Single Phase Motor

NEMA Standard

TECO

Together, we empower the Future

Content

Single-Phase Induction Motor

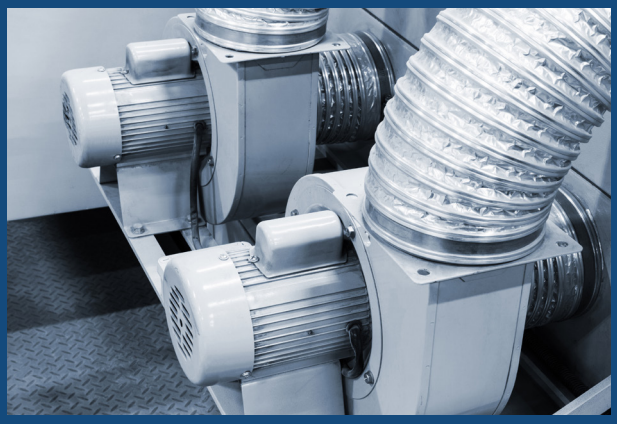
Reliable, Efficient, and Versatile Motor Solutions for General-Purpose Applications

TECO single-phase induction motors, available in both TEFC and ODP designs, deliver high starting torque, stable performance, and long service life for a wide range of equipment. Built with robust mechanical construction and an optimized cooling system, they ensure reliable, efficient operation in everyday industrial and commercial use.

The TEFC model provides strong protection against dust and moisture for harsh environments, while the ODP version enhances ventilation for continuous cooling in clean, ventilated locations. Engineered to meet demanding operating conditions with low maintenance requirements, TECO motors offer a dependable and durable power solution for diverse applications.

Equipment Applications >>>>

Water supply & irrigation pump



Fans & Air Moving Equipment

Material Handling Machinery

Other industrial machinery

BEGS39/BEGS19 Spec Sheet

RATING	Kind of Motor	Squirrel Cage Induction Motors (SCIM) CSCR (Capacitor Start Capacitor Run)
	Design Standards	NEMA MG-1, MG-13
	Voltages	Rated Voltage 115/208 - 230V. 3HP~10HP 208 - 230V.
	Frequency	60Hz
	Output Range	1/4 HP ~ 10HP
	R.P.M. (Syn.)	3600 R.P.M, 1800 R.P.M (2P, 4P)
	Time Duty	S.F. 1.15 for 60Hz 115 & 230V (SF1.0 for 60Hz 208V)
	Frame Size.	48 ~ 215T
	Protection Enclosure	Totally Enclosed (IP44)
	Cooling Method	Self External Fan, Surface Cooling (IC 411)
	Mounting	Horizontal Foot Mounted, with or without C-flange (IM 1001, IM 2101) F1
APPLICATION	Power Condition	Voltage：±10%, Frequency：±5%, and 10% Max. of Combined Voltage and Frequency, But Frequency Variation does not Exceed ±5%.
	Designed Primarily	HVAC, Fan, Compressor and Pumps
	Environment Conditions	Place：Non - Hazardous. Ambient Temperature：-15℃ ~ 40℃ . Relative Humidity：Less Than 90%RH (Non - Condensation). Altitude：Less Than 3,300ft.
	Drive Method	Belt Service, or Direct Coupling Service
	Direction of Rotation	Bi - Directional
	Method of Starting	Full Voltage Direct On Line
PERFORMANCE	Temperature Rise	B Rise, Not to Exceed 90˚C. for S.F. 1.15 or 80˚C for S.F. 1.0 by Resistance Method. F Rise, Not to Exceed 115˚C. for S.F. 1.15 or 105˚C for S.F. 1.0 by Resistance Method, for F180T, F210T
	Over Speed	125% Syn. R.P.M. for 2 Minutes. (2,4 Poles)
	Over Torque	160% Rated Torque for 15 Sec.

Performance Data BEGS39 - 230V 60Hz

Output		Full Load	Frame NO.	Frame NO.	Full Load				Locked Rotor			Break Down Torque	Starting Capacitor		Running Capacitor		Rotor Wk^2
					Torque	Eff.	P.F.	Current	Torque	KVA	Current		MFD	VAC	MFD	VAC	
HP	kW	(rpm)	(1)	(2)	lb-ft	(%)	(%)	(A)	%FLT	CODE	(A)	%FLT					$lb\text{-}ft^2$
1/4	0.18	3500	48	56	0.360	68.0	90.0	1.28	310	L	11	220	200	125	20	250	0.007
		1735	48	56	0.720	70.0	83.0	1.35	260	K	8.8	230	150	125	25	250	0.024
1/3	0.25	3500	48	56	0.500	72.0	90.0	1.68	310	L	14	230	250	125	25	250	0.007
		1735	48	56	1.010	74.0	83.0	1.77	310	K	12	260	200	125	30	250	0.026
1/2	0.37	3510	48	56	0.740	74.0	90.0	2.42	330	L	21	260	300	125	35	250	0.009
		1730	48	56	1.490	77.0	85.0	2.46	330	J	16	240	250	125	40	250	0.036
3/4	0.55	3510	48	56	1.100	77.0	92.0	3.38	330	K	28	260	350	125	40	250	0.010
		1730	48	56	2.240	78.5	87.0	3.50	270	H	22	230	300	125	60	250	0.045
1	0.75	3500	56H	143T	1.500	78.5	92.0	4.51	330	H	30	240	400	165	60	250	0.036
		1740	56H	143T	3.010	80.0	90.0	4.53	280	H	28	240	300	165	60	250	0.108
1.5	1.1	3500	56H	143T	2.210	81.5	96.0	6.11	320	H	46	260	500	165	80	250	0.045
		1740	56H	145T	4.450	81.5	92.0	6.38	250	H	40	230	400	165	80	250	0.142
2	1.5	3500	56H	145T	3.010	82.5	96.0	8.23	310	G	53	250	550	165	100	250	0.052
		1735	56H	145T	6.070	82.5	92.0	8.59	240	G	52	220	500	165	100	250	0.164
3	2.2	3510	56H	145T	4.410	84.0	98.0	11.7	310	J	98	270	250	300	40	450	0.069

NOTE:
1. The above are typical values based on test according to ANSI / IEEE standard 114 method B.
2. Breakdown & Locked rotor torques are show as average expected values.
3. Efficiency, power factor, speed and torque are the same for other voltages.
   Current values vary inversely with voltage.
4. 3HP Rated Voltage 230V only.
5. Tolerance according to IEC 60034-1.
6. Data subject to change without notice.

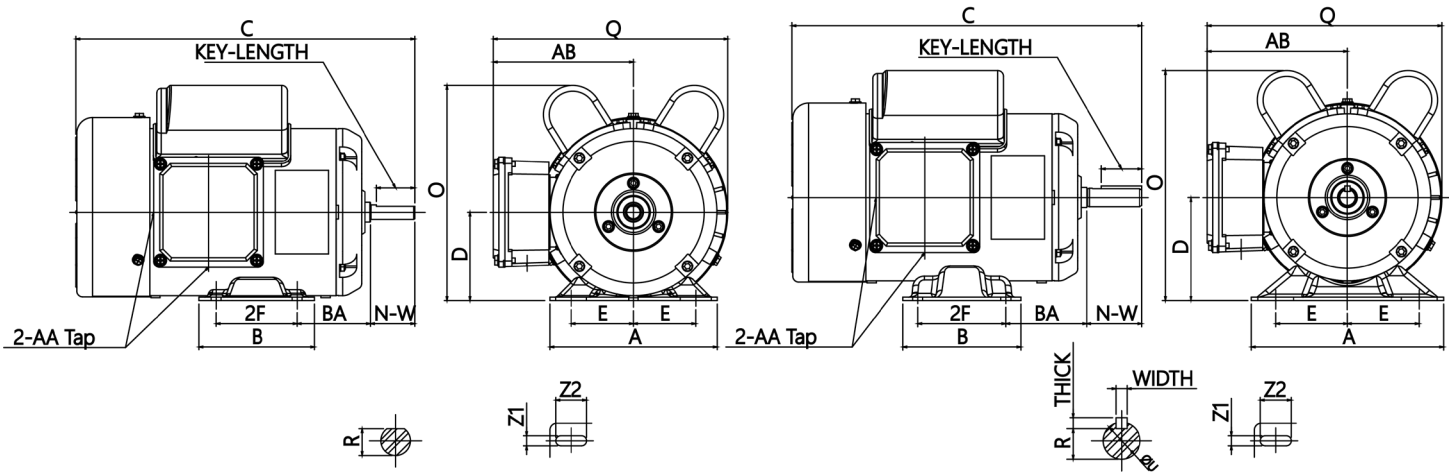


FIG.1 **FIG.2**

(Dimension in inches)

Output(HP)		FRAME SIZE	FIG. NO.	Mounting			A	B	C	D	O	Q	Z1	Z2
2P	4P			E	2F	BA								
1/4	1/4	48	FIG.1	2.12	2.75	2.50	5.69	3.94	11.00	3.00	7.30	7.98	0.34	1.05
1/3	1/3													
1/2	1/2								11.60					
3/4	3/4								12.20					
1/4	1/4	56	FIG.2	2.44	3.00	2.75	6.54	4.02	11.30	3.50	7.80			1.22
1/3	1/3													
1/2	1/2								11.90					
3/4	3/4								12.50					

FRAME SIZE	Key			Keyseat	Terminal Housing		Shaft Extension		Bearings		APPROX. WEIGHT LBS	
	Width	Thick	Length	R	AA	AB	N-W	U	DRIVE END	OPPOSITE DRIVE END	2P	4P
48	-	-	1.3	0.453	NPT 1/2"	4.77	1.500	0.5	6203ZZ	6202ZZ	20.7	21.4
											21.6	22.3
											25.1	26.5
											28.7	29.5
56	0.188	0.188	1.41	0.517				0.625			20.9	21.6
											21.8	22.5
											25.4	26.7
											28.9	29.8

Note :
1. Dimension D tolerance : +0.00 inch , -0.06 inch .
2. Dimension U tolerance : +0.000 inch , -0.0005 inch .
3. Dimension R tolerance : +0.000 inch , -0.015 inch .

Outline Dimension Sheet BEGS39 - Frame 56H/140T

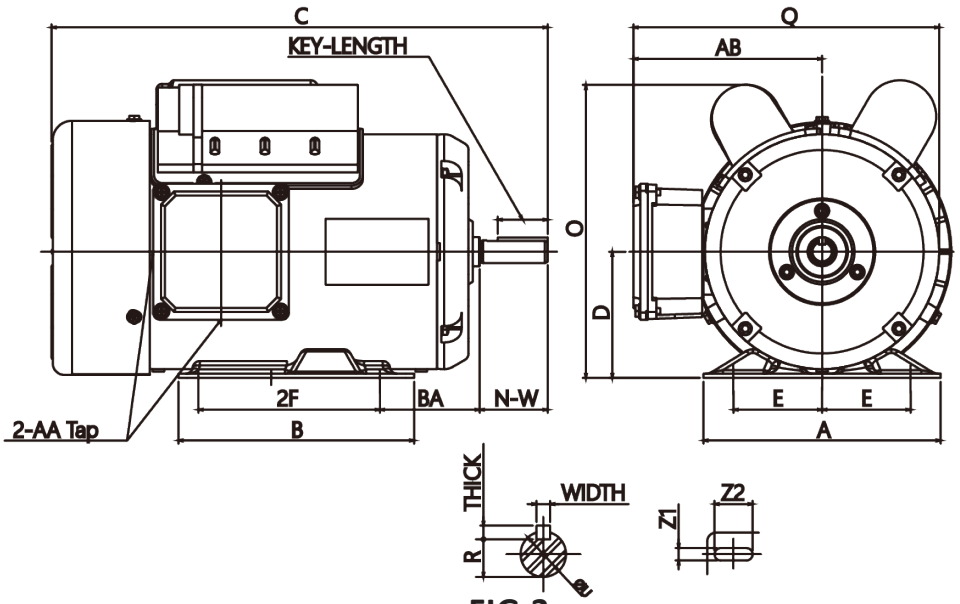


FIG.3

(Dimension in inches)

Output(HP)		FRAME SIZE	FIG. NO.	Mounting			A	B	C	D	O	Q	Z1	Z2
2P	4P			E	2F	BA								
1	1	56H	FIG.3	2.44	5.00	2.75	6.54	6.50	12.90	3.50	8.22	8.76	0.34	1.22
1.5	1.5								13.70					
2	-													
3	2								14.50					
1	1	143T		2.75	4.00	2.75		5.91	13.30					0.5
1.5	-								14.10					
2	1.5	145T			5.00									
3	2								14.90					

FRAME SIZE	Key			Keyseat	Terminal Housing		Shaft Extension		Bearings		APPROX. WEIGHT LBS	
	Width	Thick	Length	R	AA	AB	N-W	U	DRIVE END	OPPOSITE DRIVE END	2P	4P
56H	0.188	0.188	1.41	0.517	NPT 1/2"	5.20	1.875	0.625	6204ZZ	6203ZZ	35.5	39.0
											40.3	45.2
											43.4	-
											53.6	51.4
140T				0.771			2.250	0.875	6205ZZ		35.9	39.5
											40.8	45.6
											43.9	-
											54.0	51.8

Note :
1. Dimension D tolerance : +0.00 inch , -0.06 inch .
2. Dimension U tolerance : +0.000 inch , -0.0005 inch .
3. Dimension R tolerance : +0.000 inch , -0.015 inch .

Outline Dimension Sheet BEGS39 - Frame 140T

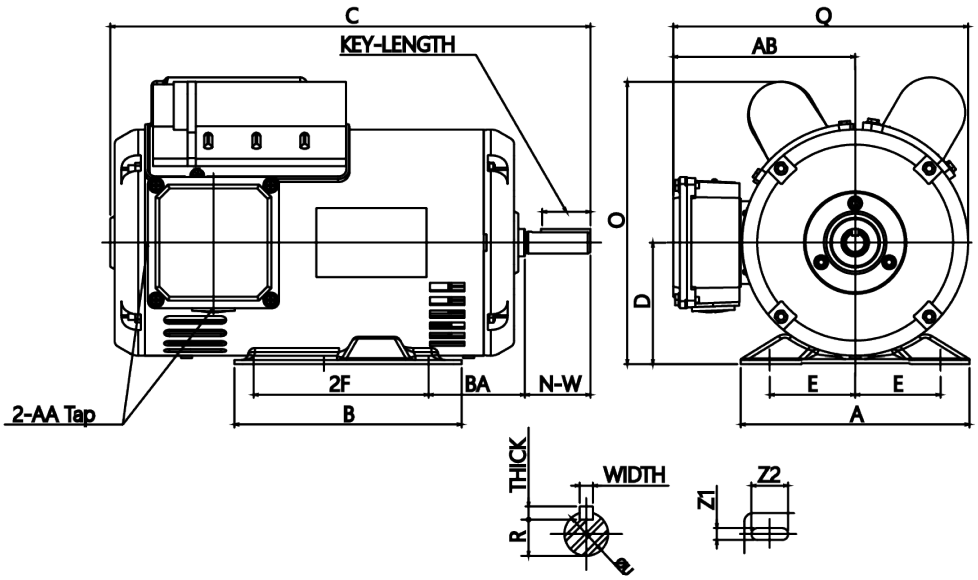


FIG.4

(Dimension in inches)

Output(HP)		FRAME SIZE	FIG. NO.	Mounting			A	B	C	D	O	Q	Z1	Z2
2P	4P			E	2F	BA								
1	3/4	143T	FIG.4	2.75	4.00	2.25	6.54	5.91	13.30	3.50	8.22	8.47	0.34	0.5
1.5	1								14.10					
2	-	145T			5.00									
3	-								14.90					
-	1.5								15.30					
-	2								16.10					

FRAME SIZE	Key			Keyseat	Terminal Housing		Shaft Extension		Bearings		APPROX. WEIGHT LBS	
	Width	Thick	Length	R	AA	AB	N-W	U	DRIVE END	OPPOSITE DRIVE END	2P	4P
140T	0.188	0.188	1.41	0.771	NPT 1/2"	5.20	2.250	0.875	6205ZZ	6203ZZ	35.5	39.2
											40.1	45.2
											43.2	-
											53.1	-
											-	53.1
											-	59.1

Note :
1. Dimension D tolerance : +0.00 inch , -0.06 inch .
2. Dimension U tolerance : +0.000 inch , -0.0005 inch .
3. Dimension R tolerance : +0.000 inch , -0.015 inch .

Performance Data BEGS19 - 230V 60Hz

Output		Full Load (rpm)	Frame NO.	Full Load				Locked Rotor			Break Down Torque	Starting Capacitor		Running Capacitor		Rotor Wk^2
				Torque	Eff.	P.F.	Current	Torque	KVA	Current						
HP	kW			lb-ft	(%)	(%)	(A)	%FLT	CODE	(A)	%FLT	MFD	VAC	MFD	VAC	lb-ft²
3	2.2	3480	182T	4.450	80.0	96.0	12.5	410	H	90	220	300	330	30	450	0.164
		1740	182T	8.900	82.5	92.0	12.6	350	H	88	240	250	330	40	450	0.356
5	3.7	3490	184T	7.460	82.0	98.0	20.0	350	H	140	200	400	330	50	450	0.202
		1740	184T	14.97	84.0	94.0	20.4	320	G	131	220	350	330	60	450	0.475
7.5	5.5	3510	213T	11.03	84.5	98.0	28.9	420	H	220	220	600	350	80	450	0.451
		1750	213T	22.13	82.0	94.0	31.1	400	H	218	240	800	350	80	450	0.902
10	7.5	3520	215T	15.00	86.0	98.0	38.7	390	H	310	240	900	350	100	450	0.617
		1750	215T	30.18	83.5	94.0	41.6	350	H	304	220	1000	350	100	450	1.092

NOTE:
1. The above are typical values based on test according to ANSI / IEEE standard 114 method B.
2. Breakdown & Locked rotor torques are show as average expected values.
3. Efficiency, power factor, speed and torque are the same for other voltages.
   Current values vary inversely with voltage.
4. Tolerance according to IEC 60034-1.
5. Data subject to change without notice.

Outline Dimension Sheet BEGS19 - Frame 180T/210T

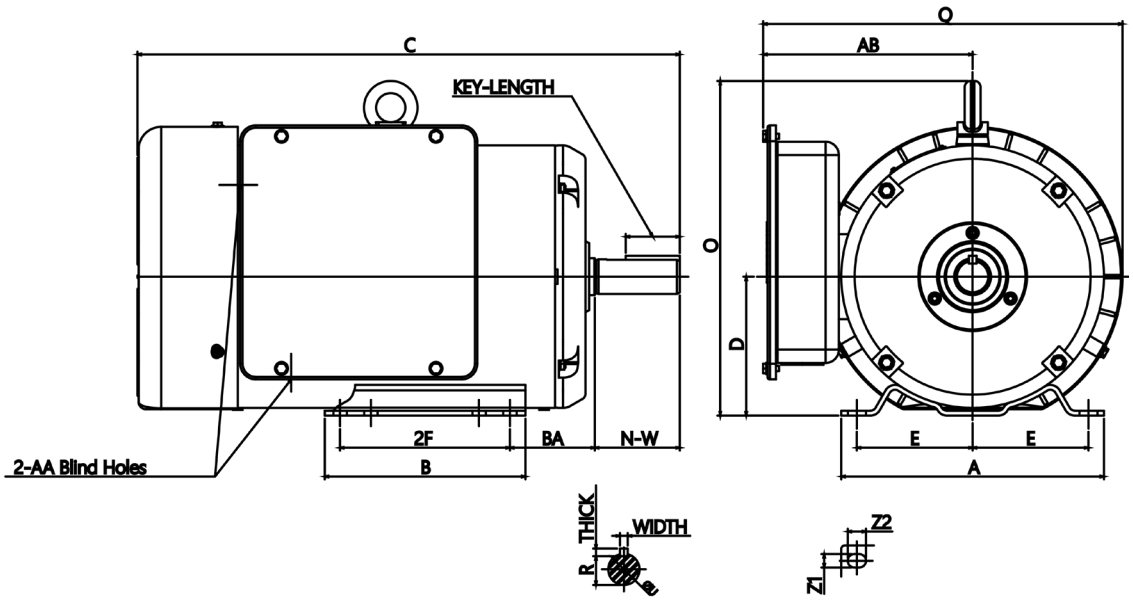


FIG.5

(Dimension in inches)

Output(HP)		FRAME SIZE	FIG. NO.	Mounting			A	B	C	D	O	Q	Z1	Z2
2P	4P			E	2F	BA								
3	3	182T	FIG.5	3.75	4.50	2.75	8.51	6.50	16.20	4.50	10.84	11.63	0.43	0.59
5	5	184T			5.50				17.60					
7.5	7.5	213T		4.25	5.50	3.5	10.44	8.47	19.90	5.25	12.36	13.6		
10	10	215T			7.00				21.30					

FRAME SIZE	Key			Keyseat	Terminal Housing		Shaft Extension		Bearings		APPROX. WEIGHT LBS	
	Width	Thick	Length	R	AA	AB	N-W	U	DRIVE END	OPPOSITE DRIVE END	2P	4P
180T	0.25	0.25	1.78	0.99	Ø1.1	6.78	2.75	1.125	6206ZZ	6205ZZ	82.9	88.4
											102	106
210T	0.312	0.312	2.41	1.20		7.92	3.375	1.375	6208ZZ	6206ZZ	149	176
											183	202

Note :
1. Dimension D tolerance : +0.00 inch , -0.06 inch .
2. Dimension U tolerance : +0.000 inch , -0.0005 inch .
3. Dimension R tolerance : +0.000 inch , -0.015 inch .

BSGS39 Spec Sheet

RATING	Kind of Motor	Squirrel Cage Induction Motors (SCIM) CSCR (Capacitor Start Capacitor Run)
	Design Standards	NEMA MG-1, MG-13
	Voltages	Rated Voltage 115/208 - 230V. 3HP 208 - 230V.
	Frequency	60Hz
	Output Range	1/4 HP ~ 3HP
	R.P.M. (Syn.)	3600 R.P.M, 1800 R.P.M (2P, 4P)
	Time Duty	S.F. 1.15 for 60Hz 115 & 230V (SF1.0 for 60Hz 208V)
	Frame Size.	48 ~ 56H
	Protection Enclosure	Open, Drip Proof (IP22).
	Cooling Method	Self Ventilated, Interior Cooling (IC 01)
	Mounting	Horizontal Foot Mounted, with or without C-flange (IM 1001, IM 2101) F1
APPLICATION	Power Condition	Voltage：±10%, Frequency：±5%, and 10% Max. of Combined Voltage and Frequency, But Frequency Variation does not Exceed ±5%.
	Designed Primarily	HVAC, Fan, Compressor and Pumps
	Environment Conditions	Place：Non - Hazardous. Ambient Temperature：-15℃ ~ 40℃ . Relative Humidity：Less Than 90%RH (Non - Condensation). Altitude：Less Than 3,300ft.
	Drive Method	Belt Service, or Direct Coupling Service
	Direction of Rotation	Bi - Directional
	Method of Starting	Full Voltage Direct On Line
PERFORMANCE	Temperature Rise	B Rise, Not to Exceed 90˚C. for S.F. 1.15 or 80˚C for S.F. 1.0 by Resistance Method.
	Over Speed	125% Syn. R.P.M. for 2 Minutes. (2,4 Poles)
	Over Torque	160% Rated Torque for 15 Sec.

Performance Data BSGS39 - 115/230V 60Hz

Output		Full Load	Frame NO.	Frame NO.	Full Load				Locked Rotor			Break Down Torque	Starting Capacitor		Running Capacitor		Rotor Wk²
					Torque	Eff.	P.F.	Current	Torque	KVA	Current		MFD	VAC	MFD	VAC	
HP	kW	(rpm)	(1)	(2)	lb-ft	(%)	(%)	(A)	%FLT	CODE	(A)	%FLT					lb-ft²
1/4	0.18	3500	48	56	0.360	66.6	90.0	1.31	310	L	10	220	200	125	20	250	0.007
		1740	48	56	0.720	68.5	81.0	1.41	300	K	8.7	240	150	125	25	250	0.026
1/3	0.25	3500	48	56	0.500	70.5	90.0	1.71	310	L	14	230	250	125	25	250	0.007
		1740	48	56	1.010	72.4	81.0	1.85	330	K	12	250	200	125	30	250	0.036
1/2	0.37	3510	48	56	0.740	72.4	90.0	2.47	330	L	20	260	300	125	35	250	0.009
		1740	48	56	1.490	76.2	83.0	2.54	280	H	15	240	250	125	35	250	0.045
3/4	0.55	3510	48	56	1.100	76.2	92.0	3.41	330	K	28	250	350	125	40	250	0.010
		1750	56H	143T	2.210	81.8	90.0	3.25	270	H	21	230	250	165	35	250	0.085
1	0.75	3500	56H	143T	1.500	80.4	92.0	4.41	330	H	31	250	400	165	60	250	0.036
		1750	56H	143T	3.010	82.6	90.0	4.39	280	H	31	250	350	165	40	250	0.108
1.5	1.1	3500	56H	143T	2.210	81.5	96.0	6.11	320	H	46	270	500	165	80	250	0.045
		1740	56H	145T	4.450	83.8	96.0	5.94	250	H	41	230	450	165	80	250	0.142
2	1.5	3500	56H	145T	3.010	82.9	96.0	8.19	310	H	56	260	550	165	100	250	0.052
		1740	56H	145T	6.070	84.5	96.0	8.04	260	G	52	200	550	165	100	250	0.164
3	2.2	3510	56H	145T	4.410	84.1	98.0	11.6	310	J	97	270	250	300	40	450	0.069

NOTE:
1. The above are typical values based on test according to ANSI / IEEE standard 114 method B.
2. Breakdown & Locked rotor torques are show as average expected values.
3. Efficiency, power factor, speed and torque are the same for other voltages.
   Current values vary inversely with voltage.
4. 3 HP Rated Voltage 230V only.
5. Tolerance according to IEC 60034-1.
6. Data subject to change without notice.

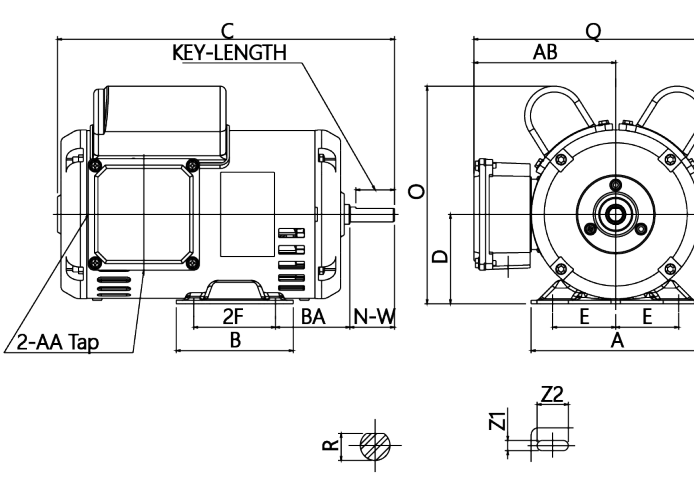


FIG.1

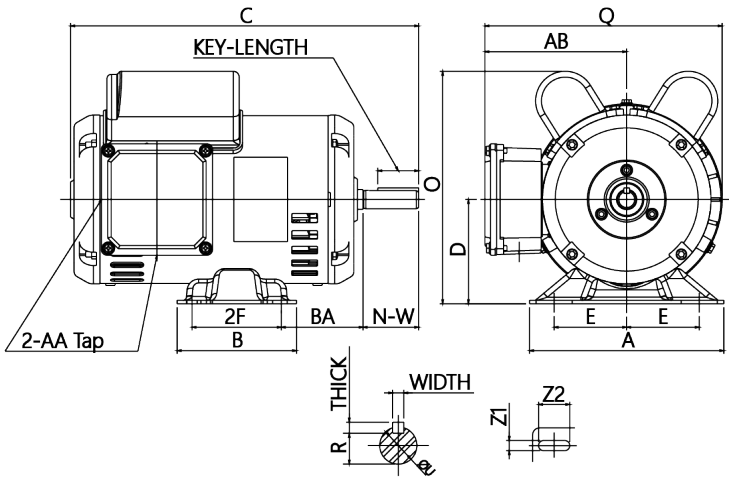


FIG.2

(Dimension in inches)

Output(HP)		FRAME SIZE	FIG. NO.	Mounting			A	B	C	D	O	Q	Z1	Z2
2P	4P			E	2F	BA								
1/4	1/4	48	FIG.1	2.12	2.75	2.50	5.69	3.94	10.80	3.00	7.30	7.83	0.34	1.05
1/3	-													
1/2	1/3								11.40					
3/4	1/2								12.00					
1/4	1/4	56	FIG.2	2.44	3.00	2.75	6.54	4.02	11.10	3.50	7.80	8		1.22
1/3	-													
1/2	1/3								11.70					
3/4	1/2								12.30					

FRAME SIZE	Key			Keyseat	Terminal Housing		Shaft Extension		Bearings		APPROX. WEIGHT LBS	
	Width	Thick	Length	R	AA	AB	N-W	U	DRIVE END	OPPOSITE DRIVE END	2P	4P
48	-	-	1.3	0.453	NPT 1/2"	4.77	1.500	0.5	6203ZZ	6202ZZ	20.5	22.0
											21.4	-
											24.9	26.2
											28.2	29.3
56	0.188	0.188	1.41	0.517			1.875	0.625			20.7	22.3
											21.6	-
											25.1	26.5
											28.4	29.5

Note :
1. Dimension D tolerance : +0.00 inch , -0.06 inch .
2. Dimension U tolerance : +0.000 inch , -0.0005 inch .
3. Dimension R tolerance : +0.000 inch , -0.015 inch .

Outline Dimension Sheet BSGS39 - Frame 56H

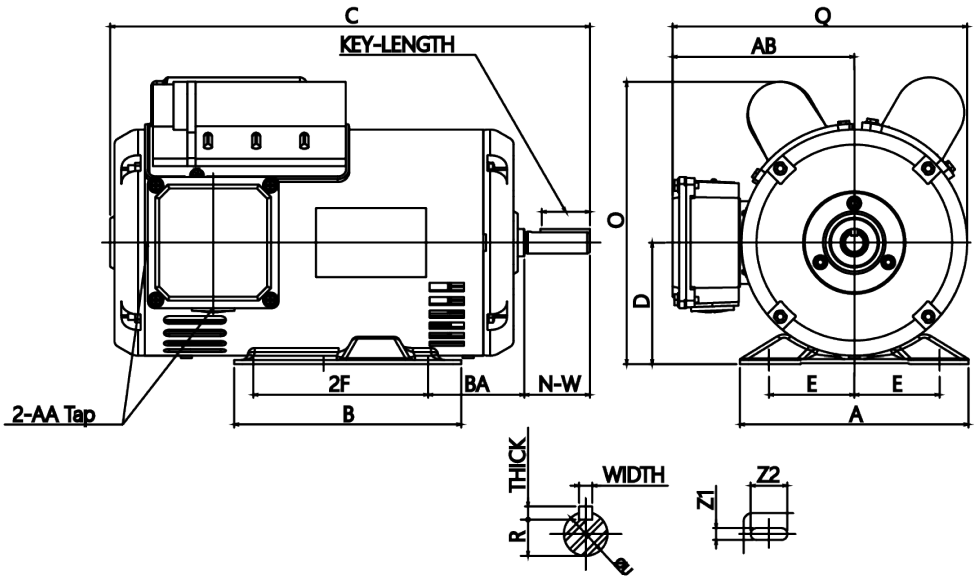


FIG.3

(Dimension in inches)

Output(HP)		FRAME SIZE	FIG. NO.	Mounting			A	B	C	D	O	Q	Z1	Z2
2P	4P			E	2F	BA								
1	3/4	56H	FIG.3	2.44	5.00	2.75	6.54	6.50	12.90	3.50	8.22	8.47	0.34	1.22
1.5	1								13.70					
2	-													
3	-								14.50					
-	1.5								14.90					
-	2								15.90					

FRAME SIZE	Key			Keyseat	Terminal Housing		Shaft Extension		Bearings		APPROX. WEIGHT LBS	
	Width	Thick	Length	R	AA	AB	N-W	U	DRIVE END	OPPOSITE DRIVE END	2P	4P
56H	0.188	0.188	1.41	0.517	NPT 1/2"	5.20	1.875	0.625	6204ZZ	6203ZZ	35.1	38.8
											39.7	44.8
											42.8	-
											52.7	-
											-	52.7
											-	58.6

Note :
1. Dimension D tolerance : +0.00 inch , -0.06 inch .
2. Dimension U tolerance : +0.000 inch , -0.0005 inch .
3. Dimension R tolerance : +0.000 inch , -0.015 inch .

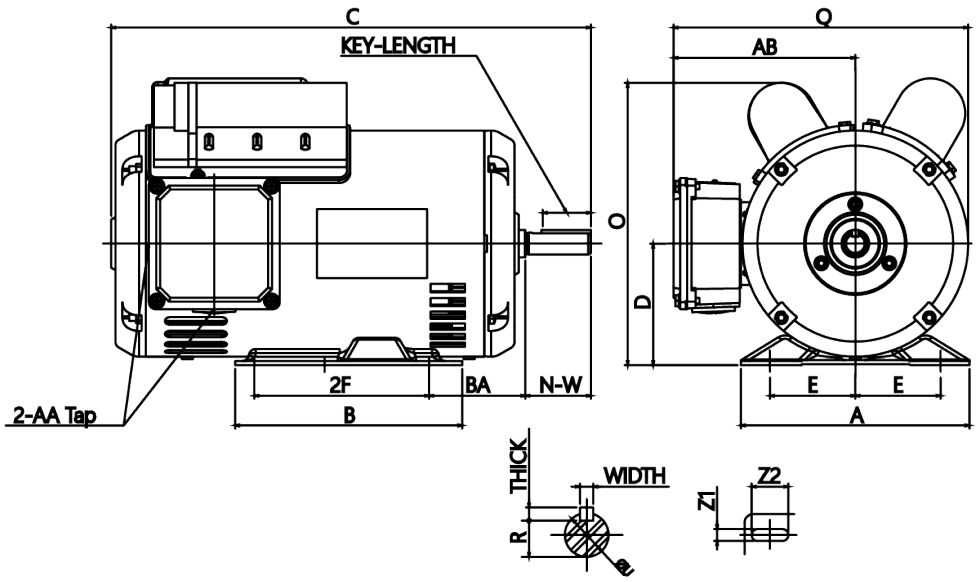


FIG.4

(Dimension in inches)

Output(HP)		FRAME SIZE	FIG. NO.	Mounting			A	B	C	D	O	Q	Z1	Z2
2P	4P			E	2F	BA								
1	3/4	143T	FIG.4	2.75	4.00	2.25	6.54	5.91	13.30	3.50	8.22	8.47	0.34	0.5
1.5	1								14.10					
2	-	145T												
3	-								14.90					
-	1.5				5.00				15.30					
-	2								16.10					

FRAME SIZE	Key			Keyseat	Terminal Housing		Shaft Extension		Bearings		APPROX. WEIGHT LBS	
	Width	Thick	Length	R	AA	AB	N-W	U	DRIVE END	OPPOSITE DRIVE END	2P	4P
140T	0.188	0.188	1.41	0.771	NPT 1/2"	5.20	2.250	0.875	6205ZZ	6203ZZ	35.5	39.2
											40.1	45.2
											43.2	-
											53.1	-
											-	53.1
											-	59.1

Note :
1. Dimension D tolerance : +0.00 inch , -0.06 inch .
2. Dimension U tolerance : +0.000 inch , -0.0005 inch .
3. Dimension R tolerance : +0.000 inch , -0.015 inch .

BECCFD/BECSFD Spec Sheet

RATING	Kind of Motor	Squirrel - Cage Single Phase Induction Motors (Capacitor Start Induction Run or Capacitor Start and Permanent Split Capacitor Run)
	Voltages	Rated Voltage 115 / 230V (208V De - Rating Operation) . 3HP ~ 10HP 230V Single Voltage
	Frequency	60Hz
	Output Range	1HP ~ 10HP , 1 ~ 1 1/2HP Capacitor Start Induction Run (BECCFD) 2HP~10HP Capacitor Start and Permanent Split Capacitor Run (BECSFD)
	R.P.M. (Syn.)	1800 R.P.M
	Time Duty	Continuous . S.F. 1.15 .
	Frame Size.	143T ~ 215T
	Protection Enclosure	Totally Enclosed Fan Cooled (IP 44)
	Cooling Method	Self External Fan, Surface Cooling (IC 411)
	Mounting	Horizontal Foot Mounting (F-1)
APPLICATION	Power Condition	Voltage：± 10%, Frequency ± 5%, and 10% Max. of Combined Voltage and Frequency, But Frequency Variation does not Exceed ±5%.
	Environment Conditions	Place：Non - Hazardous. Ambient Temperature：-15℃ ~ 40℃ Relative Humidity：Less Than 90%RH (Non - Condensation) Altitude：Less Than 1,000m (3300 ft)
	Drive Method	Belt Service or Direct Coupling Service
	Direction of Rotation	Bi - Directional
	Method of Starting	Full Voltage Direct On Line
PERFORMANCE	Winding Temperature Rise	B Class Insulation Not to Exceed 90℃ for S.F. 1.15 or 80℃ for S.F. 1.0 by Resistance Method . F Class Insulation Not to Exceed 115℃ for S.F. 1.15 or 105℃ for S.F. 1.0 by Resistance Method
	Over Speed	120% Syn. R.P.M. for 2 Minutes
	Over Torque	160% Rated Torque for 15 Sec.

Performance Data BECCFD/BECSFD - 115/230V 60Hz

Output		Full Load (rpm)	Frame NO.	Full Load				Locked Rotor		Max Torque %	Starting Capacitor		Running Capacitor	
HP	kW			Torque lb-ft	Eff. (%)	P.F. (%)	Current (A)	Torque %	Current (A)		MFD	VAC	MFD	VAC
1	0.75	1750	143T	3.0	70.0	66.0	7	300	40	270	400	125	-	-
1.5	1.1	1740	145T	4.5	70.0	63.0	11	350	58	260	500	125	-	-
2	1.5	1750	182T	6.0	73.0	63.5	14	340	89	330	800	125	60	250
3	2.2	1760	182T	8.9	74.0	63.0	21	400	156	340	300	250	20	440
5	3.5	1750	184T	15.0	78.5	69.0	30	340	192	300	400	250	25	440
7.5	5.5	1740	213T	22.6	80.0	84.5	36	350	218	240	560	330	60	440
10	7.5	1710	215T	31.0	78.5	87.0	48	350	275	220	720	330	100	440

NOTE:
1. The above are typical values based on test
2. Breakdown & locked rotor torque are shown as actual value
3. Actual load & full voltage starting：According to ANSI / IEEE Standard 114
4. Data subject to change without notice.
5. BECCFD is Capacitor Start Induction Run
   BECSFD is Capacitor Start and Permanent Split Capacitor Run
6. 3HP - 10HP Rated Voltage 230V only

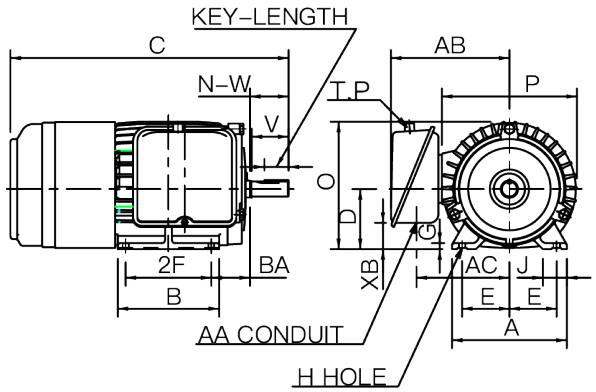
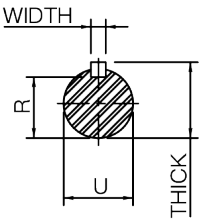


FIG.1



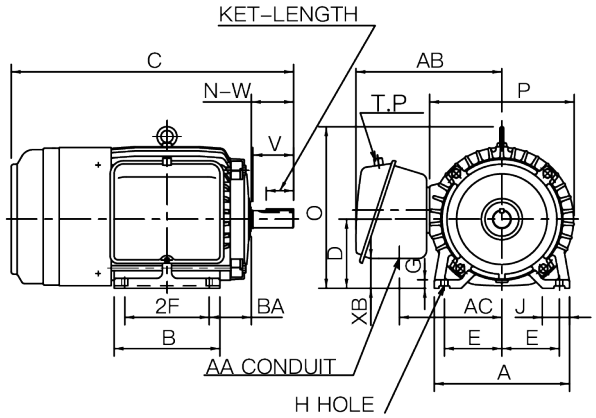


FIG.2

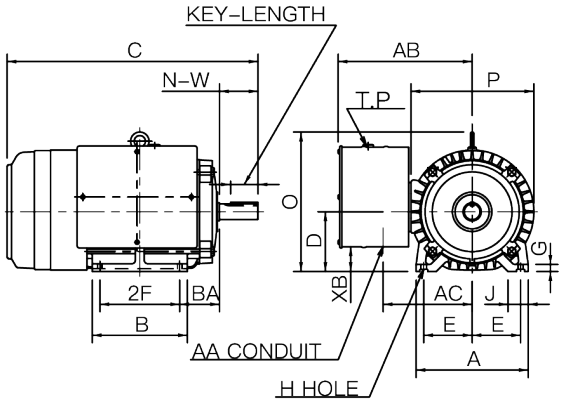


FIG.3

(Dimension in inches)

Output(HP)	FRAME SIZE	FIG. NO.	Mounting				A	B	C	D	G	J	O	P	Keyseat
4P			E	2F	H	BA									R
1	143T	FIG.1	2.75	4.00	0.34	2.25	6.70	5.12	15.23	3.50	0.35	1.40	7.45	7.87	0.771
1.5 2	145T		2.75	5.00	0.34	2.25	6.70	5.90	16.21	3.50	0.35	1.40	7.45	7.87	0.771
3	182T	FIG.2	3.75	4.50	0.41	2.75	8.80	5.90	17.38	4.50	4.50	1.75	10.47	9.37	0.986
5	184T		3.75	5.50	0.41	2.75	8.80	6.90	18.41	4.50	4.50	1.75	10.47	9.37	0.986
7.5	213T	FIG.3	4.25	5.50	0.41	3.50	9.85	6.90	20.54	5.25	5.25	1.75	12.28	10.75	1.201
10	215T		4.25	7.00	0.41	3.50	9.85	8.35	22.03	5.25	5.25	1.75	12.28	10.75	1.201

FRAME SIZE	Key			Shaft Extension			Terminal Housing				Mounting		APPROX. WEIGHT LBS
	Width	Thick	Length	N-W	U	V	AA	AB	AC	XB	DRIVE END	OPPOSITE DRIVE END	
143T	0.188	0.188	1.41	2.25	0.875	2.2	0.87	6.81	5.12	1.22	6205ZZ	6205ZZ	48
145T	0.188	0.188	1.41	2.25	0.875	2.2	0.87	6.81	5.12	1.22	6205ZZ	6205ZZ	70
182T	0.250	0.250	1.78	2.75	1.125	2.7	0.87	7.64	5.99	1.63	6306ZZ	6306ZZ	92
184T	0.250	0.250	1.78	2.75	1.125	2.7	0.87	7.64	5.99	1.63	6306ZZ	6306ZZ	103
213T	0.312	0.312	2.41	3.38	1.375	3.3	0.87	11.76	7.74	2.18	6308ZZ	6306ZZ	178
215T	0.312	0.312	2.41	3.38	1.375	3.3	0.87	11.76	7.74	2.18	6308ZZ	6306ZZ	181

Note :
1. Dimension D tolerance : +0.00 inch , -0.03 inch
2. Dimension U tolerance : +0.000 inch , -0.0005 inch
3. Dimension R tolerance : +0.000 inch , -0.015 inch
4. Dimension V is length of straight part of shaft.

BEGCFD Spec Sheet

RATING	Kind of Motor	Squirrel - Cage Single Phase Induction Motors (Capacitor Start Induction Run)
	Voltages	Rated Voltage 115 / 230V
	Frequency	60Hz
	Output Range	1/3HP-1HP
	R.P.M. (Syn.)	1800 R.P.M
	Time Duty	Continuous
	Frame Size.	56
	Protection Enclosure	Totally Enclosed Fan Cooled (IP 44)
	Cooling Method	Self External Fan, Surface Cooling (IC 411)
	Mounting	Horizontal Foot Mounting (IM1001)
APPLICATION	Power Condition	Voltage：± 10%, Frequency ± 5%, and 10% Max. of Combined Voltage and Frequency, But Frequency Variation does not Exceed ±5%.
	Environment Conditions	Place：Non - Hazardous. Ambient Temperature：-15℃ ~ 40℃ Relative Humidity：Less Than 90%RH (Non - Condensation) Altitude：Less Than 1,000m (3300 ft)
	Drive Method	Belt Service or Direct Coupling Service
	Direction of Rotation	Bi - Directional
	Method of Starting	Full Voltage Direct On Line
CONSTRUCTION	Frame	Steel Plate
	End Bracket (Shield)	Aluminum Alloy with Steel Insert:For opposite Drive End,Cast Iron for Drive End
	External Fan	Plastic
	Fan Cover	Pressed Steel

BEGCFD Spec Sheet

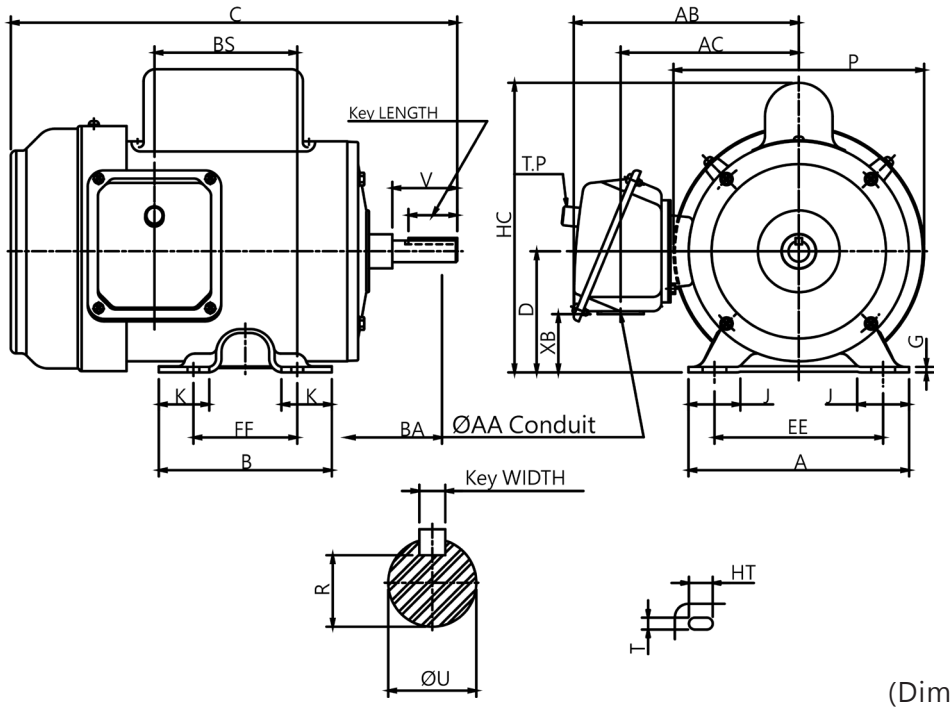
CONSTRUCTION	Shaft	Carbon Steel, Cylindrical Single Extension With Keyseat and Key
	Bearing	Bracket Mounting,Grease Pre-Packed Shielded Rolling Bearings
	Lubrication	Mineral Oil,Li-Base Grease(MULTEMP SRL)
	Terminal Housing	Pressed Steel,with Clearance Hole Cable Entrance,Located on Left Side View From Drive End
	Iron Core	High Grade, Insulated, Cold-Rolled Electro-Magnetic Steel Plate
	Stator Winding	Pre-Formed,Coiles of Polyester of Enameled Copper Wires
	Stator Insulation	Class B Insulation
	Rotor Winding	Squirrel Cage, Aluminum Conductor With End-Ring and Wafer Blades Integrally Cast.
	Painting	Phenolic Base Paint,Plus Lacquer Surface Finished Painting in Sliver-Hammerdone Color(MUNSELL 5G4/4)
	Name Plate	Polyester
	Bolt Thread	ISO Metric System
	Grounding Terminal	Be Set Inside The Terminal Housing
	Over Protector	Full Voltage Direct On Line
PERFORMANCE	Temperature Rise	Not to Exceed 80° C by Resistance Method
	Over Speed	120% Syn. R.P.M. for 2 Minutes
	Over Torque	160% Rated Torque for 15 Sec.

Performance Data BEGCFD - 115/230V 60Hz

Output		Full Load (rpm)	Frame NO.	Full Load				Locked Rotor		Max Torque %	Capacitor		ROTOR WK² lb-ft²
				Torque kg-m	Eff. (%)	P.F. (%)	Current (A)	Torque %	Current (A)		Start		
HP	kW										uf	VAC	
1/3	0.25	1770	56	0.137	53	47	8.8	450	44	420	200	125	0.066
1/2	0.37	1755	56	0.204	59	55	9.9	450	53	350	250	125	0.083
3/4	0.55	1750	56	0.304	66	59	12.2	330	65	285	300	125	0.098
1	0.75	1750	56	0.416	67	67	14.5	290	68	270	400	125	0.109

NOTE:
1. The above are typical values based on test
2. Breakdown & locked rotor torque are shown as actual value
3. Actual load & full voltage starting :According to ANSI/IEEE Standard 112 method B and tolerances according to IEC 60034-1
4. Data subject to change without notice.

Outline Dimension Sheet BEGCFD - Frame 56



(Dimension in inches)

Output(HP)	FRAME SIZE	Mounting			A	B	C	G	J	K	HC	P	T	HT	BS
4P		EE	FF	BA											
1/3	56	4.88	3.00	2.75	6.38	5.00	13.12	0.16	1.53	1.46	8.37	7.24	0.34	0.68	4.38
1/2	56	4.88	3.00	2.75	6.38	5.00	13.12	0.16	1.53	1.46	8.37	7.24	0.34	0.68	4.38
3/4	56	4.88	3.00	2.75	6.38	5.00	13.87	0.16	1.53	1.46	8.62	7.24	0.34	0.68	5.13
1	56	4.88	3.00	2.75	6.38	5.00	13.87	0.16	1.53	1.46	8.86	7.24	0.34	0.68	5.13

FRAME SIZE	Key			R	Shaft Extension		Terminal Housing				Bearings		APPROX. WEIGHT LBS
	Width	Thick	Length		V	U	AA	AB	AC	XB	DRIVE END	OPPOSITE DRIVE END	
56	0.188	0.188	1.41	0.517	0.875	0.625	1.1	6.5	5.15	1.47	6205ZZ	6203ZZ	13.5
56	0.188	0.188	1.41	0.517	0.875	0.625	1.1	6.5	5.15	1.47	6205ZZ	6203ZZ	14.5
56	0.188	0.188	1.41	0.517	0.875	0.625	1.1	6.5	5.15	1.47	6205ZZ	6203ZZ	16
56	0.188	0.188	1.41	0.517	0.875	0.625	1.1	6.5	5.15	1.47	6205ZZ	6203ZZ	17

Note :
1. Dimension in Inches
2. Tolerance of U:+0, -0.0005
3. Tolerance of D:+0, -0.06
4. Tolerance of R:+0, -0.015

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