



Low Voltage Permanent Magnet Motor

DVEV Series / DVEN Series

Light weight / Quick response / Energy saving

Energy Conservation / Emissions Reduction / Intelligence / Automation



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Synchronous Motor

TECO offers the solutions of synchronous motor. Synchronous motors stand out as they are increasingly more used in various applications due to their operating characteristics. High efficiency, high torques and low starting currents, constant speed under load variations, and low operational and maintenance costs are the main reasons synchronous motors are the most indicated drive for different applications.

Certification/Standards

TECO is audited and certified by the requirements of ISO 9001 and 14001. In addition, to meet the requirements of the world's markets, TECO motors present significant certifications from important certifying bodies.



Why Synchronous Motor?

Power Factor Correction

Synchronous motors can help reduce electric energy costs and improve the power system's efficiency by supplying reactive energy to the connected grid. In a few years, the electric energy savings can pay off the amount invested in the motor.



High Torque Capacity

Synchronous motors are designed with high overload capability, maintaining constant speed in applications with load variations.

High Efficiency

Synchronous motors are designed to provide high efficiency under a large range of operational conditions providing significant savings with energy costs along its lifetime.



Stability in the Operation with Variable Speed Drives

Synchronous motors can operate in a wide speed range while maintaining stability regardless of load variation.



Applications

Fixed Speed

The low operational costs justify the application of synchronous motors with fixed speed since they present high efficiency.

Variable Speed

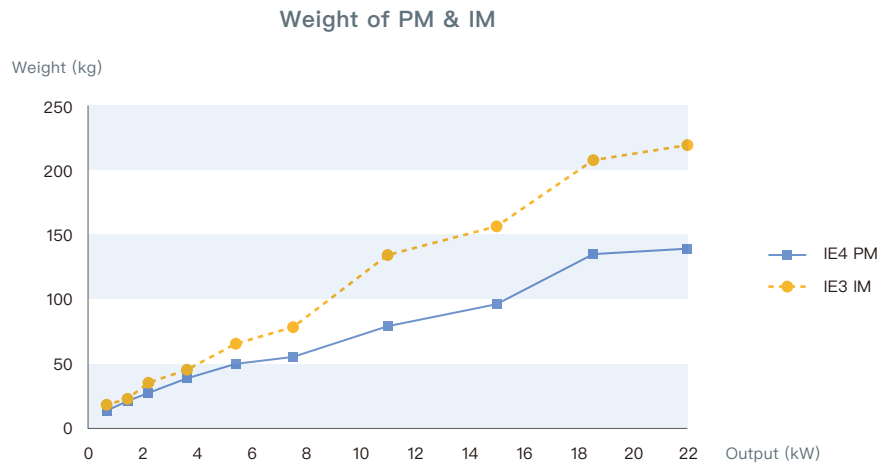
The application of synchronous motors with variable speed is justified in applications with high torque at low speed and a wide range of speed adjustments. Due to the higher efficiency, smaller size, and greater power capacity can replace direct-current motors in high-performance applications.

Flexible and Customized Design

TECO synchronous motors can be specified with low starting currents, generating lower impact in the electrical system during starting and reducing the mechanical stresses on the motor windings. TECO recommends the customers provide all necessary information about the application for the correct design and specification of a synchronous motor.

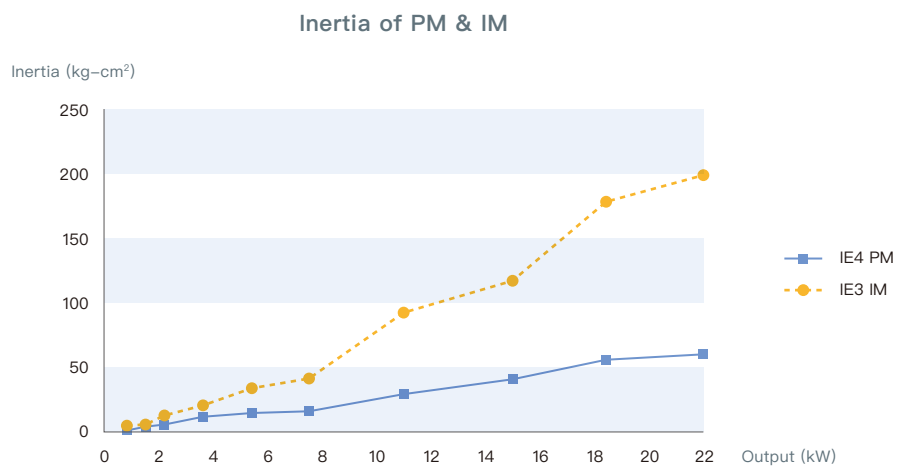
Lightweight

Compared with the TECO IE3 induction motor, the weight is reduced by 30%, and it is highly lightweight.



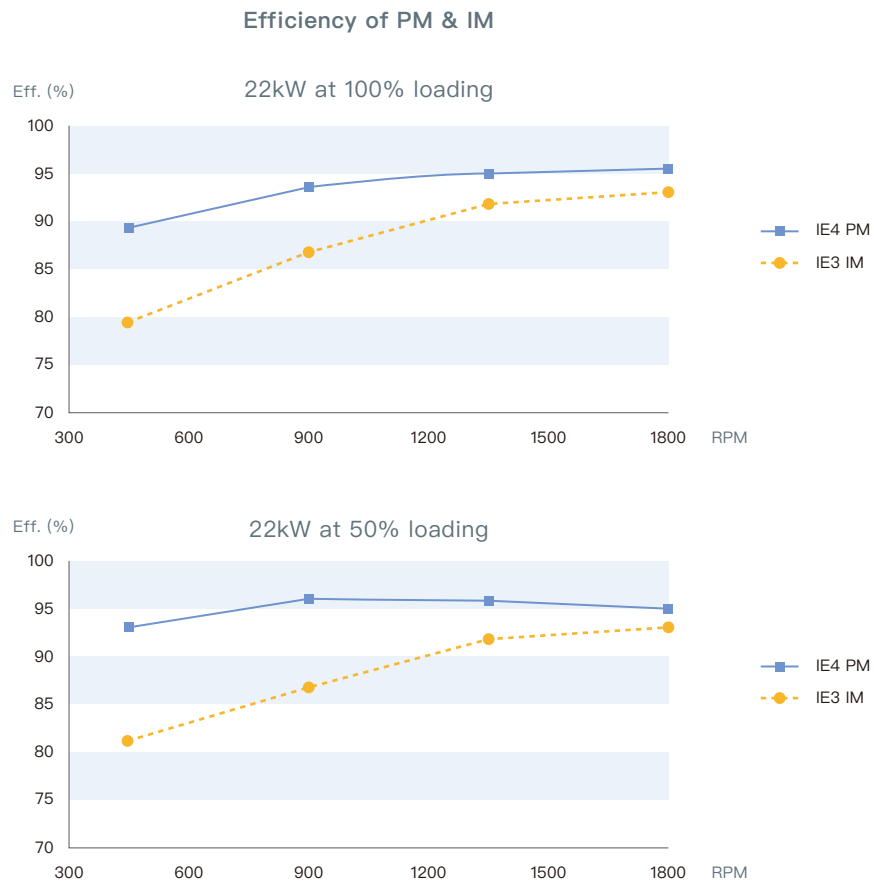
Low Inertia

The rotor inertia is significantly reduced by 60% compared with the TECO IE3 induction motor, which can make the speed response faster.



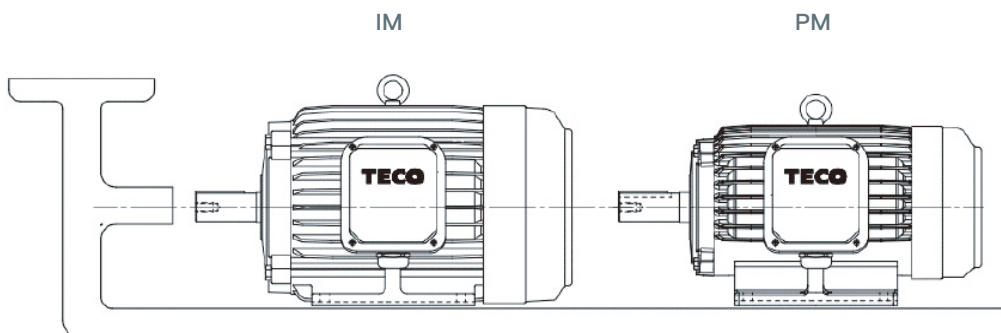
High Efficiency

Comply with IE4 energy efficiency (IEC 60034-30-2), and the low-speed characteristics are significantly ahead of induction motors, suitable for variable-speed energy-saving applications.



Friendly Installation

The DVEN series has the same frame size as induction motors for easy replacement.



Synchronous speed 1000RPM

Output		Speed (RPM)	Frame No.	Rated Torque (Nm)	Rated Current (Amps)	Induced Voltage Constant (mV/krpm)	Efficiency (%)
kW	HP						
0.75	1	1,000	80M	7.2	1.5	308	82.7
1.5	2	1,000	100L	14.3	3.0	318	85.9
2.2	3	1,000	100L	21.0	4.5	322	87.4
3.7	5	1,000	100L	35.3	7.0	330	89.3
5.5	7.5	1,000	100L	52.5	10.7	318	90.5
7.5	10	1,000	132S	71.6	15.0	317	91.3
11	15	1,000	132M	105.0	20.5	332	92.3
15	20	1,000	160M	143.2	28.5	327	92.9
18.5	25	1,000	160M	176.7	34.0	344	93.4
22	30	1,000	160L	210.1	43.0	322	93.7
30	40	1,000	200L	286.5	54.2	340	94.2
37	50	1,000	200L	353.3	66.6	340	94.5
45	60	1,000	225M	429.7	80.7	340	94.8
55	75	1,000	250M	525.2	98.4	340	95.1
75	100	1,000	250M	716.2	134	340	95.4
90	125	1,000	280S	859.4	160	340	95.6
110	150	1,000	280M	1051	195	340	95.8
132	175	1,000	315S	1261	234	340	96.0
160	215	1,000	315M	1528	283	340	96.2
185	250	1,000	315L	1767	327	340	96.2
200	270	1,000	315L	1910	353	340	96.3
250	335	1,000	355M	2388	441	340	96.5
280	375	1,000	355M	2674	493	340	96.5
315	420	1,000	355M	3008	555	340	96.6

Synchronous speed 1500RPM

Output		Speed (RPM)	Frame No.	Rated Torque (Nm)	Rated Current (Amps)	Induced Voltage Constant (mV/krpm)	Efficiency (%)
kW	HP						
0.75	1	1,500	71	4.8	1.9	162.0	85.7
1.5	2	1,500	80M	9.5	3.0	210.0	88.2
2.2	3	1,500	80M	14.0	4.5	217.0	89.5
3.7	5	1,500	100L	23.6	7.0	220.0	90.9
5.5	7.5	1,500	100L	35.0	10.0	226.0	91.9
7.5	10	1,500	100L	47.7	15.5	202.0	92.6
11	15	1,500	132S	70.0	20.0	232.0	93.3
15	20	1,500	132M	95.5	27.0	226.0	93.9
18.5	25	1,500	160M	117.8	33.0	234.0	94.2
22	30	1,500	160M	140.1	41.2	223.0	94.5
30	40	1,500	180L	191.0	52.9	216.7	94.9
37	50	1,500	180L	235.5	65.1	212.7	95.2
45	60	1,500	200L	286.5	78.9	224.0	95.4
55	75	1,500	200L	350.1	96.3	225.3	95.7
75	100	1,500	250M	477.5	131	218.7	96.0
90	125	1,500	250M	573.0	157	220.7	96.1
110	150	1,500	250M	700.3	194	220.7	96.3
132	175	1,500	280M	840.3	233	226.7	96.4
160	215	1,500	280M	1019	282	226.7	96.6
185	250	1,500	315S	1178	326	226.7	96.6
200	270	1,500	315M	1274	352	226.7	96.7
250	335	1,500	315L	1592	440	226.7	96.7
280	375	1,500	355M	1783	492	226.7	96.7
315	420	1,500	355M	2006	554	226.7	96.7
355	475	1,500	355M	2260	624	226.7	96.7
375	500	1,500	355M	2388	660	226.7	96.7
400	540	1,500	355L	2547	703	226.7	96.7

Synchronous speed 3000RPM

Output		Speed (RPM)	Frame No.	Rated Torque (Nm)	Rated Current (Amps)	Induced Voltage Constant (mV/krpm)	Efficiency (%)
kW	HP						
0.75	1	3000	71	2.4	1.5	106.0	83.5
1.5	2	3000	80M	4.8	3.0	106.0	86.5
2.2	3	3000	80M	7.0	4.6	103.0	88.0
3.7	5	3000	100L	11.8	7.5	106.0	89.7
5.5	7.5	3000	100L	17.5	11.0	105.0	90.9
7.5	10	3000	100L	23.9	15.0	110.0	91.7
11	15	3000	132S	35.0	20.5	111.0	92.6
15	20	3000	132S	47.7	27.5	116.0	93.3
18.5	25	3000	132S	58.9	35.0	109.0	93.7
22	30	3000	160M	70.0	43.5	104.0	94.0
30	40	3000	160L	95.5	54.0	113.3	94.5
37	50	3000	160L	117.8	66.4	113.3	94.8
45	60	3000	180L	143.2	80.6	113.3	95.0
55	75	3000	180L	175.1	98.1	113.3	95.3
75	100	3000	200L	238.7	133	113.3	95.6
90	125	3000	225S	286.5	164	113.3	95.8
110	150	3000	250M	350.1	195	113.3	96.0
132	175	3000	250M	420.2	233	113.3	96.2
160	215	3000	250M	509.3	283	113.3	96.3
185	250	3000	280S	588.9	327	113.3	96.3
200	270	3000	280S	636.6	352	113.3	96.5
250	335	3000	280M	795.8	441	113.3	96.5
280	375	3000	315S	891.3	493	113.3	96.5
315	420	3000	315S	1002.7	555	113.3	96.5
355	475	3000	315M	1130.0	626	113.3	96.5
375	500	3000	315M	1193.7	661	113.3	96.5
400	540	3000	315L	1273.2	705	113.3	96.5

Synchronous speed 1200RPM

Output		Speed (RPM)	Frame No.	Rated Torque (Nm)	Rated Current (Amps)	Induced Voltage Constant (mV/krpm)	Efficiency (%)
kW	HP						
0.75	1	1200	90L	6.0	3.0	129	82.7
1.5	2	1200	112M	11.9	6.0	134	85.9
2.2	3	1200	112M	17.5	9.0	134	87.4
3.7	5	1200	132S	29.4	14.0	137	89.3
5.5	7.5	1200	132M	43.8	21.4	133	90.5
7.5	10	1200	160M	59.7	29.2	132	91.3
11	15	1200	160L	87.5	42.0	136	92.3
15	20	1200	180MC	119.4	58.0	134	92.9
18.5	25	1200	180LC	147.2	72.0	134	93.4
22	30	1200	180LC	175.1	83.0	139	93.7

Synchronous speed 1800RPM

Output		Speed (RPM)	Frame No.	Rated Torque (Nm)	Rated Current (Amps)	Induced Voltage Constant (mV/krpm)	Efficiency (%)
kW	HP						
0.75	1	1800	80M	4.0	3.8	67	85.7
1.5	2	1800	90L	8.0	6.0	87	88.2
2.2	3	1800	100L	11.7	9.0	91	89.5
3.7	5	1800	112M	19.6	14.0	90	90.9
5.5	7.5	1800	132S	29.2	20.0	94	91.9
7.5	10	1800	132M	39.8	29.0	90	92.6
11	15	1800	160M	58.4	40.0	95	93.3
15	20	1800	160L	79.6	56.0	91	93.9
18.5	25	1800	180MC	98.1	66.0	98	94.2
22	30	1800	180MC	116.7	79.0	97	94.5
30	40	1800	180LC	159.2	114.0	92	94.9

Synchronous speed 3600RPM

Output		Speed (RPM)	Frame No.	Rated Torque (Nm)	Rated Current (Amps)	Induced Voltage Constant (mV/krpm)	Efficiency (%)
kW	HP						
0.75	1	3600	80M	2.0	3.8	44	83.5
1.5	2	3600	90L	4.0	6.0	44	86.5
2.2	3	3600	90L	5.8	9.0	44	88.0
3.7	5	3600	112M	9.8	14.0	45	89.7
5.5	7.5	3600	132S	14.6	21.4	44	90.9
7.5	10	3600	132S	19.9	29.0	47	91.7
11	15	3600	160M	29.2	40.0	47	92.6
15	20	3600	160M	39.8	56.0	48	93.3
18.5	25	3600	160L	49.1	66.0	48	93.7
22	30	3600	180MA	58.4	81.0	46	94.0
30	40	3600	180LA	79.6	114.0	47	94.5

Synchronous speed 1200RPM

Output		Speed (RPM)	Frame No.	Rated Torque (Nm)	Rated Current (Amps)	Induced Voltage Constant (mV/krpm)	Efficiency (%)
kW	HP						
0.75	1	1200	90L	6.0	1.5	258	82.7
1.5	2	1200	112M	11.9	3.0	267	85.9
2.2	3	1200	112M	17.5	4.5	267	87.4
3.7	5	1200	132S	29.4	7.0	274	89.3
5.5	7.5	1200	132M	43.8	10.7	265	90.5
7.5	10	1200	160M	59.7	14.6	264	91.3
11	15	1200	160L	87.5	21.0	272	92.3
15	20	1200	180MC	119.4	29.0	268	92.9
18.5	25	1200	180LC	147.2	36.0	268	93.4
22	30	1200	180LC	175.1	41.5	279	93.7

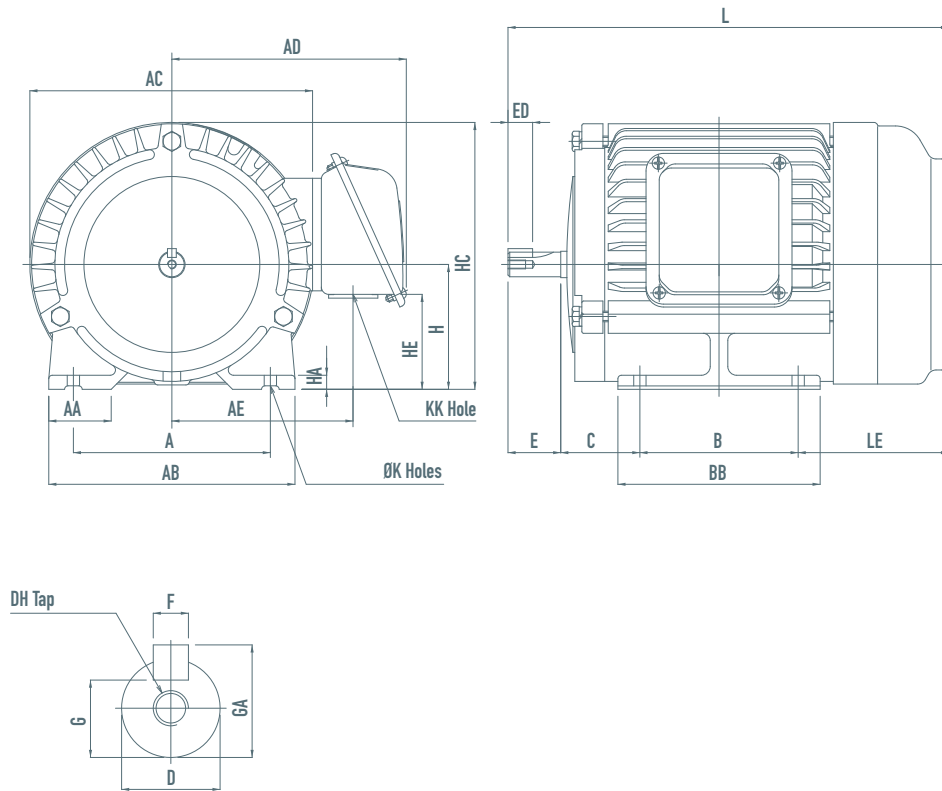
Synchronous speed 1800RPM

Output		Speed (RPM)	Frame No.	Rated Torque (Nm)	Rated Current (Amps)	Induced Voltage Constant (mV/krpm)	Efficiency (%)
kW	HP						
0.75	1	1800	80M	4.0	1.9	134	85.7
1.5	2	1800	90L	8.0	3.0	174	88.2
2.2	3	1800	100L	11.7	4.5	181	89.5
3.7	5	1800	112M	19.6	7.0	181	90.9
5.5	7.5	1800	132S	29.2	10.0	189	91.9
7.5	10	1800	132M	39.8	14.5	180	92.6
11	15	1800	160M	58.4	20.0	190	93.3
15	20	1800	160L	79.6	28.0	181	93.9
18.5	25	1800	180MC	98.1	33.0	195	94.2
22	30	1800	180MC	116.7	39.5	193	94.5
30	40	1800	180LC	159.2	57.0	183	94.9

Synchronous speed 3600RPM

Output		Speed (RPM)	Frame No.	Rated Torque (Nm)	Rated Current (Amps)	Induced Voltage Constant (mV/krpm)	Efficiency (%)
kW	HP						
0.75	1	3600	80M	2.0	1.9	88	83.5
1.5	2	3600	90L	4.0	3.0	88	86.5
2.2	3	3600	90L	5.8	4.5	87	88.0
3.7	5	3600	112M	9.8	7.0	90	89.7
5.5	7.5	3600	132S	14.6	10.7	88	90.9
7.5	10	3600	132S	19.9	14.5	94	91.7
11	15	3600	160M	29.2	20.0	94	92.6
15	20	3600	160M	39.8	28.0	95	93.3
18.5	25	3600	160L	49.1	33.0	97	93.7
22	30	3600	180MA	58.4	40.5	91	94.0
30	40	3600	180LA	79.6	57.0	93	94.5

FIG-1



Unit: mm

Output(kW)			Frame Size	A	AA	AB	AC	AD	AE	B	BB	C	H	HA	HC	HD
3000 RPM	1500 RPM	1000 RPM														
0.75	0.75	-	71	112	35.5	140	162	133	103	90	115	45	71	8	152	-

Frame Size	HE	K	KK	SHAFT EXTENSION									BEARING	
				L	LE	D	E	ED	F	G	GA	DH	DRIVE END	OPPOSITE DRIVE END
71	54	7	ψ22	250.5	85.5	14	30	24	5	11	16	M5x10	6202ZZ	6202ZZ

FIG-2

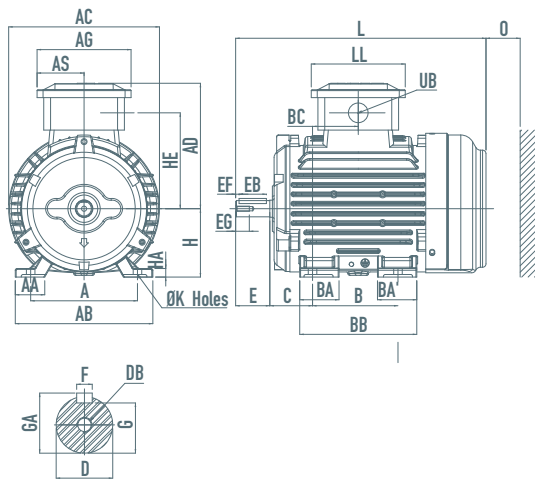
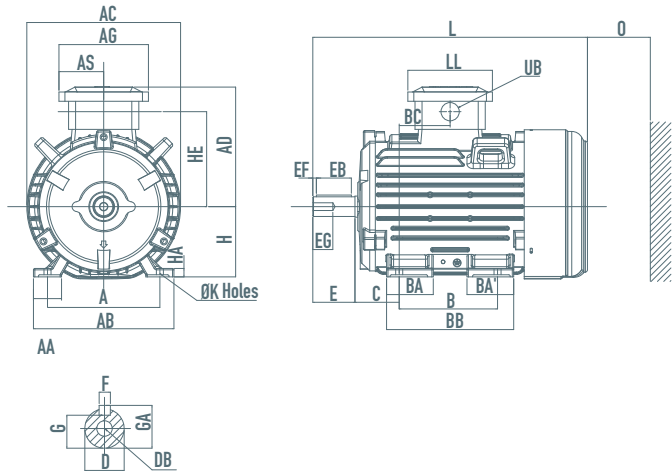


FIG-3

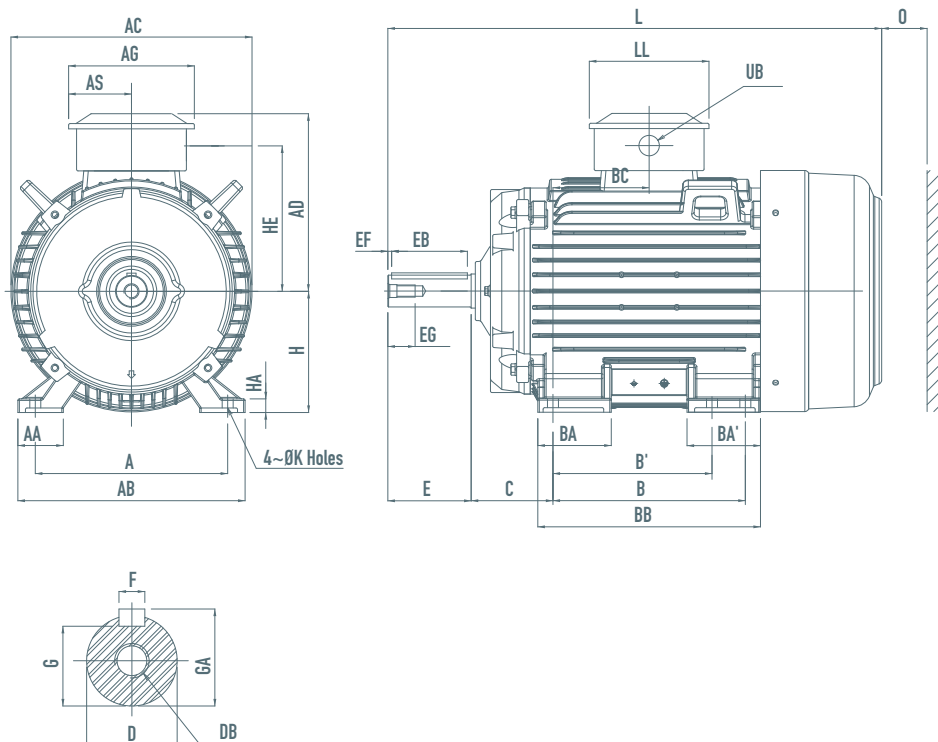


Unit: mm

Output(kW)			Frame Size	Fig.	A	AA	AB	AC	AD	AG	AS	B	BA	BA'	BB	BC	C	H	HA	HE
3000 RPM	1500 RPM	1000 RPM																		
1.5 2.2	1.5	0.75	80MA	2	125	34.5	161	177	152	110	55	100	46	46	137	53.5	50	80	10	115
-	2.2	-	80MB	2	125	34.5	161	177	152	110	55	100	46	46	137	53.5	50	80	10	115
3.7 5.5	3.7 5.5	2.2 3.7	100LA	3	160	40	200	219	178.5	127	63.5	140	66.5	66.5	181	72.5	63	100	12	138
-	7.5	5.5	100LB	3	160	40	200	219	178.5	127	63.5	140	66.5	66.5	181	72.5	63	100	12	138

Frame Size	K	L	LL	O	UB	SHAFT EXTENSION									BEARING	
						D	E	EB	EF	EG	F	G	GA	DB	DRIVE END	OPPOSITE DRIVE END
80MA	10	292	110	40	M20x1.5	19	40	32	4	16	6	15.5	21.5	M6	6204ZZ	6203ZZ
80MB	10	327	110	40	M20x1.5	19	40	32	4	16	6	15.5	21.5	M6	6204ZZ	6203ZZ
100LA	12	391	120	50	M25x1.5	28	60	50	5	22	8	24	31	M10	6206ZZ	6205ZZ
100LB	12	411	120	50	M25x1.5	28	60	50	5	22	8	24	31	M10	6206ZZ	6205ZZ

FIG-4

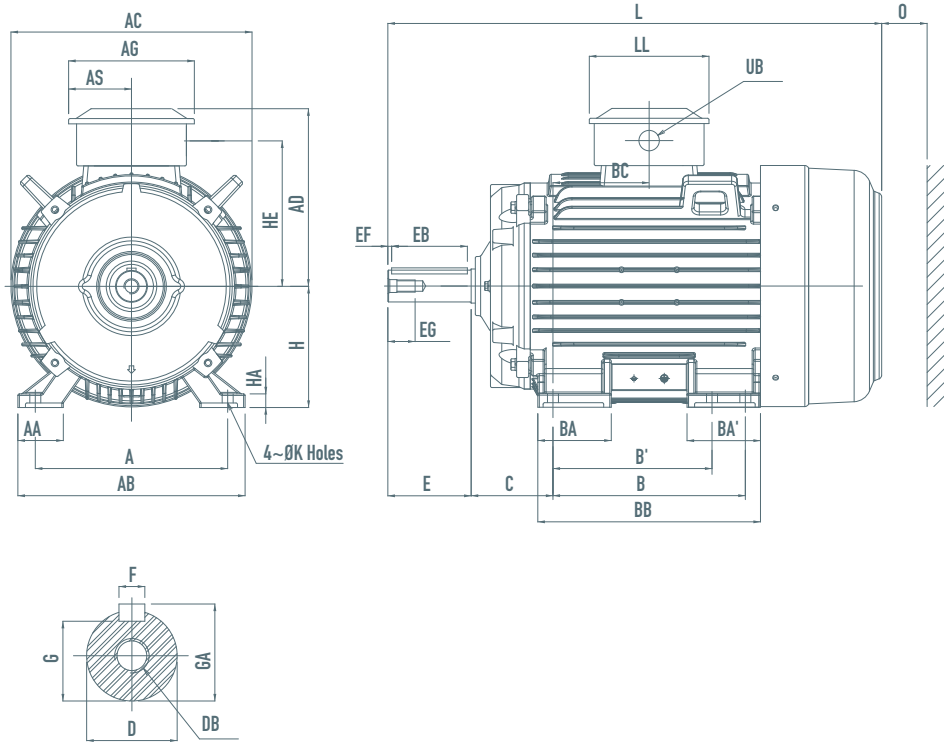


Unit: mm

Output(kW)			Frame Size	Fig.	A	AA	AB	AC	AD	AG	AS	B	B'	BA	BA'	BB	BC	C	H	HA
3000 RPM	1500 RPM	1000 RPM																		
11			132S	4	216	57	263	273	208.5	127	63.5	140	-	64	64	184	65	89	132	16
15	11	7.5																		
18.5																				
-	15	11	132M	4	216	57	263	273	208.5	127	63.5	178	140	83.5	83.5	222	84	89	132	16

Frame Size	HE	K	L	LL	O	UB	SHAFT EXTENSION								BEARING		
							D	E	EB	EF	EG	F	G	GA	DB	DRIVE END	OPPOSITE DRIVE END
132S	168	12	456	120	50	M25x1.5	38	80	70	5	28	10	33	41	M12	6308ZZ	6306ZZ
132M	168	12	494	120	50	M25x1.5	38	80	70	5	28	10	33	41	M12	6308ZZ	6306ZZ

FIG-5

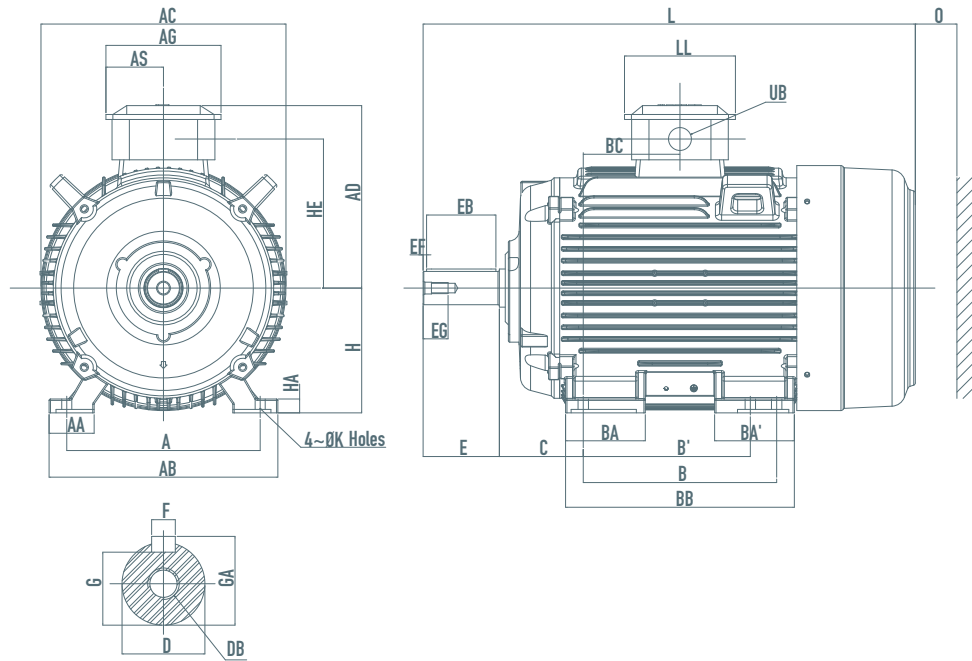


Unit: mm

Output(kW)			Frame Size	Fig.	A	AA	AB	AC	AD	AG	AS	B	B'	BA	BA'	BB	BC	C	H	HA
3000 RPM	1500 RPM	1000 RPM																		
22	18.5 22	15 18.5	160M	5	254	60	300	317	234	166	83	210	-	57	57	250	105	108	160	18
30 37	-	22	160L	5	254	60	300	317	234	166	83	254	210	97	97	294	127	108	160	18

Frame Size	HE	K	L	LL	O	UB	SHAFT EXTENSION								BEARING		
							D	E	EB	EF	EG	F	G	GA	DB	DRIVE END	OPPOSITE DRIVE END
160M	192	14.5	608	160	60	M32x1.5	42	110	100	5	36	12	37	45	M16	6309ZZ	6307ZZ
160L	192	14.5	652	160	60	M32x1.5	42	110	100	5	36	12	37	45	M16	6309ZZ	6307ZZ

FIG-6

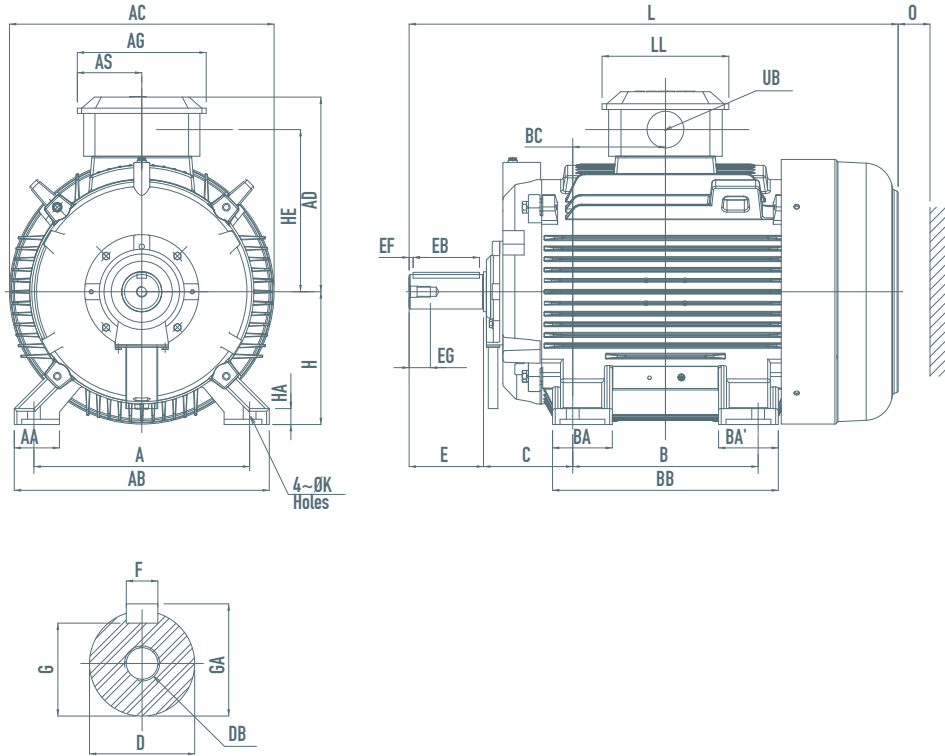


Unit: mm

Output(kW)			Frame Size	Fig.	A	AA	AB	AC	AD	AG	AS	B	B'	BA	BA'	BB	BC	C	H
3000 RPM	1500 RPM	1000 RPM																	
-	-	-	180M	6	279	65	330	354	266	166	83	241	-	65	65	292	120.5	121	180
45	30	-	180L	6	279	65	330	354	266	166	83	279	241	115	115	330	139.5	121	180
75	45	30	200L	6	318	70	378	398	304.5	215	107.5	305	-	82	82	353	152.5	133	200
90	-	-	225SA	6	356	75	431	449	330.5	215	107.5	286	-	98.5	98.5	371	143	149	225
-	-	45	225MC	6	356	75	431	449	330.5	215	107.5	311	286	110	110	396	155.5	149	225

Frame Size	HA	HE	K	L	LL	O	UB	SHAFT EXTENSION								BEARING		
								D	E	EB	EF	EG	F	G	GA	DB	DRIVE END	OPPOSITE DRIVE END
180M	20	218	14.5	672	160	70	M32x1.5	48	110	100	5	36	14	42.5	51.5	M16	(6311ZZC3)	(6310ZZC3)
180L	20	218	14.5	710	160	70	M32x1.5	48	110	100	5	36	14	42.5	51.5	M16	6311ZZ	6310ZZ
200L	24	241	18.5	770	199	80	M50x1.5	55	110	100	5	42	16	49	59	M20	(6312ZZC3) 6312ZZ	(6212ZZC3) 6212ZZ
225SA	28	267	18.5	791	199	90	M50x1.5	55	110	100	5	42	16	49	59	M20	(6312ZZC3)	(6212ZZC3)
225MC	28	267	18.5	841	199	90	M50x1.5	60	140	125	7.5	42	18	53	64	M20	6313ZZ	6213ZZ

FIG-7

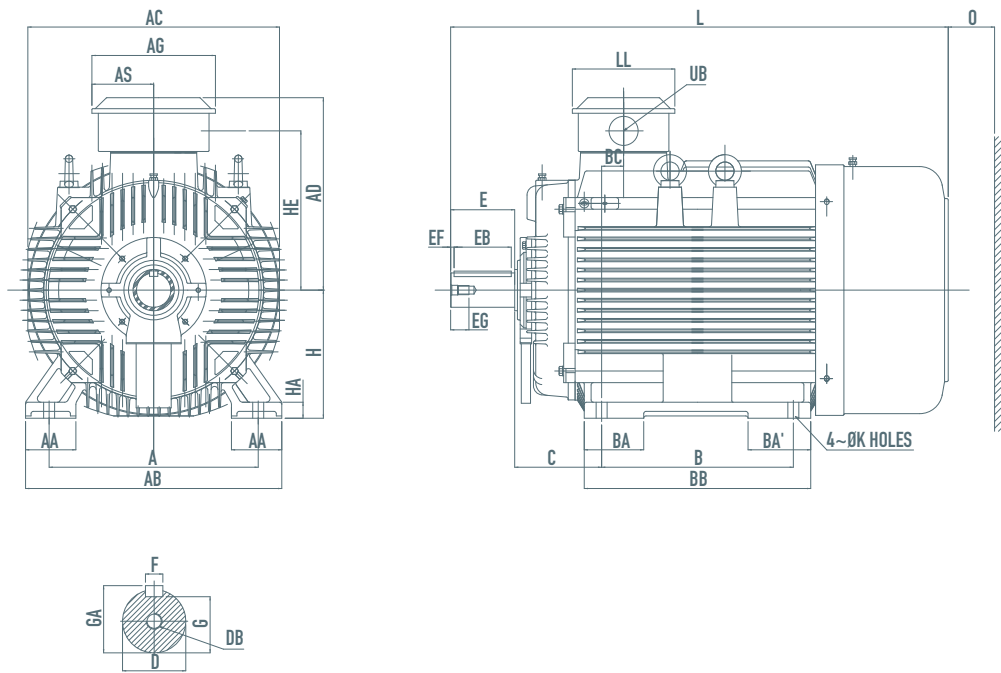


Unit: mm

Output(kW)			Frame Size	Fig.	A	AA	AB	AC	AD	AG	AS	B	B'	BA	BA'	BB	BC	C	H	HA
3000 RPM	1500 RPM	1000 RPM																		
110	-	-	250MA	7	406	85	480	499	372.5	249	124.5	349	-	112.5	112.5	425	174.5	168	250	30
132	-	-	250MC	7	406	85	480	499	372.5	249	124.5	349	-	112.5	112.5	425	174.5	168	250	30
160	75	55																		
-	90	110																		

Frame Size	HE	K	L	LL	O	UB	SHAFT EXTENSION								BEARING		
							D	E	EB	EF	EG	F	G	GA	DB	DRIVE END	OPPOSITE DRIVE END
250MA	300	24	921	224	105	M63x1.5	60	140	125	7.5	42	18	53	64	M20	6313-ZC3	6313-ZC3
250MC	300	24	921	224	105	M63x1.5	65	140	125	7.5	42	18	58	69	M20	6315-Z	6313-Z

FIG-8

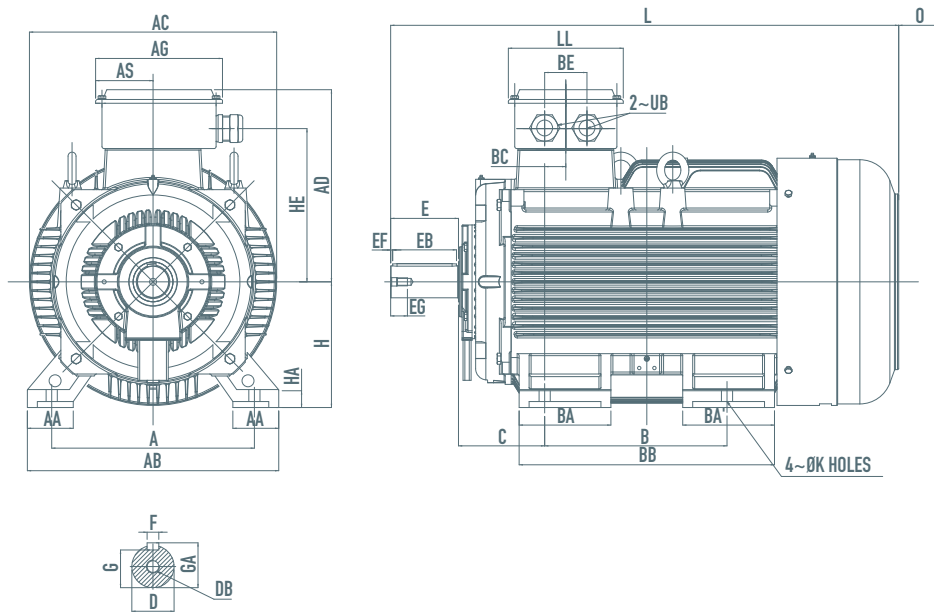


Unit: mm

Output(kW)			Frame Size	Fig.	A	AA	AB	AC	AD	AG	AS	B	BA	BA'	BB	BC	C	H	HA	HE
3000 RPM	1500 RPM	1000 RPM																		
185	-	-	280SA	8	457	110	560	550	417	249	124.5	368	110	110	445	48	190	280	35	348
-	-	90	280SB	8	457	110	560	550	417	249	124.5	368	110	110	445	48	190	280	35	348
250	-	-	280MA	8	457	110	560	550	417	249	124.5	419	130	137	495	48	190	280	35	348
-	132	160	280MB	8	457	110	560	550	417	249	124.5	419	130	137	495	48	190	280	35	348

Frame Size	K	L	LL	O	UB	SHAFT EXTENSION										BEARING	
						D	E	EB	EF	EG	F	G	GA	DB	DRIVE END	OPPOSITE DRIVE END	
280SA	24	1037.5	224	140	M63x1.5	65	140	125	7.5	40	18	58	69	M20	6316C3	6314C3	
280SB	24	1037.5	224	140	M63x1.5	75	140	125	7.5	40	20	67.5	79.5	M20	6318C3	6316C3	
280MA	24	1087.5	224	140	M63x1.5	65	140	125	7.5	40	18	58	69	M20	6316C3	6314C3	
280MB	24	1087.5	224	140	M63x1.5	75	140	125	7.5	40	20	67.5	79.5	M20	6318C3	6316C3	

FIG-9

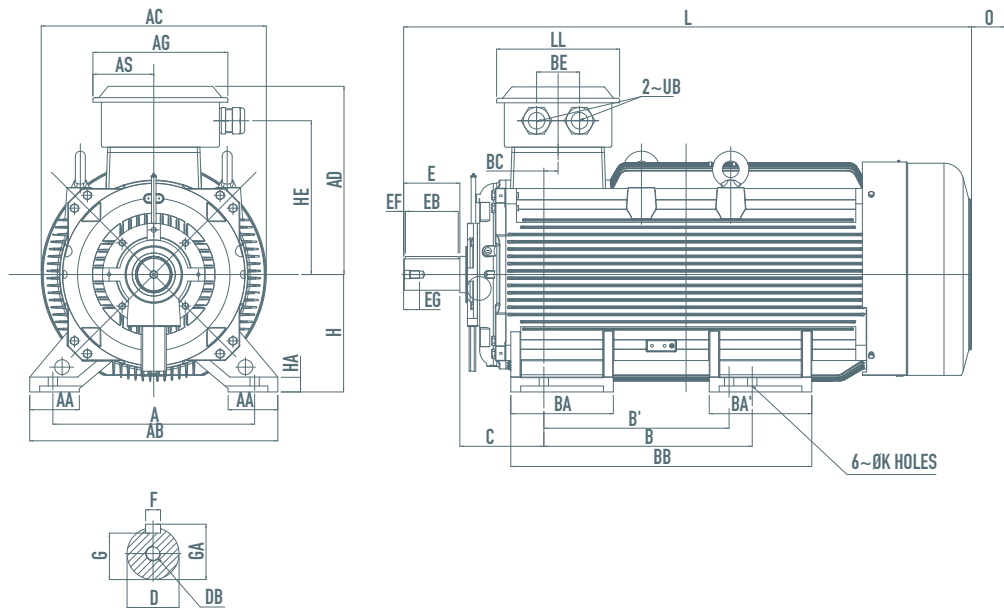


Unit: mm

Output(kW)			Frame Size	Fig.	A	AA	AB	AC	AD	AG	AS	B	BA	BA'	BB	BC	BE	C	H	HA	HE
3000 RPM	1500 RPM	1000 RPM																			
280	-	-	315SA	9	508	115	615	560	456.5	318	144	406	180	180	580	53	106	216	315	35	359
315	185	132	315SB	9	508	115	615	560	456.5	318	144	406	180	180	580	53	106	216	315	35	359
355	-	-	315MA	9	508	115	630	620	481.5	318	144	457	230	230	640	53	106	216	315	45	384
375	200	160	315MB	9	508	115	630	620	481.5	318	144	457	230	230	640	53	106	216	315	45	384
400	-	-	315LA	9	508	130	630	620	481.5	318	144	508	230	230	740	53	106	216	315	45	384
-	250	185 200	315LB	9	508	130	630	620	481.5	318	144	508	230	230	740	53	106	216	315	45	384

Frame Size	K	L	LL	O	UB	BEARING										BEARING	
						D	E	EB	EF	EG	F	G	GA	DB	DRIVE END	OPPOSITE DRIVE END	
315SA	28	1162	288	180	M63x1.5	65	140	125	7.5	40	18	58	69	M20	6316C3	6314C3	
315SB	28	1192	288	180	M63x1.5	80	170	160	5	40	22	71	85	M20	6320C3	6316C3	
315MA	28	1246	288	180	M63x1.5	65	140	125	7.5	40	18	58	69	M20	6316C3	6314C3	
315MB	28	1276	288	180	M63x1.5	80	170	160	5	40	22	71	85	M20	6320C3	6316C3	
315LA	28	1346	288	180	M63x1.5	65	140	125	7.5	40	18	58	69	M20	6316C3	6314C3	
315LB	28	1376	288	180	M63x1.5	80	170	160	5	40	22	71	85	M20	6320C3	6316C3	

FIG-10



Unit: mm

Output(kw)			Frame Size	Fig.	A	AA	AB	AC	AD	AG	AS	B	B'	BA	BA'	BB	BC	BE	C	H	HA
3000 RPM	1500 RPM	1000 RPM																			
-	-	-	355MA	10	610	150	750	682	573	408	184	-	560	310	310	910	43	130	254	355	45
-	280	250	355MB	10	610	150	750	682	573	408	184	-	560	310	310	910	43	130	254	355	45
-	315	280																			
-	355	315																			
-	-	-	355LA	10	610	150	750	682	573	408	184	630	-	310	310	910	43	130	254	355	45
-	400	-	355LB	10	610	150	750	682	573	408	184	630	-	310	310	910	43	130	254	355	45

Frame Size	HE	K	L	LL	O	UB	SHAFT EXTENSION										BEARING	
							D	E	EB	EF	EG	F	G	GA	DB	DRIVE END	OPPOSITE DRIVE END	
355MA	469	28	1687	372	230	M72x2	75	140	125	7.5	40	20	67.5	79.5	M20	6317C3	6317C3	
355MB	469	28	1717	372	230	M72x2	95	170	160	5	48	25	86	100	M24	6322C3	6322C3	
355LA	469	28	1687	372	230	M72X2	75	140	125	7.5	40	20	67.5	79.5	M20	6317C3	6317C3	
355LB	469	28	1717	372	230	M72X2	95	170	160	5	48	25	86	100	M24	6322C3	6322C3	

FIG-1

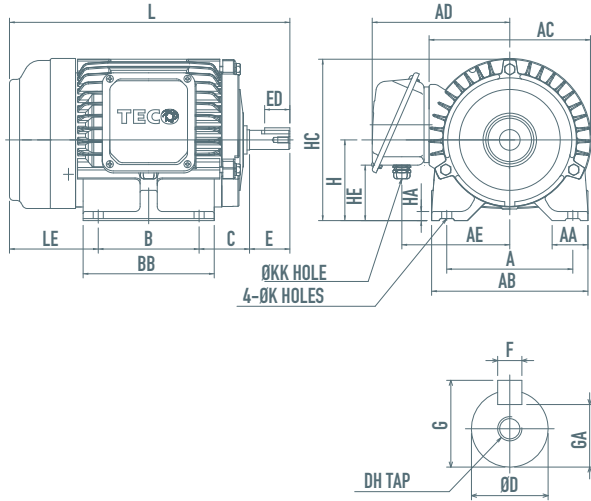
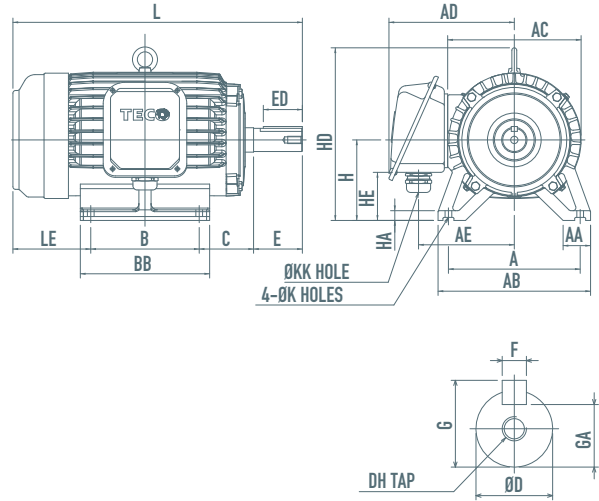


FIG-2



Unit: mm

Output(kW)			Frame Size	Fig.	A	AA	AB	AC	AD	AE	B	BB	C	H	HA	HC	HD	HE
1200 RPM	1800 RPM	3600 RPM																
-	0.75	0.75	80M	1	125	35.5	155	160	137	107	100	130	50	80	9.0	160	-	55
0.75	1.5	1.5 2.2	90L	1	140	35.5	170	180	148	117	125	150	56	90	10	178	-	65
-	2.2	-	100L	2	160	35.5	195	180	161	127	140	175	63	100	12.5	-	222	71
1.5 2.2	3.7	3.7	112M	2	190	45	224	222	183	148	140	175	70	112	14	-	255	82
3.7	5.5	5.5 7.5	132S	2	216	45	250	224	206	157	140	192	89	132	16	-	283	83
5.5	7.5	-	132M	2	216	45	250	224	206	157	178	212	89	132	16	-	283	83

Frame Size	K	KK	L	LE	BEARING							BEARING	
					D	E	ED	F	G	GA	DH	DRIVE END	OPPOSITE DRIVE END
80M	ψ10	7~12	278	88	19	40	25	6	15.5	21.5	M6X12	6204ZZ	6204ZZ
90L	ψ10	7~12	325.5	94.5	24	50	32	8	20	27	M8X16	6205ZZ	6205ZZ
100L	ψ12	7~12	361	97.5	28	60	40	8	24	31	M10X20	6206ZZ	6305ZZ
112M	ψ12	7~12	388.5	118.5	28	60	40	8	24	31	M10X20	6306ZZ	6306ZZ
132S	ψ12	18~25	445.5	136.5	38	80	64	10	33	41	M12X24	6308ZZ	6306ZZ
132M	ψ12	18~25	474.5	127.5	38	80	64	10	33	41	M12X24	6308ZZ	6306ZZ

FIG-3

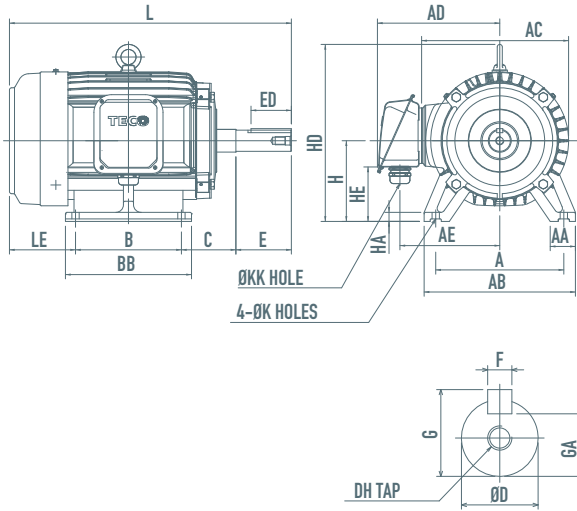
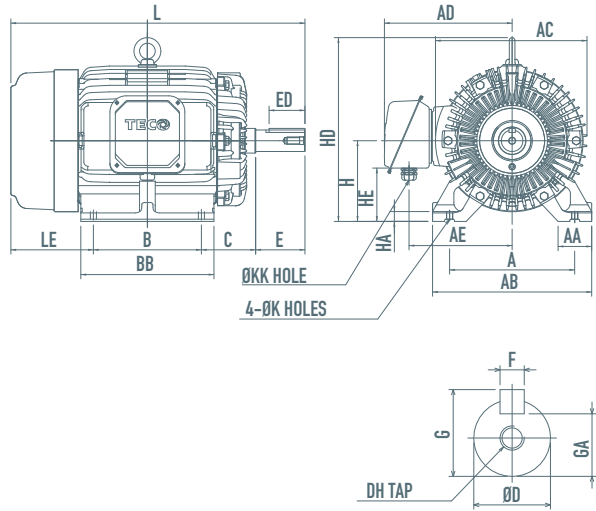


FIG-4



Unit: mm

Output(kW)			Frame Size	Fig.	A	AA	AB	AC	AD	AE	B	BB	C	H	HA	HD	HE
1200 RPM	1800 RPM	3600 RPM															
7.5	11	11 15	160M	3	254	50	300	292	243	198	210	250	108	160	18.0	351	108
11	15	18.5	160L	3	254	50	300	292	243	198	254	300	108	160	18.0	351	108
-	-	22	180MA	4	279	75	355	338	285	230	241	297	121	180	22.0	410	119
15	18.5 22	-	180MC	3	279	75	355	338	285	230	241	297	121	180	22.0	410	119
-	-	30	180LA	4	279	75	355	338	285	230	279	335	121	180	22.0	410	119
18.5 22	30	-	180LC	3	279	75	355	338	285	230	279	335	121	180	22.0	410	119

Frame Size	K	KK	L	LE	BEARING							BEARING	
					D	E	ED	F	G	GA	DH	DRIVE END	OPPOSITE DRIVE END
160M	ψ14.5	18~25	559	131	42	110	80	12	37	45	M16X32	6309ZZ	6307ZZ
160L	ψ14.5	18~25	603	131	42	110	80	12	37	45	M16X32	6309ZZ	6307ZZ
180MA	ψ14.5	31~41	656	184	48	110	80	14	42.5	51.5	M16X32	6311ZZC3	6310ZZC3
180MC	ψ14.5	31~41	656	184	48	110	80	14	42.5	51.5	M16X32	6311ZZ	6310ZZ
180LA	ψ14.5	31~41	694	184	55	110	80	16	49	59	M20X40	6312ZZC3	6310ZZC3
180LC	ψ14.5	31~41	694	184	55	110	80	16	49	59	M20X40	6312ZZ	6310ZZ

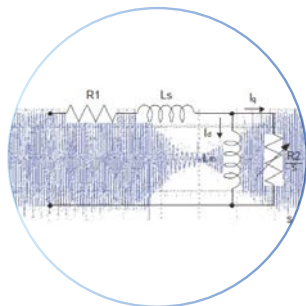
Variable Frequency Drive

TECO offers A510s/F510 series with PM control algorithms with or without pulse generators, which meet a fan, pump, and industry machinery application.



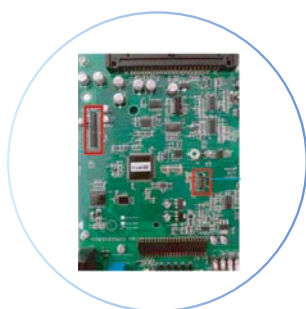
Advanced Motor Auto-tuning Function

Advanced Rotational, static and stator tuning modes to measure the motor parameter correctly for building model, to operate great performance.



Flexible Expansion Capacity

Support PG cards, high-speed communication cards, IO card, DC 24V power supply card.



Conformity to Global Standard

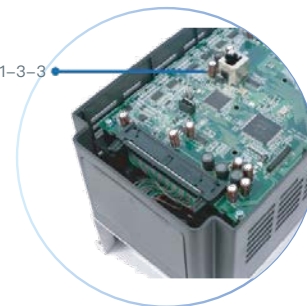
Conformity to RoHS directive and internationally recognized standards.



Robust Design

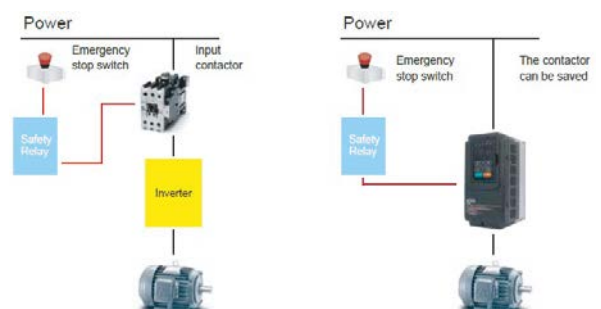
PCBA coating for all series to against harsh environment, which meets IEC 60721-3-3 Class 3C3 standard.

Meet IEC 60721-3-3 Class 3C3



Embedded in Safety torque off

A510s/F510 built-in Safety Torque Off function, complies with EN ISO 13849-1 Cat/PLd, EN 61508 SIL2, EN 60204-1 Category 0, EN 62061 SIL CL2.



**TECO-Westinghouse Motor Company**

Texas 5100 N. IH 35, Round Rock, Texas 78681, USA
Tel : +1-512-255-4141, +1-800-451-8798
Fax : +1-512-244-5512
Toll Free : 1-800-451-8798
Website : www.tecowestinghouse.com
E-mail : sales@tecowestinghouse.com

TECO-Westinghouse Motor Company Inc. (Canada)

18060 - 109th Ave, Edmonton, Alberta T5S 2K2
Tel : +1-780-444-8933
Fax : +1-780-486-4575
24HR Emergency ph : +1(780)994-8964
Toll Free : +1-800-661-4023
Website : www.tecowestinghouse.ca
E-mail : sales@tecowestinghouse.ca

TECO-Westinghouse Motor Company, S.A. de C.V.

Zeta 408, Industrial Delta, Leon, Guanajuato, CP 37545
Tel : +52-472-723-8200
Contact : Victor Iniestra
E-mail : ventas@tecowestinghouse.com

Motovario Ltd.

Rushock Trading Estate, Droitwich,
Worcestershire WR9 0NR,
United Kingdom
Tel : +44 (0)1299 250 859
E-mail for LV : sales@motovario.co.uk
E-mail for MV : enquiries@teco-group.eu
Website : www.motovario.com

TECO Middle East Electric & Machinery Co., Ltd.

2nd Industrial City, Dammam PO Box #708,
Dammam 31421 Kingdom of Saudi Arabia
Tel : +966-3-812-3939
Fax : +966-3-812-4823
E-mail : sales@teco-me.com

TECO Elektrik Turkey A.S.

Yesilkoy Mah. Atatürk Caddesi No:12/1,
EGS Business Park, B1 Blok 3. Kat;
Daire No : 177-178 34149 - Bakirkoy/
Istanbul TURKEY
Contact : Mehmet Ali Kocak
Tel : +90 212 465 4540
Fax : +90 212 465 4599
Website : www.tecoturkey.com

**TECO West Africa, East Africa,
Central Africa and Southern Africa**

Email : sales.africa@teco.com.au
Website : <http://www.teco.com.au>

TECO Australia Pty Limited (Head Office Sydney)

335-337 Woodpark Road, Smithfield NSW 2164
Tel : +61-2-9765-8118
Fax : +61-2-9765-8185
E-mail : sales@teco.com.au
Website : www.teco.com.au

TECO Australia Pty Limited (Melbourne Office)

16 Longstaff Road, Bayswater VIC 3153
Tel : +61-3-9720-4411
Fax : +61-3-9720-5355
E-mail : vic-sales@teco.com.au
Website : www.teco.com.au

TECO Australia Pty Limited (Brisbane Office)

50 Murdoch Circuit, Acacia Ridge QLD 4110
Tel : +61-7-3373-9600
Fax : +61-7-3373-9699
E-mail : qldsales@teco.com.au
Website : www.teco.com.au

TECO Australia Pty Limited (Perth Office)

18 Hazelhurst Street, Kewdale WA 6105
Tel : +61-8-9479-4879
Fax : +61-8-9478-3876
E-mail : sales@teco.com.au

TECO New Zealand Ltd.

Unit 3, 477 Great South Road, Penrose, Auckland
Tel : +64-9-526-8480
Fax : +64-9-526-8484
E-mail : sales@teco.co.nz
Website : www.teco.com.au

Sankyo Co., Ltd.

29th fl., Hamamatsucho Bldg., 1-1-1,
Shibaura, Minato-ku, Tokyo, Japan, 105-0023
Tel : +81-3-6809-3883
Fax : +81-3-6809-3885
Contact : Seiho Mabuchi
Website : www.teco-japan.com

TECO Electric & Machinery PTE Ltd.

47 Tuas Avenue 9, Singapore 639190
Tel : +65-6265-4622
Fax : +65-6265-7354
Website : www.teco.com.sg

PT. TECO Multiguna Elektro

J1. Bandengan Utara No.83/1-3,
Jakarta 14440, Indonesia
Tel : +62-21-6622201
Fax : +62-21-6697029
E-mail : factory@teco.id / marketing@teco.id

Surabaya (East Java) Branch:

Jl. Berbek Industri II No. 21 Sidoarjo
(Kawasan Rungkut Industri SBY / SIER)
61256, Jawa Timur, Indonesia
Tel : +62-31-8431952
Fax : +62-31-8436672
E-mail : factory@teco.id
marketing@teco.id

**TECO Electric & Machinery Co., Ltd.
New Delhi Office**

Tel : +91-11-2231-4654
Mobile : +91-98733-90999
Contact : Vijay Sankar
kailashkharayat@teco.co.in
E-mail : vijay@teco.co.in
kailashkharayat@teco.co.in

TECO Electric & Machinery Co., Ltd. (China)

Room 321, Building NO.6,
Lane 1279 Zhongshan W.Rd, Shanghai,
Post 200051, PRC
Tel : +86-21-5116-8255
Fax : +86-21-3209-8761
Website : www.tecochina.net
E-mail : tecosh@teco-china.com.cn

TECO Electric & Machinery SDN. BHD.**-JB Office-**

PLO 52 (No.26), Jalan Firma 2/1,
Kawasan Perindustrian Tebrau 1,
81100 Johor Bahru, Johor, Malaysia.
Tel : +60-7-3548008
Fax : +60-7-3546107
E-mail : sales@teco.com.my

-KL Office-

No. 10, Jalan BP 4/4 Bandar Bukit Puchong
47120 Puchong, Selangor.
Tel : +60-3-8062-2299
Fax : +60-3-8060-8869
E-mail : sales-p@teco.com.my

TECO Electronic & Machinery (Thai) Co.,Ltd.

128/1 Soi Watsrivarenoi, Moo 7, Bangna-Trad Rd,
Km 18, Bangchalong, Bangplee, Samuthprakarn 10540
Bangkok, Thailand
Tel : +66-2-337-1311-20
Fax : +66-2-337-1630-1

TECO Technology (Vietnam) Co.,Ltd.

Long Thanh Industrial Zone, Tam An Commune,
Long Thanh District, Dong Nai Province, Vietnam
Tel : +84-9355-73376
Contact : Ms. TRUONG TU GIANG

Taian (Subic) Electric, Inc.

Phase 1 Argonaut Highway cor. Braveheart St.
Subic Bay Gateway Park, Subic Bay Freeport Zone
-2222- Zambales, Philippines
Tel : +63-47-252-1324 / +63-47-252-1668
Fax : +63-47-252-3234
Website : www.taiansubic.com
Contact : Roger De Galicia
sb.rdg Galicia@taiansubic.com
Mobile : +63-922-818-0195

TECO Electric and Machinery GmbH

Industrieweg 21, 30179 Hannover, Germany
Tel : +49 (0) 511 475747 610
Fax : +49 (0) 511 475747 620
E-mail : enquiries@teco-group.eu
Website : www.teco-group.eu

Motovario S.P.A.

Galleria San Babila 4b, Milan, Italy
Phone: +39 059 579700
Fax : +39 059 579710
E-mail : info@motovario.it
Website : www.motovario.com/eng/

Russia

Contact : Mr. Ivan Panasyuk
Tel : +7 (812) 980-5020
Mobile : +7 (952) 395-3500
E-mail : sales-rus@teco.com.tw
panasyuk@teco.com.tw

For more information, please visit TECO website.

