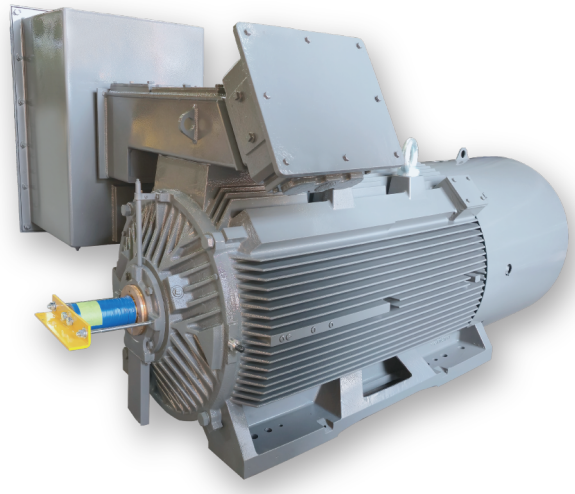
Premium Efficiency Medium-voltage Induction Motor

AFHP Series



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Medium-Voltage Premium Efficiency Induction Motors

The AFHP series medium-voltage motors are designed to deliver high efficiency, reliability, and long service life for demanding industrial applications. Built in accordance with NEMA MG-1 standards, these motors feature robust cast-iron construction and optimized electrical design to ensure stable operation under harsh environments.

With a power range from 200 to 2000 HP, voltage up to 4160V, and compatibility with inverter duty operation, the AFHP series provides flexible solutions for pumps, compressors, and various heavy-duty applications, ensuring maximum performance and reduced lifecycle cost.

- High efficiency performance reducing energy costs
- Robust construction for severe industrial environments
- Optimized for continuous operation and inverter duty applications

Reasons for AFHP series

Energy Saving

Reliable Operation

Industrial Grade

Inverter Ready

Low Noise

Industries & Applications

Petrochemical & Chemical

Water & Wastewater

Power Generation

Pumps, Fans & Blowers

Product Information

RATING	Kind of Motors	Squirrel-Cage Induction Motor (SCIM), F3 Frame
	Design Standard	NEMA MG-1
	Voltages	2300/4000V
	Frequency	60 Hz (rated sinusoidal or PWM power source)
	Output Range	200 – 2000 HP
	R.P.M	3600 – 900 R.P.M (2–8 poles)
	Time Duty	Continuous duty (S1), Service Factor 1.15 (sinewave) / 1.0 (VFD)
	Frame Size	F5009A – 6812B
	Protection Enclosure	Totally Enclosed (IP55)
	Cooling Method	Self External Fan, Surface Cooling (IC 411)
	Mounting	Horizontal foot-mounted (IM1001, B3)
APPLICATION	Power Condition	Voltage: ±10%, Frequency ±5%, and 10% max. of combined voltage and frequency but frequency variation does not exceed ±5%
	Environment Conditions	Shadow, Non-Hazardous. CSA CLASS I DIV.2,GROUP A,B,C & D(OPTION) CSA CLASS II DIV.2,GROUP F & G (OPTION)
	Ambient Temperature	-20 ~ 40°C (40°C max. or 55°C @ S.F. 1.0 sinusoidal)
	Altitude	Less Than 3,300 FT
	Drive Method	Direct coupling, suitable for fluid duty only
	Direction of Rotation	Bi-directional, except 2 pole which is clock-wise facing the opposite drive end
CONSTRUCTION	Frame	High grade cast iron
	End Bracket	High Grade Cast Iron
	External Fan	Aluminum or steel plate except 2 pole which is reinforced plastic
	Fan Cover	Steel plate fabricated
	Shaft	Carbon steel (or chrome-molybdenum steel for 8 pole 900HP), cylindrical single extension with keyway and key
	Bearing	Bracket mounting, vacuum de-gassed high quality rolling bearings with regrease provisions.All motors with DE ball bearings suitable for direct coupled applications must be prohibited from any axial movement of the drive end bearing and all axial thermal growth must always be towards the non drive end
	Lubricant	Mineral oil, polyurea-base grease (Mobil Polyrex EM grease)
	Shaft Flinger	Metal flingers on both ends can be replaced with Inproseal

Product Information

CONSTRUCTION	Terminal Box	Steel plate, large size, threaded for external conduit entrance, F-1 & F-2 are available with a F-3 mounted adapter (F-1 as standard)
	Lead Terminal	6 leads, with solderless lug terminalsDrain plug per IEEE-841 para. 6.6
	Iron Core	High grade, insulated, cold-rolled electro-magnetic steel plate
	Stator Winding	Mica insulated formed wound coil
	Stator Insulation	Class F Insulation System
	Varnish Treatment	VPI treatment of solventless epoxy varnish
	Rotor Winding	Squirrel-cage, copper rotor or aluminum rotor with end-ring wafer blades integrally cast
	Painting	Epoxy proof base, finish painting in blue-gray color (Munsell 7.5B 3.5/0.5), DFT 100μm min. outdoor use
	Name Plate	Stainless Steel Plate
	Bolt Thread	ISO Metric System
	Grounding Terminal	Be set inside of terminal box and on foot of frame
	Vibration sensors	Part # VB-300SCBEX as standard vibration sensor
PERFORMANCE	Test procedure	IEEE-112 method B, and full voltage measuring starting performance for motors not over 300HP, IEEE-112 method E、F and reduced voltage measuring starting performance for the others
	Temperature Rise	Not to Exceed 80K for S.F.1.0 by Resistance Method
	Over speed	201HP and larger: 120% syn. rpm for two minutes (2P); 125% syn. rpm for two minutes (4P and slower)201HP and smaller: 125% syn. rpm for two minutes (2&4P); 150% syn. rpm for two minutes (6&8P)
	Speed range	Variable torque: 10:1, constant torque: 3:1
	Over Torque	160% rated torque for 15 sec
	Noise	Sound pressure level measured at 1 meter distance & no-load condition per IEEE 85 method (tolerance ±3dBA)

2 Pole

OUTPUT	FULL LOAD	FRAME NO.	EFFICIENCY				POWER FACTOR			CURRENT			TORQUE		Safe Stall Times		Rotor WR²	Max Load WR²	APPROX. WEIGHT
HP	RPM	(EG)	NOM. %	MIN. %	3/4 %	1/2 %	FULL %	3/4 %	1/2 %	Rated A	Starting %	Starting A	Starting %	Max. %	HOT SEC	COLD SEC	LB-FT²	LB-FT²	LBS
250	3578	5009A	95.0	94.1	94.5	93.6	85.0	83.0	76.0	58	682	395	100	230	20	26	40	213	3220
300	3578	5009A	95.4	94.5	95.0	94.5	86.0	83.0	75.0	68	693	474	100	230	20	26	50	237	3440
350	3578	5009A	95.8	95.0	95.4	95.0	87.0	86.0	81.0	79	704	554	100	230	21	26	60	284	3660
400	3586	5011A	95.8	95.0	95.4	95.0	88.0	87.0	82.0	89	712	633	100	230	23	28	71	308	4370
450	3586	5011A	95.8	95.0	95.4	95.0	88.0	87.0	82.0	100	712	712	100	230	25	31	81	355	4550
500	3586	5011A	95.8	95.0	95.4	95.0	88.0	87.0	82.0	111	712	791	100	230	21	26	88	379	4660
600	3586	5011A※	95.8	95.0	95.4	95.0	87.0	85.0	80.0	135	704	949	90	220	28	32	92	450	4950
700	3584	5810A※	95.8	95.0	95.4	95.0	87.0	86.0	81.0	157	704	1107	90	220	20	30	155	497	6020
800	3584	5810A※	96.2	95.4	95.8	95.4	88.0	87.0	84.0	177	715	1265	90	220	20	30	177	568	6380
900	3584	5810A※	96.5	95.8	96.2	95.5	87.0	86.0	83.0	201	709	1423	100	210	28	39	186	616	6500

NOTE:
1.Test standard : IEEE-112.
2.Tolerance : NEMA MG1.
3.Number of consec. starts : 2 Cold 1 Hot.
4.Data presented in rating lists are typical values. Guaranteed values on request.
Legally binding performance and specification data is given to the end user once each order is confirmed.
5.This performance data is only for sinepower, not suitable for PWM power source.
6.The voltage and frequency combinations not included in performance data are quoted case by case.
7.With "※" : COPPER ROTOR
8.Without "※" : ALUMINUM ROTOR

4 Pole

OUTPUT	FULL LOAD	FRAME NO.	EFFICIENCY				POWER FACTOR			CURRENT			TORQUE		Safe Stall Times		Rotor WR^2	Max Load WR^2	APPROX. WEIGHT
HP	RPM	(EG)	NOM. %	MIN. %	3/4 %	1/2 %	FULL %	3/4 %	1/2 %	Rated A	Starting %	Starting A	Starting %	Max. %	HOT SEC	COLD SEC	$LB\text{-}FT^2$	$LB\text{-}FT^2$	LBS
250	1786	5009B	95.0	94.1	94.5	94.1	86.0	83.0	76.0	57	690	395	120	230	22	27	113	1364	3450
300	1786	5009B	95.0	94.1	94.5	94.1	86.0	84.0	77.0	69	690	474	130	230	23	26	127	1620	3580
350	1786	5009B	95.0	94.1	94.5	94.1	87.0	84.0	77.0	79	698	554	130	230	22	29	141	1854	3700
400	1788	5011B	95.4	94.5	95.0	94.5	87.0	86.0	80.0	90	701	633	130	230	21	27	155	2089	4350
450	1788	5011B	95.4	94.5	95.4	94.5	87.0	86.0	82.0	102	701	712	130	230	22	27	168	2302	4510
500	1788	5011B	95.8	95.0	95.4	95.0	87.0	86.0	80.0	112	704	791	130	230	29	35	186	2536	4660
600	1788	5011B※	95.8	95.0	95.4	95.0	88.0	87.0	82.0	133	712	949	130	230	22	28	220	2962	4860
700	1786	5810B※	96.2	95.4	95.8	95.4	85.0	82.0	76.0	160	691	1107	100	200	25	35	228	3389	6500
800	1788	5810B※	96.5	95.8	96.2	95.8	86.0	84.0	78.0	181	701	1265	100	200	21	29	261	3794	6800
900	1788	5810B※	96.5	95.8	96.2	95.8	86.0	85.0	78.0	203	701	1423	100	200	22	28	279	4177	6800
1000	1789	5810B※	96.5	95.8	96.2	95.8	86.0	85.0	81.0	226	701	1581	100	200	24	28	297	4561	6950
1000	1790	6808B※	96.5	95.8	96.2	95.8	87.0	85.0	80.0	223	709	1581	100	220	26	36	632	4061	8640
1250	1790	6808B※	96.5	95.8	96.2	95.8	87.0	85.0	80.0	279	709	1977	100	220	27	36	727	4878	9900
1500	1790	6812B※	96.8	96.2	96.5	96.2	85.0	82.0	74.0	341	695	2372	100	220	30	34	927	5174	12050
1750	1791	6812B※	96.8	96.2	96.5	96.2	88.0	86.0	80.0	385	719	2768	100	220	23	26	1085	5831	13530
2000	1791	6812B※	96.5	95.8	96.2	95.8	85.0	82.0	74.0	457	693	3163	100	220	28	34	1190	6453	13720

NOTE:

1.Test standard : IEEE-112.

2.Tolerance : NEMA MG1.

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7.With "※" : COPPER ROTOR

8.Without "※" : ALUMINUM ROTOR

6 Pole

OUTPUT	FULL LOAD	FRAME NO.	EFFICIENCY				POWER FACTOR			CURRENT			TORQUE		Safe Stall Times		Rotor WR^2	Max Load WR^2	APPROX. WEIGHT
HP	RPM	(EG)	NOM. %	MIN. %	3/4 %	1/2 %	FULL %	3/4 %	1/2 %	Rated A	Starting %	Starting A	Starting %	Max. %	HOT SEC	COLD SEC	$LB\text{-}FT^2$	$LB\text{-}FT^2$	LBS
200	1187	5009B	95.0	94.1	94.5	94.1	76.0	71.0	59.0	52	610	316	90	200	20	26	104	4028	3350
250	1187	5009B	95.0	94.1	94.5	94.1	80.0	77.0	68.0	62	642	395	90	200	21	26	129	4923	3560
300	1188	5009B	95.4	94.5	95.0	94.5	80.0	76.0	66.0	74	645	474	90	200	22	27	153	5818	3790
350	1188	5009B	95.4	94.5	95.0	94.5	79.0	75.0	66.0	87	636	554	110	200	23	26	177	6692	4010
400	1188	5011B	95.8	95.0	95.4	95.0	80.0	76.0	67.0	98	647	633	110	200	22	29	205	7545	4540
450	1189	5011B	95.8	95.0	95.4	95.0	80.0	76.0	67.0	110	647	712	110	200	21	27	236	8376	4920
500	1189	5011B※	96.2	95.4	95.8	95.4	83.0	80.0	72.0	117	674	791	110	230	22	29	236	9207	5080
600	1190	5810B※	96.2	95.4	95.8	95.4	84.0	81.0	73.0	139	683	949	120	230	20	25	385	10827	6310
700	1191	5810B※	96.5	95.8	96.2	95.8	83.0	80.0	72.0	164	676	1107	120	230	20	25	450	12404	6930
800	1192	6808B※	95.8	95.0	95.4	95.0	83.0	79.0	71.0	188	671	1265	70	210	30	34	641	13161	8580
900	1192	6808B※	95.8	95.0	95.4	95.0	82.0	78.0	70.0	215	663	1423	80	220	23	26	705	14575	9130
1000	1192	6812B※	96.2	95.4	95.8	95.4	84.0	82.0	74.0	232	682	1581	70	210	28	34	769	15961	10780
1250	1193	6812B※	96.5	95.8	96.2	95.8	82.0	77.0	67.0	296	668	1977	70	210	26	33	950	19282	11990
1500	1193	6812B※	96.5	95.8	96.2	95.8	83.0	79.0	70.0	351	676	2372	70	210	25	34	1174	22491	13040
1750	1193	6812B※	96.8	96.2	96.5	96.2	82.0	77.0	67.0	413	670	2768	70	210	26	36	1313	22491	13800

NOTE:
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8 Pole

OUTPUT	FULL LOAD	FRAME NO.	EFFICIENCY				POWER FACTOR			CURRENT			TORQUE		Safe Stall Times		Rotor WR²	Max Load WR²	APPROX. WEIGHT
HP	RPM	(EG)	NOM. %	MIN. %	3/4 %	1/2 %	FULL %	3/4 %	1/2 %	Rated A	Starting %	Starting A	Starting %	Max. %	HOT SEC	COLD SEC	LB-FT²	LB-FT²	LBS
200	888	5009B	94.5	93.6	94.5	93.6	73.0	68.0	57.0	54	583	316	100	200	24	30	140	8099	3610
250	889	5009B	95.0	94.1	94.5	94.1	74.0	69.0	59.0	67	594	395	110	200	24	30	171	9953	3960
300	889	5011B	95.0	94.1	94.5	94.1	75.0	70.0	60.0	79	602	474	110	200	24	29	209	11743	4730
350	889	5011B	95.0	94.1	94.5	94.1	75.0	70.0	60.0	92	602	554	100	200	24	30	244	13512	4970
400	891	5011B※	95.4	94.5	95.0	94.5	81.0	76.0	67.0	97	653	633	130	230	25	31	302	15260	5030
450	890	5810B※	95.4	94.5	95.0	94.5	76.0	70.0	59.0	116	613	712	120	220	28	38	364	16986	6310
500	890	5810B※	95.4	94.5	95.0	94.5	76.0	70.0	59.0	129	613	791	120	220	25	37	393	18670	6790
600	890	5810B※	95.8	95.0	95.4	95.0	76.0	70.0	59.0	154	615	949	120	220	28	35	459	21995	7260
700	891	5810B※	96.2	95.4	95.8	95.4	76.0	71.0	60.0	179	617	1107	110	220	27	33	540	25255	7720
700	892	6808B※	96.2	95.4	95.8	95.4	75.0	69.0	58.0	182	609	1107	110	220	29	35	705	25267	8900
800	892	6808B※	96.2	95.4	95.8	95.4	76.0	70.0	59.0	205	617	1265	110	220	29	35	790	25267	9400
900	892	6808B※	96.2	95.4	95.8	95.4	76.0	70.0	59.0	231	617	1423	110	220	33	40	875	28020	10070
1000	893	6812B※	96.5	95.8	96.2	95.8	76.0	70.0	59.0	255	619	1581	110	220	31	41	960	30755	12100
1250	893	6812B※	96.5	95.8	96.2	95.8	75.0	69.0	56.0	323	611	1977	110	220	30	36	1334	31881	13960
1500	895	6812B※	97.1	96.5	96.8	96.2	75.0	69.0	58.0	386	615	2372	110	220	27	32	1366	37303	14100

NOTE:
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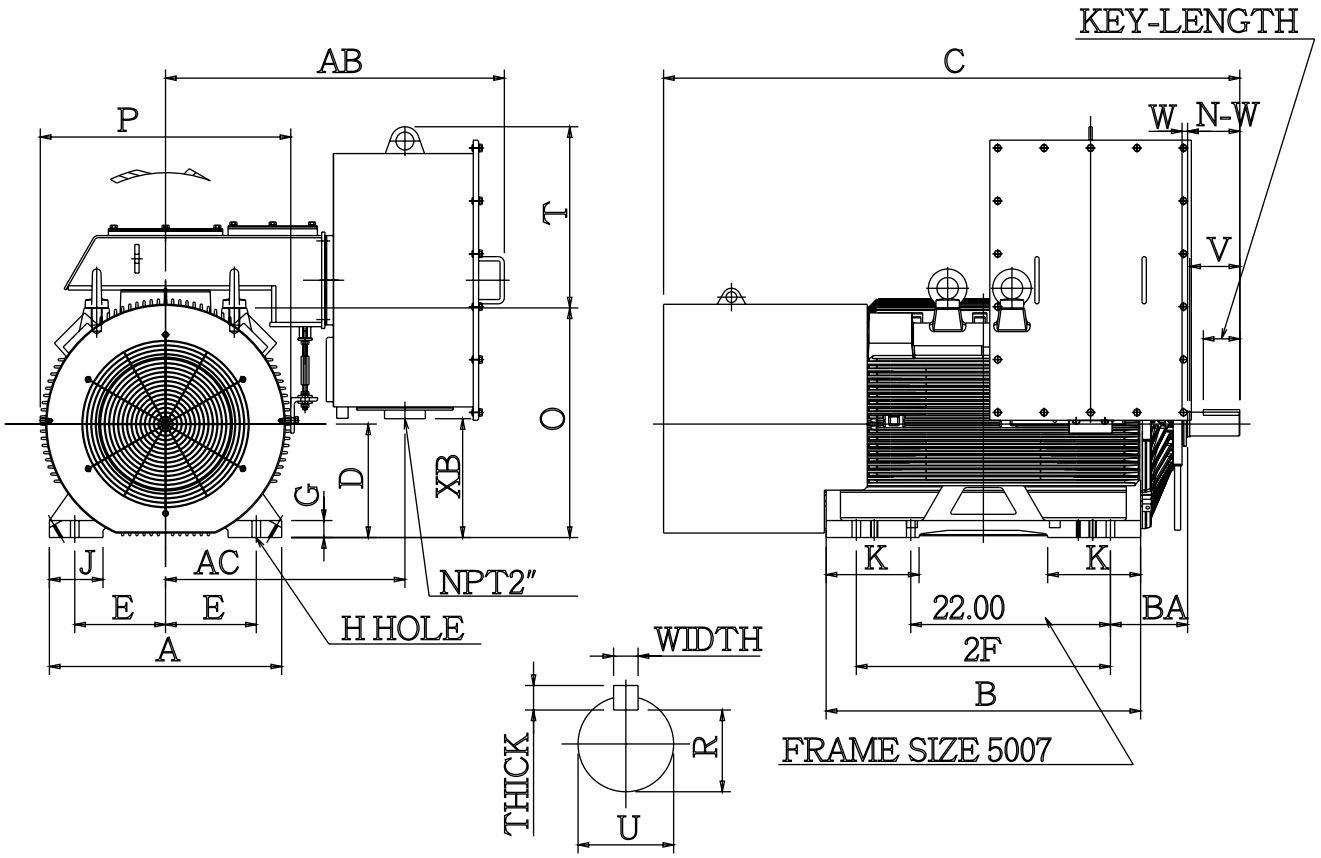


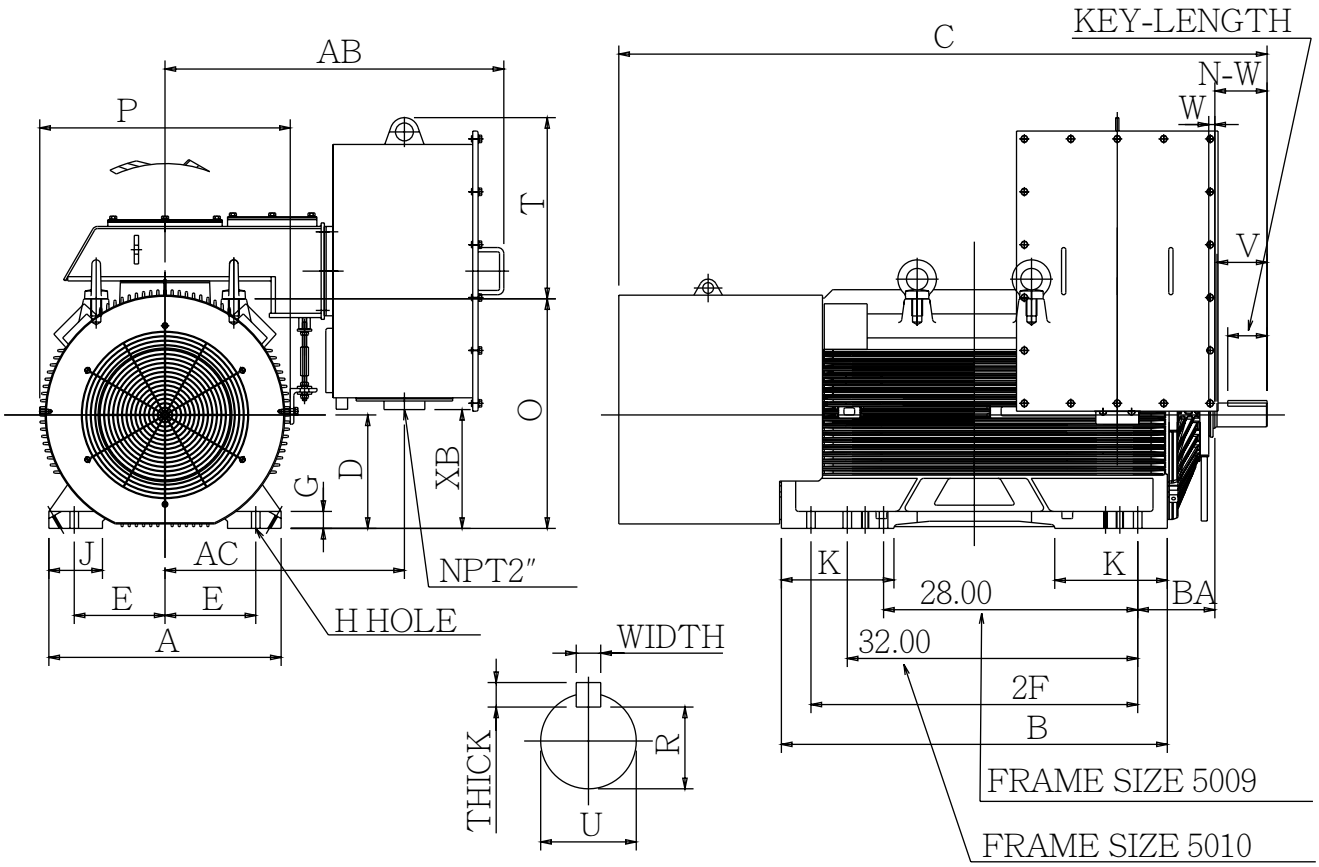
(Dimensions in inches)

FRAME SIZE (EG)	P	MOUNTING				A	B	C	D	G	J	K
		E	2F	H	BA							
5009A	2P	10.00	28.00	0.94	8.50	25.60	34.65	63.55	12.50	1.85	5.90	10.24

FRAME SIZE (EG)	W	O	P	T	KEY			KEYSEAT	TERMINAL HOUSING		
					WIDTH	THICK	LENGTH	R	AB	AC	XB
5009A	0.67	25.30	27.60	19.96	0.625	0.625	4.01	2.275	37.33	26.40	13.09

FRAME SIZE (EG)	SHAFT EXTENSION			BEARINGS	
	N-W	U	V	DRIVE END	OPP. DRIVE END
5009A	5.75	2.625	5.50	6315C3	6315C3

NOTE: 1. DIMENSION D TOLERANCE: +0.00 INCH, -0.06 INCH
2. DIMENSION U TOLERANCE: +0.000 INCH, -0.001 INCH
3. DIMENSION R TOLERANCE: +0.000 INCH, -0.015 INCH
4. DIMENSION V IS THE LENGTH OF STRAIGHT PART OF SHAFT
5. FOR DIRECT FLEXIBLE COUPLING



(Dimensions in inches)

FRAME SIZE (EG)	P	MOUNTING				A	B	C	D	G	J	K
		E	2F	H	BA							
5011A	2P	10.00	36.00	0.94	8.50	25.60	42.52	71.42	12.50	1.85	5.90	12.40

FRAME SIZE (EG)	W	O	P	T	KEY			KEYSEAT	TERMINAL HOUSING		
					WIDTH	THICK	LENGTH	R	AB	AC	XB
5011A	0.67	25.30	27.60	19.96	0.625	0.625	4.01	2.275	37.33	26.40	13.09

FRAME SIZE (EG)	SHAFT EXTENSION			BEARINGS	
	N-W	U	V	DRIVE END	OPP. DRIVE END
5011A	5.75	2.625	5.50	6315C3	6315C3

NOTE: 1. DIMENSION D TOLERANCE: +0.00 INCH, -0.06 INCH
2. DIMENSION U TOLERANCE: +0.000 INCH, -0.001 INCH
3. DIMENSION R TOLERANCE: +0.000 INCH, -0.015 INCH
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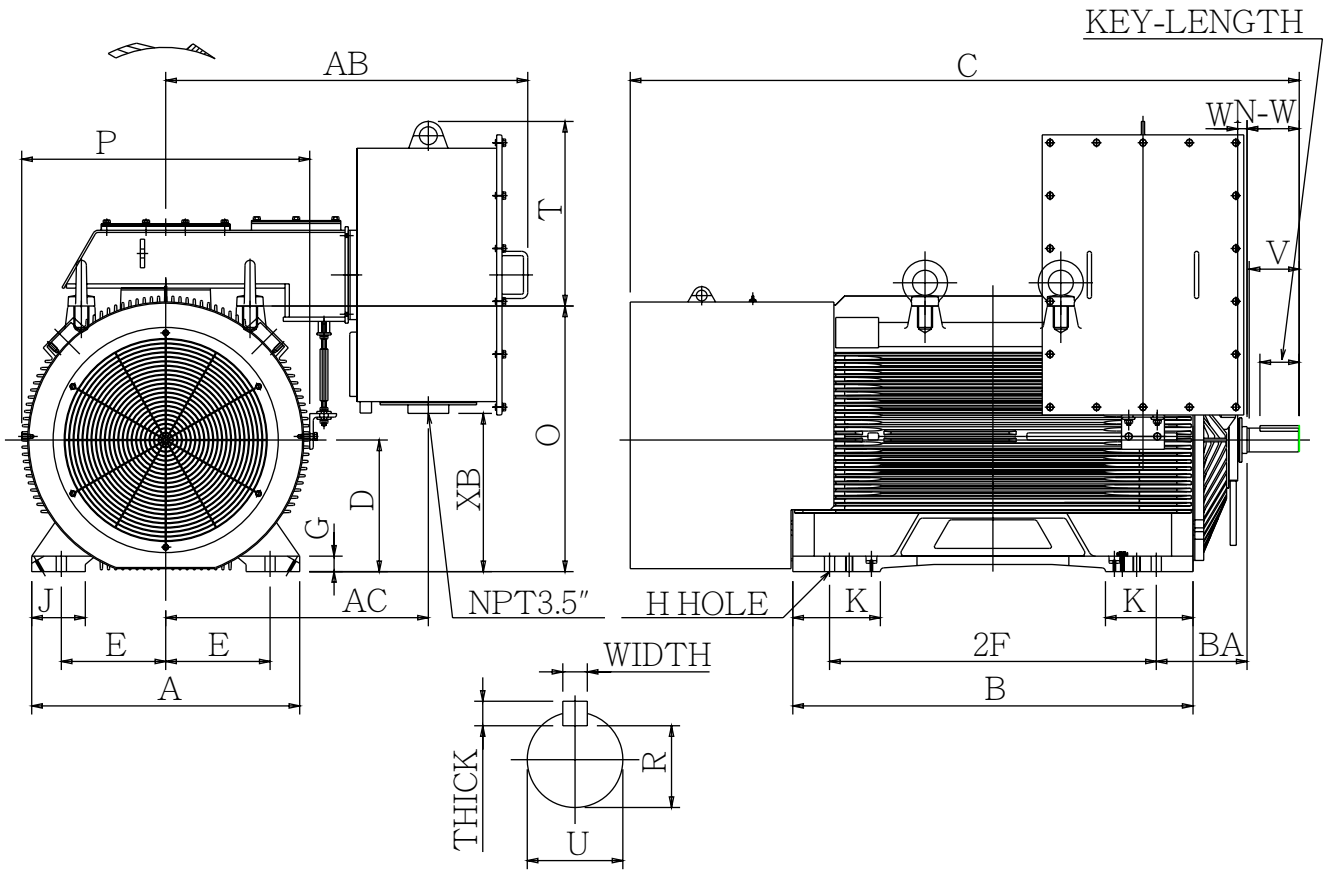
5. FOR DIRECT FLEXIBLE COUPLING



(Dimensions in inches)

FRAME SIZE (EG)	P	MOUNTING				A	B	C	D	G	J	K
		E	2F	H	BA							
5810A	2P	11.50	36.00	1.13	10.00	29.55	44.10	73.71	14.50	1.70	5.90	9.65

FRAME SIZE (EG)	W	O	P	T	KEY			KEYSEAT	TERMINAL HOUSING		
					WIDTH	THICK	LENGTH	R	AB	AC	XB
5810A	1.03	29.26	31.73	20.33	0.625	0.625	4.01	2.275	39.90	28.95	17.43

FRAME SIZE (EG)	SHAFT EXTENSION			BEARINGS	
	N-W	U	V	DRIVE END	OPP. DRIVE END
5810A	5.75	2.625	5.50	6315C3	6315C3

NOTE: 1. DIMENSION D TOLERANCE: +0.00 INCH, -0.06 INCH
2. DIMENSION U TOLERANCE: +0.000 INCH, -0.001 INCH
3. DIMENSION R TOLERANCE: +0.000 INCH, -0.015 INCH
4. DIMENSION V IS THE LENGTH OF STRAIGHT PART OF SHAFT
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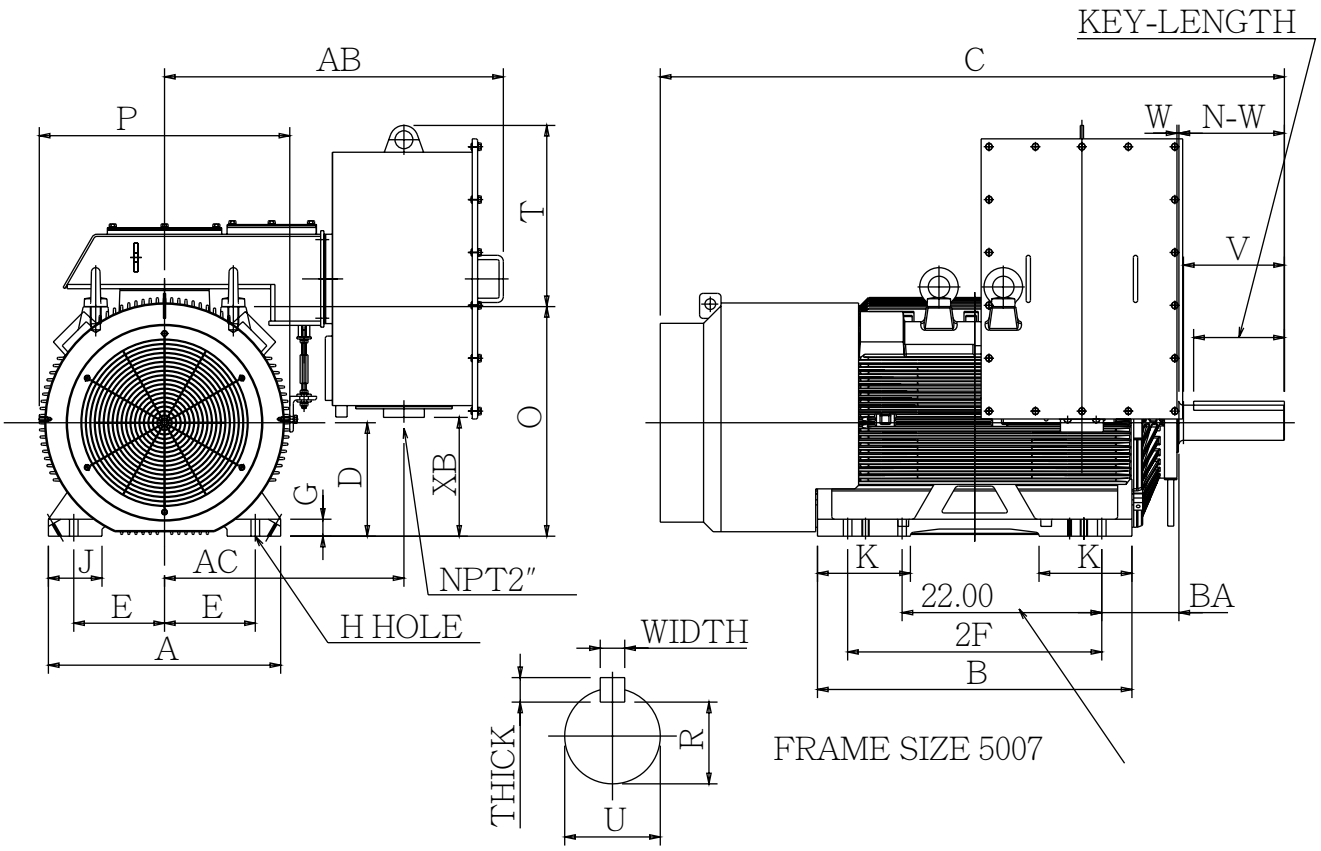


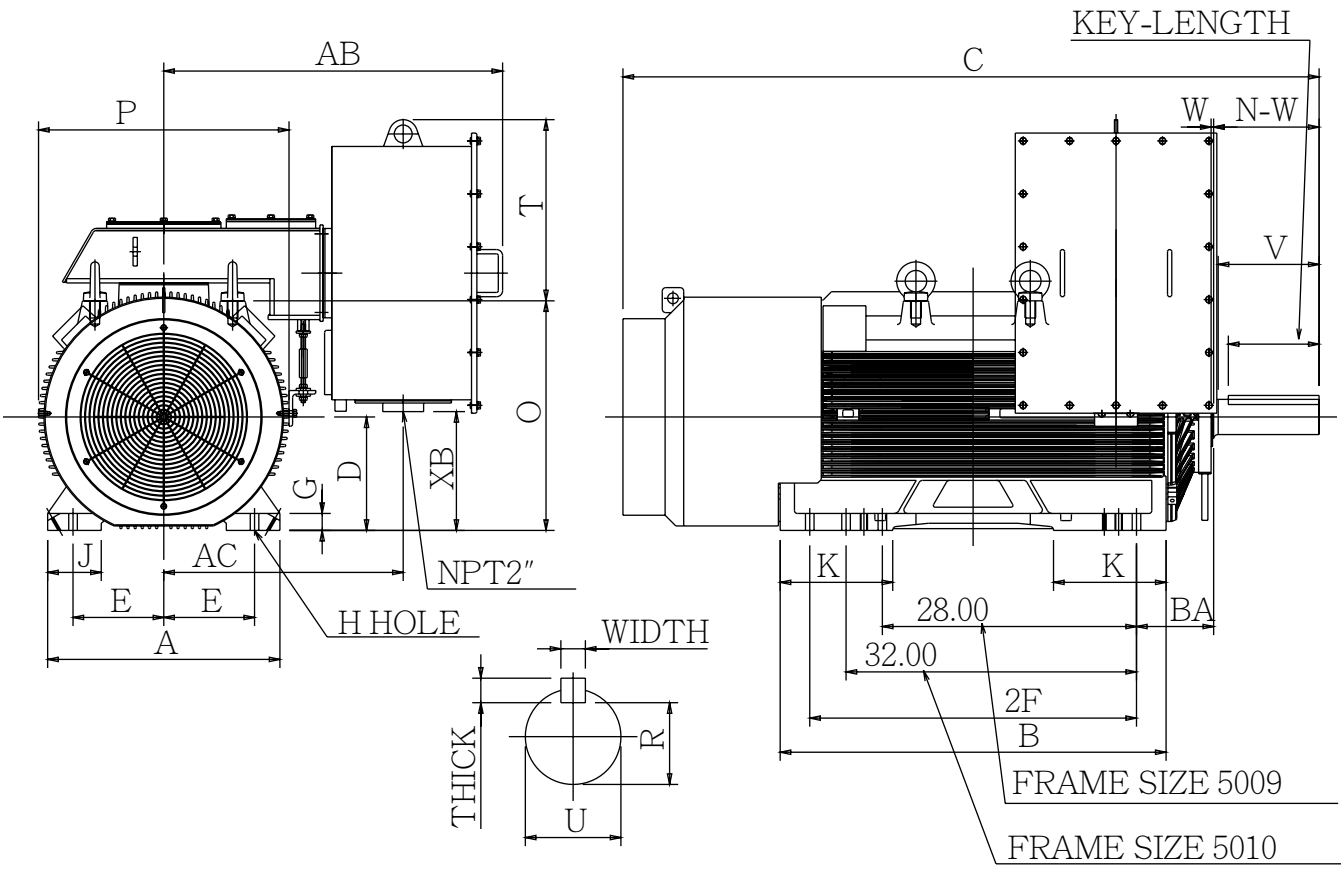
(Dimensions in inches)

FRAME SIZE (EG)	P	MOUNTING				A	B	C	D	G	J	K
		E	2F	H	BA							
5009B	4P-8P	10.00	28.00	0.94	8.50	25.60	34.65	68.83	12.50	1.85	5.90	10.24

FRAME SIZE (EG)	W	O	P	T	KEY			KEYSEAT	TERMINAL HOUSING		
					WIDTH	THICK	LENGTH	R	AB	AC	XB
5009B	0.48	25.30	27.60	19.96	1.000	1.000	10.00	3.309	37.33	26.40	13.09

FRAME SIZE (EG)	SHAFT EXTENSION			BEARINGS	
	N-W	U	V	DRIVE END	OPP. DRIVE END
5009B	11.62	3.875	11.12	6324C3	6320C3

NOTE: 1. DIMENSION D TOLERANCE: +0.00 INCH, -0.06 INCH
2. DIMENSION U TOLERANCE: +0.000 INCH, -0.001 INCH
3. DIMENSION R TOLERANCE: +0.000 INCH, -0.015 INCH
4. DIMENSION V IS THE LENGTH OF STRAIGHT PART OF SHAFT
5. FOR DIRECT FLEXIBLE COUPLING



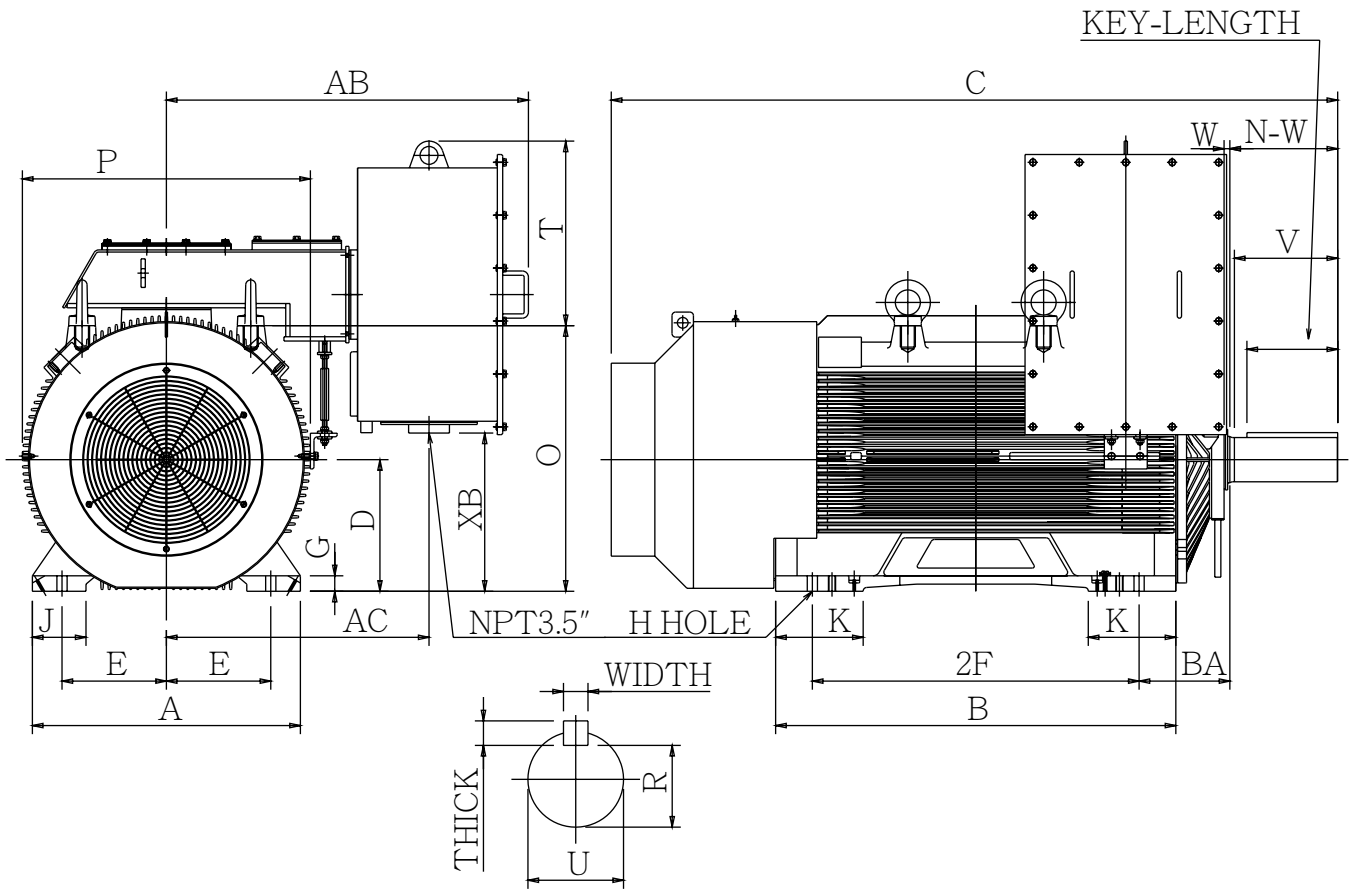
(Dimensions in inches)

FRAME SIZE (EG)	P	MOUNTING				A	B	C	D	G	J	K
		E	2F	H	BA							
5011B	4P-8P	10.00	36.00	0.94	8.50	25.60	42.52	76.70	12.50	1.85	5.90	12.40

FRAME SIZE (EG)	W	O	P	T	KEY			KEYSEAT	TERMINAL HOUSING		
					WIDTH	THICK	LENGTH	R	AB	AC	XB
5011B	0.48	25.30	27.60	19.96	1.000	1.000	10.00	3.309	37.33	26.40	13.09

FRAME SIZE (EG)	SHAFT EXTENSION			BEARINGS	
	N-W	U	V	DRIVE END	OPP. DRIVE END
5011B	11.62	3.875	11.12	6324C3	6320C3

NOTE: 1. DIMENSION D TOLERANCE: +0.00 INCH, -0.06 INCH
2. DIMENSION U TOLERANCE: +0.000 INCH, -0.001 INCH
3. DIMENSION R TOLERANCE: +0.000 INCH, -0.015 INCH
4. DIMENSION V IS THE LENGTH OF STRAIGHT PART OF SHAFT
5. FOR DIRECT FLEXIBLE COUPLING



(Dimensions in inches)

FRAME SIZE (EG)	P	MOUNTING				A	B	C	D	G	J	K
		E	2F	H	BA							
5810B	4P-8P	11.50	36.00	1.13	10.00	29.55	44.10	79.25	14.50	1.70	5.90	9.65

FRAME SIZE (EG)	W	O	P	T	KEY			KEYSEAT	TERMINAL HOUSING		
					WIDTH	THICK	LENGTH	R	AB	AC	XB
5810B	0.83	29.26	31.73	20.33	1.250	1.250	10.00	4.169	39.90	28.95	17.43

FRAME SIZE (EG)	SHAFT EXTENSION			BEARINGS	
	N-W	U	V	DRIVE END	OPP. DRIVE END
5810B	11.88	4.875	11.38	6326C3	6322C3

NOTE: 1. DIMENSION D TOLERANCE: +0.00 INCH, -0.06 INCH
2. DIMENSION U TOLERANCE: +0.000 INCH, -0.001 INCH
3. DIMENSION R TOLERANCE: +0.000 INCH, -0.015 INCH
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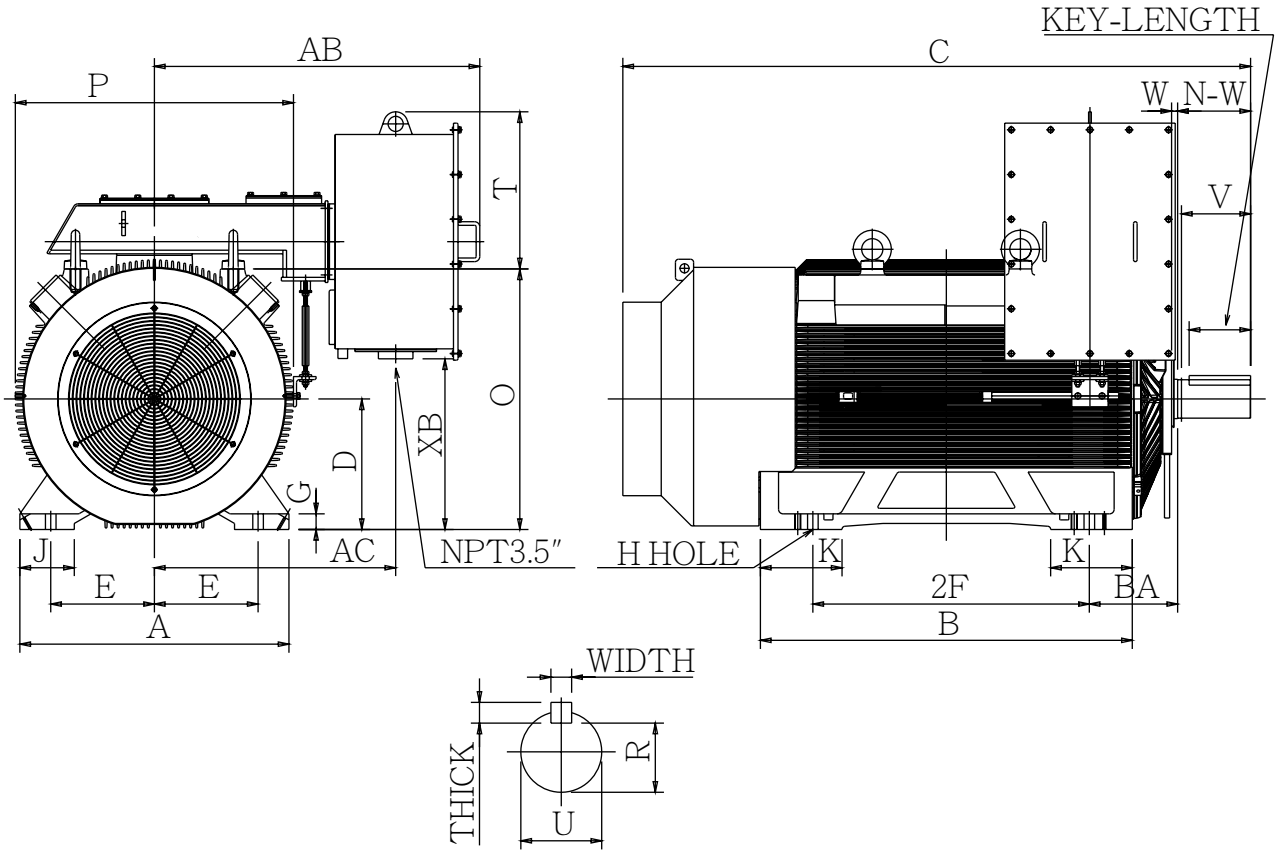

(Dimensions in inches)

FRAME SIZE (EG)	P	MOUNTING				A	B	C	D	G	J	K
		E	2F	H	BA							
6808B	4P-8P	13.50	36.00	1.38	11.50	35.00	48.45	81.74	17.00	2.00	7.10	10.63

FRAME SIZE (EG)	W	O	P	T	KEY			KEYSEAT	TERMINAL HOUSING		
					WIDTH	THICK	LENGTH	R	AB	AC	XB
6808B	0.79	33.93	36.22	20.46	1.250	1.250	8.00	4.296	42.37	31.40	22.22

FRAME SIZE (EG)	SHAFT EXTENSION			BEARINGS	
	N-W	U	V	DRIVE END	OPP. DRIVE END
6808B	9.50	5.00	9.00	6326C3	6322C3

NOTE: 1. DIMENSION D TOLERANCE: +0.00 INCH, -0.06 INCH
2. DIMENSION U TOLERANCE: +0.000 INCH, -0.001 INCH
3. DIMENSION R TOLERANCE: +0.000 INCH, -0.015 INCH
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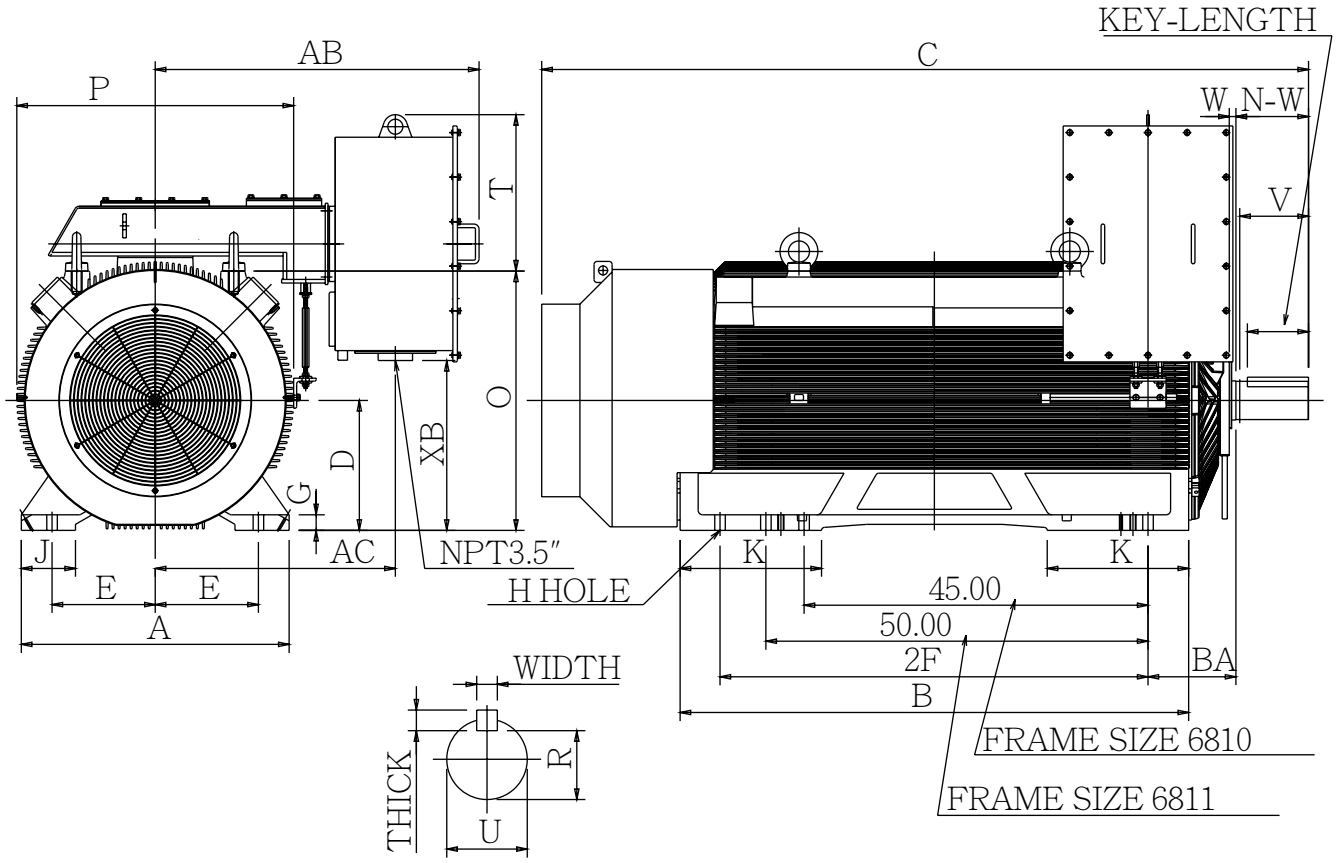

(Dimensions in inches)

FRAME SIZE (EG)	P	MOUNTING				A	B	C	D	G	J	K
		E	2F	H	BA							
6812B	4P-8P	13.50	56.00	1.38	11.50	35.00	66.54	100.33	17.00	2.00	7.10	18.50

FRAME SIZE (EG)	W	O	P	T	KEY			KEYSEAT	TERMINAL HOUSING		
					WIDTH	THICK	LENGTH	R	AB	AC	XB
6812B	0.87	33.93	36.22	20.46	1.250	1.250	8.00	4.296	42.37	31.40	22.22

FRAME SIZE (EG)	SHAFT EXTENSION			BEARINGS	
	N-W	U	V	DRIVE END	OPP. DRIVE END
6812B	9.50	5.00	9.00	6326C3	6322C3

NOTE: 1. DIMENSION D TOLERANCE: +0.00 INCH, -0.06 INCH
2. DIMENSION U TOLERANCE: +0.000 INCH, -0.001 INCH
3. DIMENSION R TOLERANCE: +0.000 INCH, -0.015 INCH
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