	48	110	80	14	42.5	51.5	M16X32	6311ZZC3	6310ZZC3	179.0
119	14.5	52	672.0	200.0	48	110	80	14	42.5	51.5	M16X32	6311ZZ	6310ZZ	195.0
119	14.5	52	710.0	200.0	55	110	80	16	49.0	59.0	M20X40	6312ZZC3	6310ZZC3	198.0
119	14.5	52	710.0	200.0	55	110	80	16	49.0	59.0	M20X40	6312ZZ	6310ZZ	223.0
129	18.5	65	774.5	226.5	55	110	80	16	49.0	59.0	M20X40	6312ZZC3	6212ZZC3	312.0
129	18.5	65	804.5	226.5	60	140	110	18	53.0	64.0	M20X40	6314ZZ	6312ZZ	324.0
153	18.5	92	786.0	241.0	55	110	80	16	49.0	59.0	M20X40	6312ZZC3	6312ZZC3	400.0
153	18.5	92	816.0	241.0	65	140	110	18	58.0	69.0	M20X40	6315ZZ	6313ZZ	412.0
139	24.0	92	852.5	263.5	55	110	80	16	49.0	59.0	M20X40	6313C3	6312ZZC3	449.0
139	24.0	92	882.5	264.0	75	140	110	20	67.5	79.5	M20X40	NU316	6313	508.0
139	24.0	92	890.5	263.5	55	110	80	16	49.0	59.0	M20X40	6313C3	6312ZZC3	517.0
139	24.0	92	920.5	264.0	75	140	110	20	67.5	79.5	M20X40	NU316	6313	575.0

Note:
1.) Tolerance of shaft Dia.D: Ø11 - Ø28: J6, Ø38 - Ø48: K6, Ø55 - Ø75: m6. 2.) Tolerance of shaft high H: +0.05 -0
3.) Photos or specifications are subject to change without notice.

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FIG.1

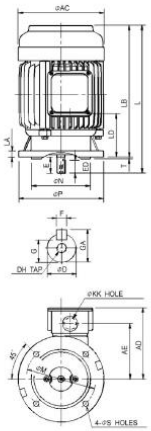


FIG.2

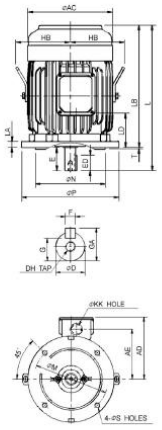


FIG.3

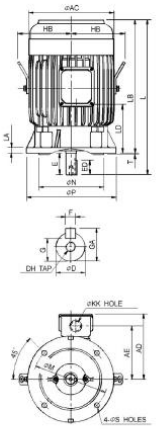


FIG.4

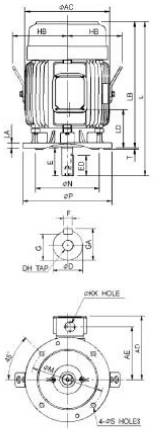


FIG.5

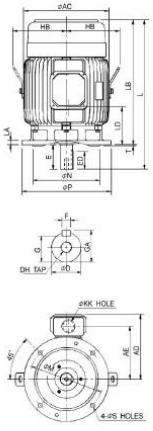


FIG.6

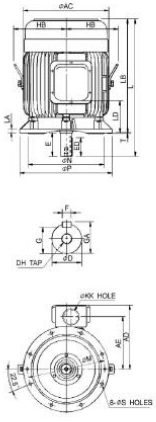
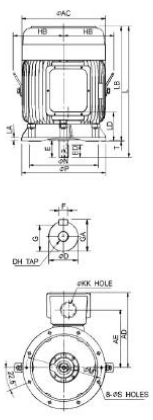


FIG.7



mm

(HP) 2P	(HP) 4P	(HP) 6P	Frame Size	Fig. No.	AC	AD	AE	HB	KK	L	LA	LB	LD	M	N	P
0.25	0.25	-	63	1	144	123	93	–	22	248.0	12	225.0	74.0	130	110	160
0.5	0.5	0.25	71		162	133	103	–	22	277.5	12	247.5	82.0	130	110	160
1	1	0.5	80	2	177	144	112	–	22	282.0	12	242.0	60.0	165	130	200
2 3	2	1	90L	3	200	157	125	–	22	371.5	12	321.5	113.	165	130	200
-	3	2	100L	2	219	180	145	140	28	374.5	16	314.5	88.0	215	180	250
5	5	3	112M	3	238	189	154	150	28	431.0	16	371.0	135.0	215	180	250
7.5 10	7.5	5	132S	2	273	224	180	169	35	454.0	20	374.0	97.0	265	230	300
-	10	7.5	132M		273	224	180	169	35	492.0	20	412.0	116.0	265	230	300
15 20	15	10	160M	4	334	263	218	217	35	608.0	20	498.0	151.0	300	250	350
25	20	15	160L		334	263	218	217	35	652.0	20	542.0	173.0	300	250	350
30	-	-	180MC	5	382	305	250	241	52	672.0	20	562.0	170.5	350	300	400
-	25 30	20	180MA		382	305	250	241	52	672.0	20	562.0	170.5	350	300	400
40	-	-	180LA		382	305	250	241	52	710.0	20	600.0	189.5	350	300	400
-	40	25 30	180LC		382	305	250	241	52	710.0	20	600.0	189.5	350	300	400
50 60	-	-	200LA	6	458	362	299	286	65	774.5	20	664.5	194.5	400	350	450
-	50 60	40 50	200LC		458	362	299	286	65	804.5	20	664.5	194.5	400	350	450
75	-	-	225SA	6	510	411	337	312	92	786.0	22	676.0	190.0	500	450	550
-	75	60	225SC		510	411	337	312	92	816.0	22	676.0	190.0	500	450	550
100	-	-	250SA	7	545	499	384	329.5	92	882.5	22	742.5	182.5	500	450	550
-	100	75	250SC		545	499	384	329.5	92	882.5	22	742.5	182.5	500	450	550
125	-	-	250MA		545	499	384	329.5	92	890.5	22	780.5	201.5	500	450	550
-	125	100	250MC		545	499	384	329.5	92	920.5	22	780.5	201.5	500	450	550

mm

S	T	Shaft End D	E	ED	EE	F	G	GA	DH	Bearing Load Side	Bearing Out of Load Side	KGS
10.0	3.5	11	23	18	18	4	8.5	12.5	M4X8	6201ZZ	6201ZZ	9.5
10.0	3.5	14	30	24	24	5	11.0	16.0	M5X10	6203ZZ	6202ZZ	12.5
12.0	3.5	19	40	25	25	6	15.5	21.5	M6X12	6204ZZ	6203ZZ	19.0
12.0	3.5	24	50	32	32	8	20.0	27.0	M8X16	6205ZZ	6204ZZ	27.0
14.5	4.0	28	60	40	40	8	24.0	31.0	M10X20	6206ZZ	6205ZZ	40.0
14.5	4.0	28	60	40	40	8	24.0	31.0	M10X20	6306ZZ	6305ZZ	51.0
14.5	4.0	38	80	64	64	10	33.0	41.0	M12X24	6308ZZ	6306ZZ	73.0
14.5	4.0	38	80	64	64	10	33.0	41.0	M12X24	6308ZZ	6306ZZ	84.0
18.5	5.0	42	110	80	80	12	37.0	45.0	M16X32	6309ZZ	6307ZZ	133.0
18.5	5.0	42	110	80	80	12	37.0	45.0	M16X32	6309ZZ	6307ZZ	148.0
18.5	5.0	48	110	80	80	14	42.5	51.5	M16X32	6311ZZC3	6310ZZC3	187.0
18.5	5.0	48	110	80	80	14	42.5	51.5	M16X32	6311ZZ	6310ZZ	203.0
18.5	5.0	55	110	80	80	16	49.0	59.0	M20X40	6312ZZC3	6310ZZC3	206.0
18.5	5.0	55	110	80	80	16	49.0	59.0	M20X40	6312ZZ	6310ZZ	231.0
18.5	5.0	55	110	80	80	16	49.0	59.0	M20X40	6312ZZC3	6212ZZC3	322.0
18.5	5.0	60	140	110	110	18	53.0	64.0	M20X40	6314ZZ	6312ZZ	334.0
18.5	5.0	55	110	80	80	16	49.0	59.0	M20X40	6312ZZC3	6312ZZC3	420.0
18.5	5.0	65	140	110	110	18	58.0	69.0	M20X40	6315ZZ	6313ZZ	432.0
18.5	5.0	55	110	80	80	16	49.0	59.0	M20X40	6313C3	6312ZZC3	469.0
18.5	5.0	75	140	110	110	20	67.5	79.5	M20X40	NU316	6313	528.0
18.5	5.0	55	110	80	80	16	49.0	59.0	M20X40	6313C3	6312ZZC3	537.0
18.5	5.0	75	140	110	110	20	67.5	79.5	M20X40	NU316	6313	595.0

Note:
1.) Tolerance of shaft Dia.D: Ø11 - Ø28: J6, Ø38 - Ø48: K6, Ø55 - Ø75: m6. 2.) Tolerance of flange lead diameter N: h7
3.) Photos or specifications are subject to change without notice.

FORCED FAN COOLED INVERTER DUTY MOTOR - EEEF SERIES

Specialised Air Motors and Transmission

FIG.1

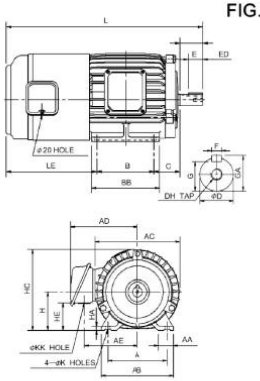


FIG.2

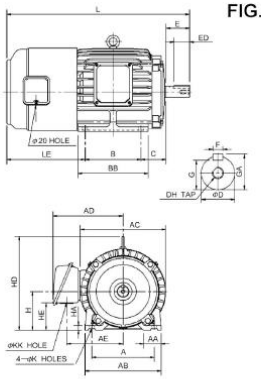


FIG.3

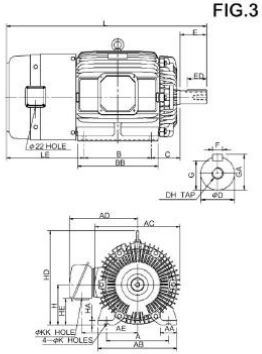
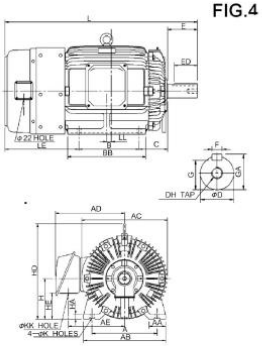


FIG.4



mm

(HP)			Frame Size	Fig. No.	A	AA	AB	AC	AD	AE	B	BA	BB	C	H	HA	HC	HD
2P	4P	6P																
0.5	0.5	0.25	71	1	112	35.5	140	164	145	103	90	---	115	45	71	8.0	152	---
1	1	0.5	80	1	125	35.5	155	177	152	112	100	---	130	50	80	9.0	168	---
2 3	2	1	90L	1	140	35.5	170	200	163	125	125	---	150	56	90	10.0	190	---
---	3	2	100L	2	160	45.0	195	219	180	145	140	---	175	63	100	12.5	---	243
5	5	3	112M	2	190	45.0	224	238	189	154	140	---	175	70	112	14.0	---	265
7.5 10	7.5	5	132S	2	216	45.0	250	273	225	180		---	175	89	132	16.0	---	310
---	10	7.5	132M	2	216	45.0	250	273	225	180		---	212	89	132	16.0	---	310
15 20	15	10	160M	3	254	50.0	300	334	263	218	210	---	250	108	160	18.0	---	377
25	20	15	160L	3	254	50.0	300	334	263	218	254	---	300	108	160	18.0	---	377
30	---	---	180MA	3	279	75.0	355	382	305	250		---	297	121	180	20.0	---	431
---	25 30	20	180MC	3	279	75.0	355	382	305	250		---	297	121	180	20.0	---	431
40	---	---	180LA	3	279	75.0	355	382	305	250		---	335	121	180	20.0	---	431
---	40	25 30	180LC	3	279	75.0	355	382	305	250		---	335	121	180	20.0	---	431
50 60	---	---	200LA	4	318	80.0	400	420	342	279	305	---	365	133	200	25.0	---	469
---	50 60	40 50	200LC	4	318	80.0	400	420	342	279	305	---	365	133	200	25.0	---	469
75	---	---	225SA	4	356	90.0	450	458	386	312		---	350	149	225	30.0	---	524
---	75	60	225SC	4	356	90.0	450	458	386	312		---	350	149	225	30.0	---	524
100	---	---	250SA	4	406	100.0	500	510	479	364	311	---	425	168	250	36.0	---	575
---	100	75	250SC	4	406	100.0	500	510	479	364	311	---	425	168	250	36.0	---	575
125	---	---	250MA	4	406	100.0	500	510	479	364	349	---	480	168	250	36.0	---	575
---	125	100	250MC	4	406	100.0	500	510	479	364	349	---	480	168	250	36.0	---	575

mm

HE	K	KK	L	LE	LL	Shaft End								Bearing		KGS
						D	E	FF	ED	F	G	GA	DH	Load Side	Out of Load Side	
54	7	22	345	180	---	14	30	---	24	5	11.0	16.0	M5X10	6202ZZ	6202ZZ	12.0
55	10	22	373	183	---	19	40	---	25	6	15.5	21.5	M6X12	6204ZZ	6204ZZ	16.0
65	10	22	427	196	---	24	50	---	32	8	20.0	27.0	M8X16	6205ZZ	6205ZZ	24.0
71	12	28	461	198	---	28	60	---	40	8	24.0	31.0	M10X20	6206ZZ	6305ZZ	33.0
83	12	28	493	223	---	28	60	---	40	8	24.0	31.0	M10X20	6306ZZ	6306ZZ	43.0
83	12	35	538	229	---	38	80	---	64	10	33.0	41.0	M12X24	6308ZZ	6306ZZ	63.0
83	12	35	576	229	---	38	80	---	64	10	33.0	41.0	M12X24	6308ZZ	6306ZZ	79.0
108	14.5	35	743	315	---	42	110	---	80	12	37.0	45.0	M16X32	6309ZZ	6307ZZ	127.0
108	14.5	35	787	315	---	42	110	---	80	12	37.0	45.0	M16X32	6309ZZ	6307ZZ	149.0
119	14.5	52	800	328	---	48	110	---	80	14	42.5	51.5	M16X32	6311ZZC3	6310ZZC3	190.0
119	14.5	52	800	328	---	48	110	---	80	14	42.5	51.5	M16X32	6311ZZ	6310ZZ	187.0
119	14.5	52	838	328	---	55	110	---	80	16	49.0	59.0	M20X40	6312ZZC3	6310ZZC3	218.0
119	14.5	52	838	328	---	55	110	---	80	16	49.0	59.0	M20X40	6312ZZ	6310ZZ	220.0
128	18.5	65	863	315	---	55	110	---	80	16	49.0	59.0	M20X40	6312C3	6312ZZC3	292.0
128	18.5	65	893	315	---	60	140	---	110	18	53.0	64.0	M20X40	6314	6212ZZC3	324.0
153	18.5	92	1020	475	---	55	110	---	80	16	49.0	59.0	M20X40	6312C3	6212ZZC3	358.0
153	18.5	92	1050	475	---	65	140	---	110	18	58.0	69.0	M20X40	6315	6213ZZ	385.0
139	24	92	1115	526	19.0	55	110	---	80	16	49.0	59.0	M20X40	6313C3	6313C3	518.0
139	24	92	1145	526	19.0	75	140	---	110	20	67.5	79.5	M20X40	NU316	6313	532.0
139	24	92	1172	545	28.5	55	110	---	80	16	49.0	59.0	M20X40	6314C3	6313C3	522.0
139	24	92	1202	545	28.5	75	140	---	110	20	67.5	79.5	M20X40	NU320C3	6313	534.0

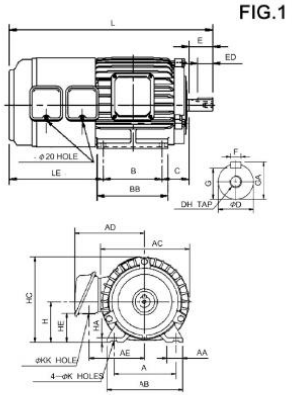
Note:

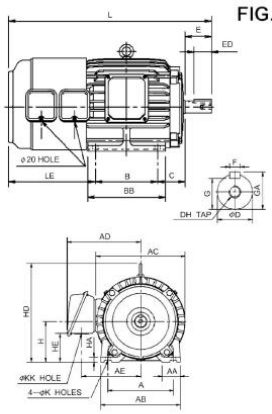
1.) Tolerance of shaft Dia.D: Ø11 - Ø28: J6, Ø38 - Ø48: K6, Ø55 - Ø75: m6. 2.) Tolerance of shaft high H: +0, -0.5

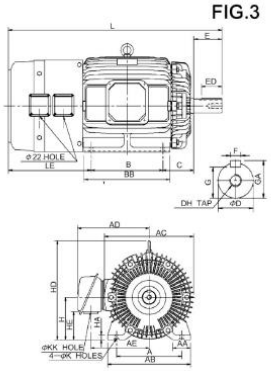
3.) Photos or specifications are subject to change without notice.

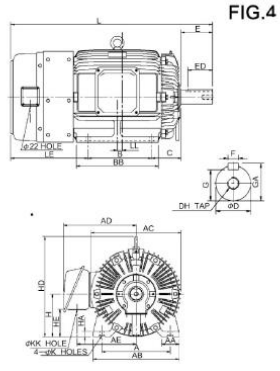
FORCED FAN COOLED INVERTER DUTY MOTOR - EREF SERIES

SAMT
Specialised Air Motors and Transmission









mm

(HP)			Frame Size	Fig. No.	A	AA	AB	AC	AD	AE	B	BA	BB	C	H	HA	HC	HD
2P	4P	6P																
0.5	0.5	0.25	71	1	112	35.5	140	164	145	103	90	---	115	45	71	8.0	152	---
1	1	0.5	80	1	125	35.5	155	177	152	112	100	---	130	50	80	9.0	168	---
2 3	2	1	90L	1	140	35.5	170	200	163	125	125	---	150	56	90	10.0	190	---
---	3	2	100L	2	160	45.0	195	219	180	145	140	---	175	63	100	12.5	---	243
5	5	3	112M	2	190	45.0	224	238	189	154	140	---	175	70	112	14.0	---	265
7.5 10	7.5	5	132S	2	216	45.0	250	273	225	180	140	---	175	89	132	16.0	---	310
---	10	7.5	132M	2	216	45.0	250	273	225	180	178	---	212	89	132	16.0	---	310
15 20	15	10	160M	3	254	50.0	300	334	263	218	210	---	250	108	160	18.0	---	377
25	20	15	160L	3	254	50.0	300	334	263	218	254	---	300	108	160	18.0	---	377
30	---	---	180MA	3	279	75.0	355	382	305	250	241	---	297	121	180	20.0	---	431
---	25 30	20	180MC	3	279	75.0	355	382	305	250	241	---	297	121	180	20.0	---	431
40	---	---	180LA	3	279	75.0	355	382	305	250	279	---	335	121	180	20.0	---	431
---	40	25 30	180LC	3	279	75.0	355	382	305	250	279	---	335	121	180	20.0	---	431
50 60	---	---	200LA	4	318	80.0	400	420	342	279	305	---	365	133	200	25.0	---	469
---	50 60	40 50	200LC	4	318	80.0	400	420	342	279	305	---	365	133	200	25.0	---	469
75	---	---	225SA	4	356	90.0	450	458	386	312	286	---	350	149	225	30.0	---	524
---	75	60	225SC	4	356	90.0	450	458	386	312	286	---	350	149	225	30.0	---	524
100	---	---	250SA	4	406	100.0	500	510	479	364	311	---	425	168	250	36.0	---	575
---	100	75	250SC	4	406	100.0	500	510	479	364	311	---	425	168	250	36.0	---	575
125	---	---	250MA	4	406	100.0	500	510	479	364	349	---	480	168	250	36.0	---	575
---	125	100	250MC	4	406	100.0	500	510	479	364	349	---	480	168	250	36.0	---	575

mm

HE	K	KK	L	LE	LL	Saft End								Bearing		KGS
						D	E	FF	ED	F	G	GA	DH	Load Side	Out of Load Side	
54	7.0	22	345	180	---	14	30	---	24	5	11.0	16.0	M5X10	6202ZZ	6202ZZ	13.0
55	10.0	22	373	183	---	19	40	---	25	6	15.5	21.5	M6X12	6204ZZ	6204ZZ	16.0
65	10.0	22	427	196	---	24	50	---	32	8	20.0	27.0	M8X16	6205ZZ	6205ZZ	24.0
71	12.0	28	461	198	---	28	60	---	40	8	24.0	31.0	M10X20	6206ZZ	6305ZZ	33.0
83	12.0	28	493	223	---	28	60	---	40	8	24.0	31.0	M10X20	6306ZZ	6306ZZ	44.0
83	12.0	35	538	229	---	38	80	---	64	10	33.0	41.0	M12X24	6308ZZ	6306ZZ	63.0
83	12.0	35	576	229	---	38	80	---	64	10	33.0	41.0	M12X24	6308ZZ	6306ZZ	80.0
108	14.5	35	743	315	---	42	110	---	80	12	37.0	45.0	M16X32	6309ZZ	6307ZZ	127.0
108	14.5	35	787	315	---	42	110	---	80	12	37.0	45.0	M16X32	6309ZZ	6307ZZ	149.0
119	14.5	52	800	328	---	48	110	---	80	14	42.5	51.5	M16X32	6311ZZC3	6310ZZC3	191.0
119	14.5	52	800	328	---	48	110	---	80	14	42.5	51.5	M16X32	6311ZZ	6310ZZ	188.0
119	14.5	52	838	328	---	55	110	---	80	16	49.0	59.0	M20X40	6312ZZC3	6310ZZC3	219.0
119	14.5	52	838	328	---	55	110	---	80	16	49.0	59.0	M20X40	6312ZZ	6310ZZ	221.0
128	18.5	65	891	343	---	55	110	---	80	16	49.0	59.0	M20X40	6312C3	6212ZZC3	295.0
128	18.5	65	921	343	---	60	140	---	110	18	53.0	64.0	M20X40	6314	6212ZZC3	328.0
153	18.5	92	1050	505	---	55	110	---	80	16	49.0	59.0	M20X40	6312C3	6212ZZC3	363.0
153	18.5	92	1080	505	---	65	140	---	110	18	58.0	69.0	M20X40	6315	6213ZZ	390.0
139	24.0	92	1156	567	19	55	110	---	80	16	49.0	59.0	M20X40	6313C3	6313C3	525.0
139	24.0	92	1186	567	19	75	140	---	110	20	67.5	79.5	M20X40	NU316	6313	538.0
139	24.0	92	1213	586	28.5	55	110	---	80	16	49.0	59.0	M20X40	6314C3	6313C3	527.0
139	24.0	92	1243	586	28.5	75	140	---	110	20	67.5	79.5	M20X40	NU316	6313	540.0

Note:
1.) Tolerance of shaft Dia.D: Ø11 - Ø28: J6, Ø38 - Ø48: K6, Ø55 - Ø75: m6. 2.) Tolerance of shaft high H: +0, -0.5
3.) Photos or specifications are subject to change without notice.

FORCED FAN COOLED INVERTER DUTY MOTOR - ERVF SERIES

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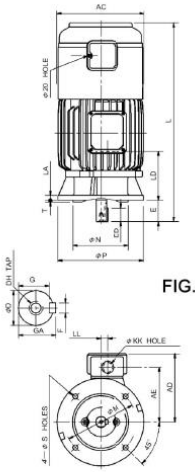

FIG.1

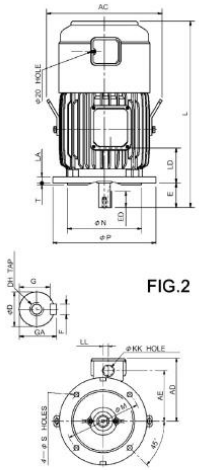

FIG.2

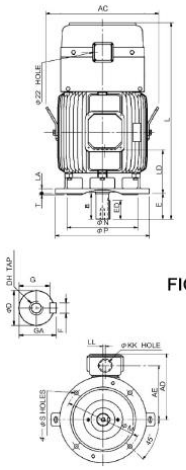

FIG.3

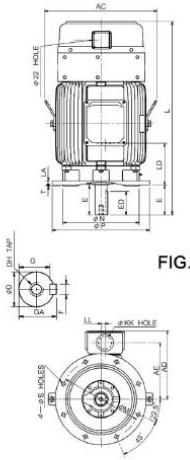

FIG.4

mm

(HP)			Frame Size	Fig. No.	AC	AD	AE	KK	L	LA	LD	LL	M	N	P
2P	4P	6P													
0.5	0.5	---	71	1	164	145	103	22	372	12	82	17	130	110	160
1	1	0.5	80	1	179	152	112	22	373	12	60	15	165	130	200
2 3	2	1	90L	1	200	163	125	22	466	12	113	15	165	130	200
---	3	2	100L	2	280	180	145	28	461	16	88	15	215	180	250
5	5	3	112M	2	299	189	154	28	533	16	135	15	215	180	250
7.5 10	7.5	5	132S	2	337	224	180	35	538	20	97	13	265	230	300
---	10	7.5	132M	2	337	224	180	35	576	20	116	13	265	230	300
15 20	15	10	160M	3	434	263	218	35	743	20	151	10	300	250	350
25	20	15	160L	3	434	263	218	35	787	20	173	10	300	250	350
30	---	---	180MA	3	482	305	250	52	800	20	170	10	350	300	350
---	25 30	20	180MC	3	482	305	250	52	800	20	170	10	350	300	400
40	---	---	180LA	3	482	305	250	52	838	20	189	10	350	300	400
---	40	25 30	180LC	3	482	305	250	52	838	20	189	10	350	350	400
50 60	---	---	200LA	4	520	362	299	65	863	20	194	20	350	350	400
---	50 60	40 50	200LC	4	520	362	299	65	893	20	194	20	400	450	450
75	---	---	225SA	4	572	411	337	92	1020	22	190	30	400	450	550
---	75	60	225SC	4	572	411	337	92	1050	22	190	30	500	450	550
100	---	---	250SA	4	624	499	384	92	1115	22	201	30	500	450	550
---	100	75	250SC	4	624	499	384	92	1145	22	201	30	500	450	550
125	---	---	250MA	4	624	499	384	92	1172	22	230	30	500	450	550
---	125	100	250MC	4	624	499	384	92	1020	22	230	30	500	450	550

mm

S	T	Y	Z	Shaft End								Bearing		KGS
				D	E	EE	ED	F	G	GA	DH	Load Side	Out of Load Side	
10.0	3.5	---	---	14	30	---	24	5	11.0	16.0	M5X10	6202ZZ	6202ZZ	15.0
12.0	3.5	---	---	19	40	---	25	6	15.5	21.5	M6X12	6204ZZ	6204ZZ	17.0
12.0	3.5	---	---	24	50	---	32	8	20.0	27.0	M8X16	6205ZZ	6205ZZ	29.0
14.5	4.0	---	---	28	60	---	40	8	24.0	31.0	M10X20	6206ZZ	6305ZZ	36.0
14.5	4.0	---	---	28	60	---	40	8	24.0	31.0	M10X20	6306ZZ	6306ZZ	48.0
14.5	4.0	---	---	38	80	---	64	10	33.0	41.0	M12X24	6308ZZ	6306ZZ	75.0
14.5	4.0	---	---	38	80	---	64	10	33.0	41.0	M12X24	6308ZZ	6306ZZ	86.0
18.5	5.0	---	---	42	110	---	80	12	37.0	45.0	M16X32	6309ZZ	6307ZZ	134.0
18.5	5.0	---	---	42	110	---	80	12	37.0	45.0	M16X32	6309ZZ	6307ZZ	156.0
18.5	5.0	---	---	48	110	---	80	14	42.5	51.5	M16X32	6311ZZC3	6310ZZC3	199.0
18.5	5.0	---	---	48	110	---	80	14	42.5	51.5	M16X32	6311ZZ	6310ZZ	195.0
18.5	5.0	---	---	55	110	---	80	16	49.0	59.0	M20X40	6312ZZC3	6310ZZC3	227.0
18.5	5.0	---	---	55	110	---	80	16	49.0	59.0	M20X40	6312ZZ	6310ZZ	229.0
18.5	5.0	---	---	55	110	---	80	16	49.0	59.0	M20X40	6312C3	6212ZZC3	302.0
18.5	5.0	---	---	60	140	---	110	18	53.0	64.0	M20X40	6314	6212ZZC3	334.0
18.5	5.0	---	---	55	110	---	80	16	49.0	59.0	M20X40	6312C3	6212ZZC3	373.0
18.5	5.0	---	---	65	140	---	110	18	58.0	69.0	M20X40	6315	6213ZZ	401.0
18.5	5.0	---	---	55	110	---	80	16	49.0	59.0	M20X40	6313C3	6313C3	538.0
18.5	5.0	---	---	75	140	---	110	20	67.5	79.5	M20X40	NU316	6313	552.0
18.5	5.0	---	---	55	110	---	80	16	49.0	59.0	M20X40	6314C3	6313C3	541.0
18.5	5.0	---	---	75	140	---	110	20	67.5	79.5	M20X40	NU316	6313	554.0

Note:
1.) Tolerance of shaft Dia.D: Ø11 - Ø28: J6, Ø38 - Ø48: K6, Ø55 - Ø75: m6. 2.) Tolerance of flange lead diameter N: h7.
3.) Photos or specifications are subject to change without notice.

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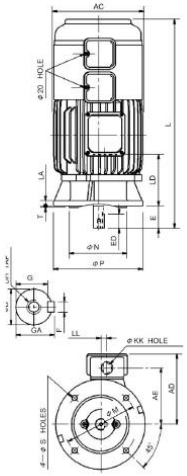

FIG.1

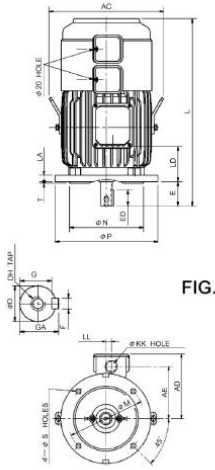

FIG.2

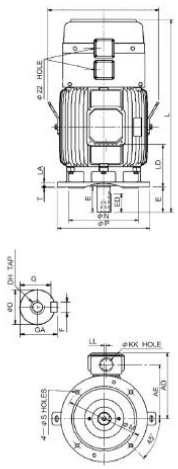

FIG.3

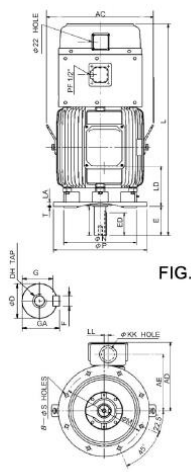

FIG.4

mm

(HP)			Frame Size	Fig. No.	AC	AD	AE	KK	L	LA	LD	LL	M	N	P
2P	4P	6P													
0.5	0.5	---	71	1	164	145	103	22	372	12	82	17	130	110	160
1	1	0.5	80	1	179	152	112	22	373	12	60	15	165	130	200
2 3	2	1	90L	1	200	163	125	22	466	12	113	15	165	130	200
---	3	2	100L	2	280	180	145	28	461	16	88	15	215	180	250
5	5	3	112M	2	299	189	154	28	533	16	135	15	215	180	250
7.5 10	7.5	5	132S	2	337	224	180	35	538	20	97	13	265	230	300
---	10	7.5	132M	2	337	224	180	35	576	20	116	13	265	230	300
15 20	15	10	160M	3	434	263	218	35	743	20	151	10	300	250	350
25	20	15	160L	3	434	263	218	35	787	20	173	10	300	250	350
30	---	---	180MA	3	482	305	250	52	800	20	170	10	350	300	350
---	25 30	20	180MC	3	482	305	250	52	800	20	170	10	350	300	400
40	---	---	180LA	3	482	305	250	52	838	20	189	10	350	300	400
---	40	25 30	180LC	3	482	305	250	52	838	20	189	10	350	300	400
50 60	---	---	200LA	4	520	362	299	65	891	20	194	20	400	350	450
---	50 60	40 50	200LC	4	520	362	299	65	921	20	194	20	400	350	450
75	---	---	225SA	4	572	411	337	92	1050	22	190	30	500	450	550
---	75	60	225SC	4	572	411	337	92	1080	22	190	30	500	450	550
100	---	---	250SA	4	624	499	384	92	1156	22	201	30	500	450	550
---	100	75	250SC	4	624	499	384	92	1186	22	201	30	500	450	550
125	---	---	250MA	4	624	499	384	92	1213	22	230	30	500	450	550
---	125	100	250MC	4	624	499	384	92	1243	22	230	30	500	450	550

mm

S	T	Y	Z	Shaft End								Bearing		KGS
				D	E	EE	ED	F	G	GA	DH	Load Side	Out of Load Side	
10.0	3.5	---	---	14	30	---	24	5	11.0	16.0	M5X10	6202ZZ	6202ZZ	15.0
12.0	3.5	---	---	19	40	---	25	6	15.5	21.5	M6X12	6204ZZ	6204ZZ	18.0
12.0	3.5	---	---	24	50	---	32	8	20.0	27.0	M8X16	6205ZZ	6205ZZ	29.0
14.5	4.0	---	---	28	60	---	40	8	24.0	31.0	M10X20	6206ZZ	6305ZZ	37.0
14.5	4.0	---	---	28	60	---	40	8	24.0	31.0	M10X20	6306ZZ	6306ZZ	49.0
14.5	4.0	---	---	38	80	---	64	10	33.0	41.0	M12X24	6308ZZ	6306ZZ	76.0
14.5	4.0	---	---	38	80	---	64	10	33.0	41.0	M12X24	6308ZZ	6306ZZ	87.0
18.5	5.0	---	---	42	110	---	80	12	37.0	45.0	M16X32	6309ZZ	6307ZZ	134.0
18.5	5.0	---	---	42	110	---	80	12	37.0	45.0	M16X32	6309ZZ	6307ZZ	156.0
18.5	5.0	---	---	48	110	---	80	14	42.5	51.5	M16X32	6311ZZC3	6310ZZC3	199.0
18.5	5.0	---	---	48	110	---	80	14	42.5	51.5	M16X32	6311ZZ	6310ZZ	196.0
18.5	5.0	---	---	55	110	---	80	16	49.0	59.0	M20X40	6312ZZC3	6310ZZC3	227.0
18.5	5.0	---	---	55	110	---	80	16	49.0	59.0	M20X40	6312ZZ	6310ZZ	229.0
18.5	5.0	---	---	55	110	---	80	16	49.0	59.0	M20X40	6312C3	6212ZZC3	305.0
18.5	5.0	---	---	60	140	---	110	18	53.0	64.0	M20X40	6314	6212ZZC3	337.0
18.5	5.0	---	---	55	110	---	80	16	49.0	59.0	M20X40	6312C3	6212ZZC3	379.0
18.5	5.0	---	---	65	140	---	110	18	58.0	69.0	M20X40	6315	6213ZZ	406.0
18.5	5.0	---	---	55	110	---	80	16	49.0	59.0	M20X40	6313C3	6313C3	545.0
18.5	5.0	---	---	75	140	---	110	20	67.5	79.5	M20X40	NU316	6313	559.0
18.5	5.0	---	---	55	110	---	80	16	49.0	59.0	M20X40	6313C3	6313C3	546.0
18.5	5.0	---	---	75	140	---	110	20	67.5	79.5	M20X40	NU316	6313	559.0

Note:
1.) Tolerance of shaft Dia.D: Ø11 - Ø28: J6, Ø38 - Ø48: K6, Ø55 - Ø75: m6. 2.) Tolerance of flange lead diameter N: h7.
3.) Photos or specifications are subject to change without notice.

NEMA TC Motor (TEFC)

NEMA C Face Motor (TENV)

Woodworking Machine Motor

Three Phase Cooling Tower Motor

Single Phase Anti-Vibration Motor

Single Phase Split Motor

Single Phase Magnetic Pump Motor

Treadmill Motor

Three Phase Magnetic Pump Motor

Three Phase TD Rolled Motor

Three Phase TD Square Motor

NEMA TC Motor (ODP)

NEMA C Face Motor (ODP)

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