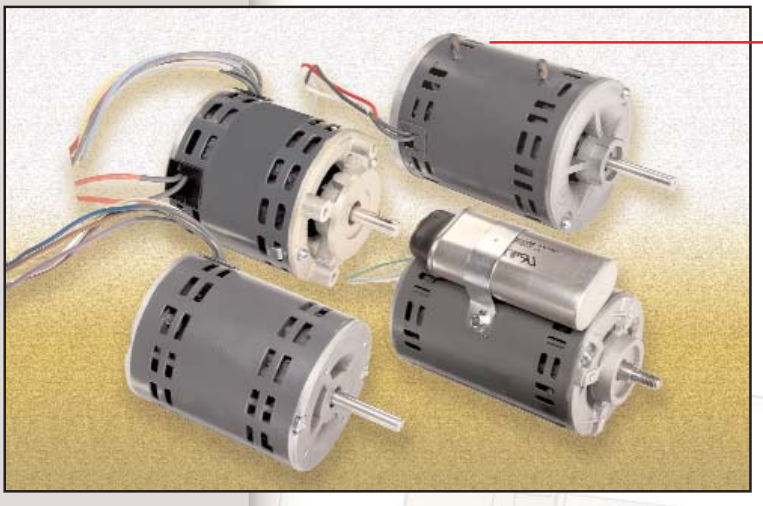


AC Motor Series

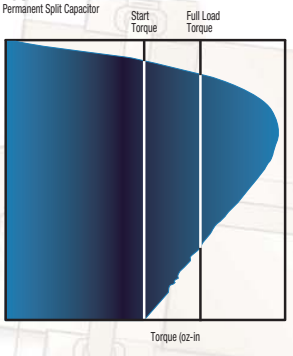
ElectroCraft AC Motor Series

The AC product offers a wide choice of electrical types (see performance tables) with standard or customized mounting arrangements. ElectroCraft motors are engineered for versatility. Select from a wide range of head, shell and mounting configurations, as well as speeds and electrical types. These features, combined with our ability to produce output shafts with a variety of flats, keyways, splines, tapers, threads or cross holes, fit a variety of custom applications. ElectroCraft Engineered Solutions has a proven record of performance in applications requiring precise speed and torque control. Premium quality materials are used to offer top performance, quiet running and long life. The AC product meets or exceeds standards for materials, performance and safety established by Underwriters Laboratories and Canadian Standards Association.

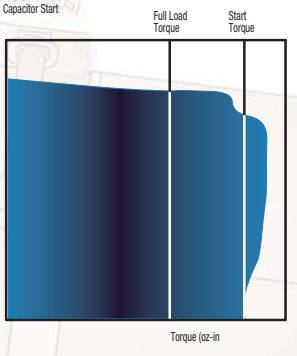
AC Motor Types

Motor Types	HP Rating	Full Load Speeds (@ 60Hz)	Starting Torque	Breakdown Torque	Starting Current	Typical Characteristics
Permanent Split Capacitor (Type KP)	1/50 to 1/3 1/50 to 1/3	3250 1625	Low	Moderate	Low	Very compact, easy to maintain. High efficiency, high power factor. Can operate at several speeds with simple control devices. *Advantages:* Improved starting torque, quieter operation than split phase and provides frequent start/stop capability essential in many applications. *Disadvantage:* Performance is usually less satisfactory when starting. Changing the capacitor value will affect both starting and running conditions, so that any improvements in starting will usually result in a decrease in running performance.
Reluctance Synchronous Split Capacitor (Type SKP)	1/50 to 1/6	1800	Low	Moderate	Low	Same as Type KP, but used where constant speed is essential.
Capacitor Start (Type KL)	1/80 to 1/6 1/50 to 1/6	3450 1725	High	High	Moderate	Suitable for constant speed under varying load, high torques, high overload capacity. With the Type KP motor, a capacitor is added in "series" with the start winding during the start mode to increase starting torque and/or reduce starting current. The start winding and capacitor will be disconnected when the motor has reached approximately 70% of running speed. Since the "run" winding alone has no starting capability, both starting and running windings are energized while starting.
Relunctance Synchronous Capacitor Start (Type SKL)	1/30 to 1/3 1/150 to 1/6	3600 1800	High	High	Moderate	Same as Type KL, but used where constant speed is essential.
Polyphase (or 3-Phase) (Type L)	1/30 to 1/3 1/75 to 1/3	3420 1710	High	High	Moderate	Generally suited to same applications as capacitor start motors if polyphase power is available. Reaches operating speed smoothly and quickly. Very efficient design.

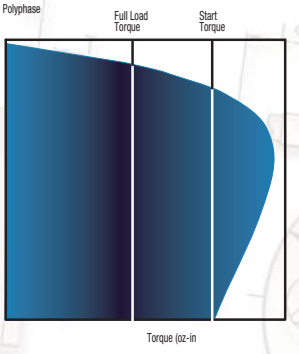
Type KP
Permanent Split Capacitor

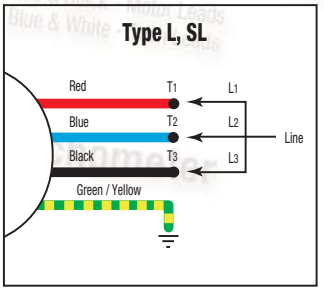


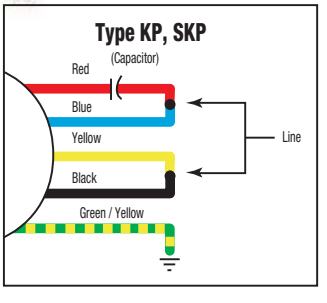
Type KL
Capacitor Start

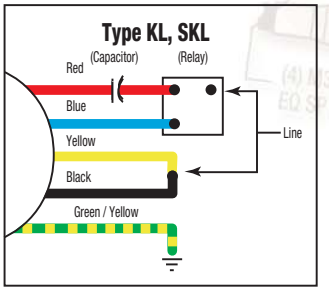


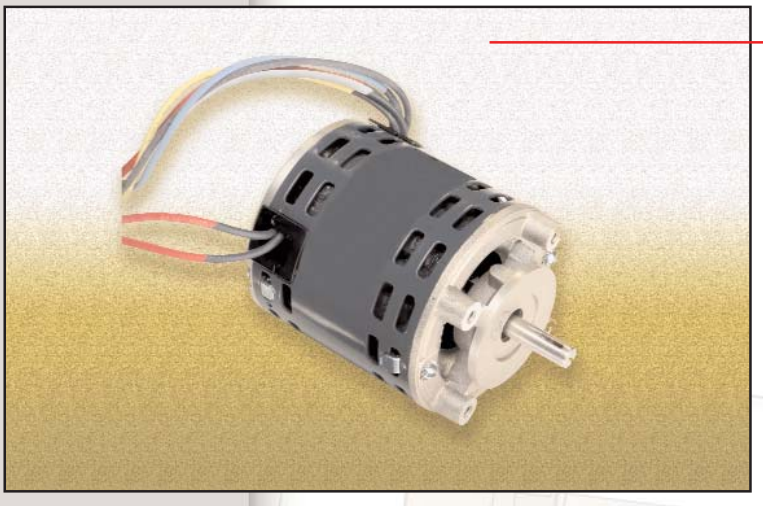
Type L
Polyphase











AC26 Motor Series

Features and Benefits

- *Die cast aluminum rotor end rings and bars with integral cooling fans. Aluminum alloy selected to match performance to job requirements. Skewed rotor bars promote uniform torque, quiet running.*
- *Annealed laminations in stator and rotor keep efficiency high for cooler operation.*
- *Stator windings scientifically designed and computer matched to customer's requirements to assume maximum energy efficiency.*
- *Rotors are dynamically balanced to assure low vibration.*
- *Die cast aluminum end caps with precision machined fits assure uniform air gap, firm bearing support for quiet running, long life.*
- *Double-shielded or sealed ball bearings are greased for life with rust inhibiting grease; no periodic service needed.*
- *Durable Class B or Class F insulation system to meet UL and CSA standards.*
- *Thermal protector available to guard against accidental stalls or jams and prevent burnout.*

Typical Applications

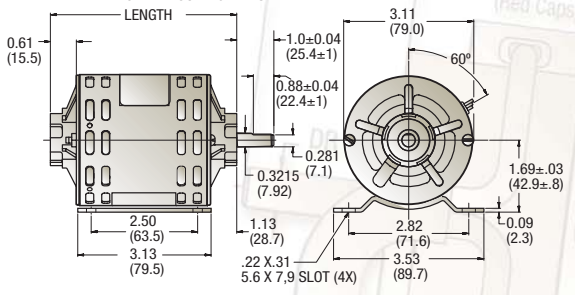
- Valve Actuators
- Blowers
- Pumps
- Office Equipment/Business Machines
- Medical Equipment
- Hoists
- Food Products Machinery

Options

Electrical: Class B insulation - UL and CSA Listed • Class F insulation - UL and CSA Listed • Choice of lead material, insulation thickness, gauge and length • Choice of lead combinations - tinned copper, spade, pin or lug terminals, plugs • Cord sets with or without plug ends or inline switches • Oil immersion insulation system • Relay and capacitor supplied (where necessary) • 50/60 Hz combined rating • Multiple voltage ratings.

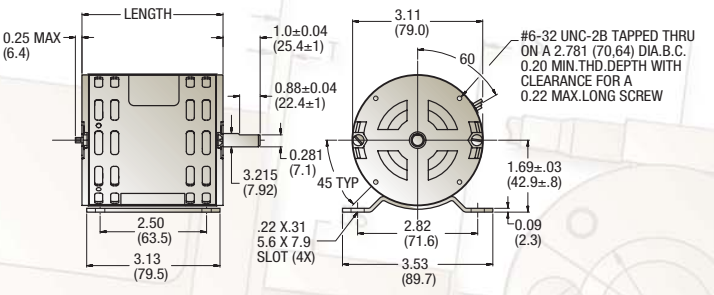
Mechanical: Capacitor or relay cover shell mounted • Double shaft extensions • Special shaft configurations: Gear involutes, splines, external and internal threads, keyways, multiple flats, ring grooves, cross holes, screwdriver slots, multiple diameters, tapers • Totally enclosed configurations • Weld studs • Choice of shaft material.

RESILIENT HUB
AVAILABLE WITH OR WITHOUT RIGID BASE



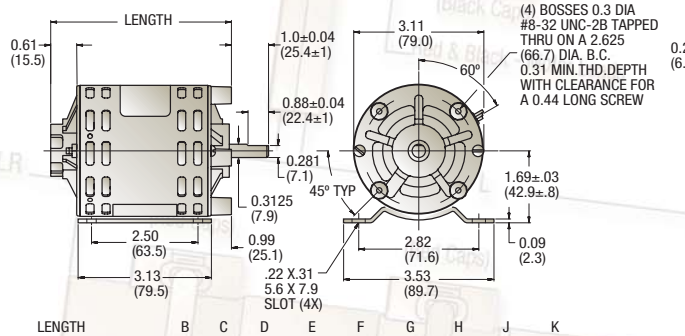
LENGTH		B	C	D	E	F	G	H	J	K
INCHES	±0.05	3.62	3.87	4.12	4.37	4.62	4.87	5.12	5.37	5.62
MM	±1.30	91.9	98.3	104.6	111.0	117.3	123.7	130.0	136.4	142.7

FLAT HEAD WITH 2.781 (70,64) DIA B.C.
AVAILABLE WITH OR WITHOUT RIGID BASE



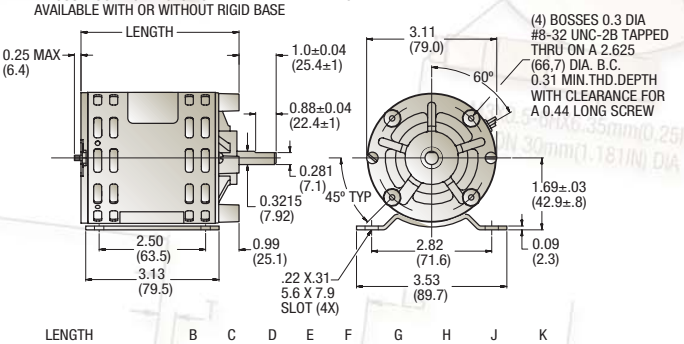
LENGTH		B	C	D	E	F	G	H	J	K
INCHES	±0.05	2.56	2.81	3.06	3.31	3.56	3.81	4.06	4.31	4.56
MM	±1.30	65.0	71.4	77.7	84.1	90.4	96.8	130.1	109.5	115.8

4 BOSS MOUNT ON 2.625 BC
AVAILABLE WITH OR WITHOUT RIGID BASE



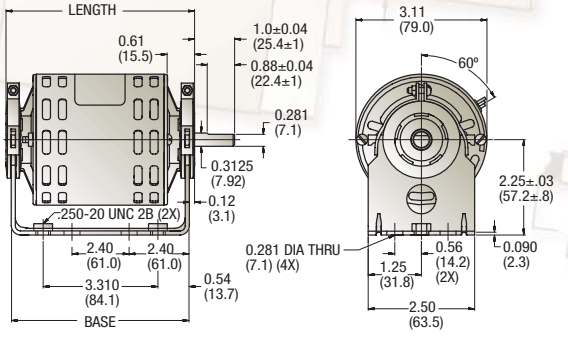
LENGTH		B	C	D	E	F	G	H	J	K
INCHES	±0.05	3.48	3.73	3.98	4.23	4.48	4.73	4.98	5.23	5.48
MM	±1.30	88.4	94.8	101.1	107.5	113.8	120.2	126.5	132.9	139.2

4 BOSS MOUNT ON 2.625 BC WITH FLAT REAR END CAP
AVAILABLE WITH OR WITHOUT RIGID BASE



LENGTH		B	C	D	E	F	G	H	J	K
INCHES	±0.05	2.95	3.20	3.45	3.70	3.95	4.20	4.45	4.70	4.95
MM	±1.30	75.0	81.3	87.7	94.0	100.4	106.7	113.1	119.4	125.8

RESILENT BASE
AVAILABLE WITH OR WITHOUT RESILENT BASE
AND/OR CUSHION RINGS



LENGTH			D*	E*	F	G	H	J	K
INCHES	LENGTH	±0.05	4.12	4.37	4.62	4.87	5.12	5.37	5.62
MM		±1.30	104.6	111.0	117.3	123.7	130.0	136.4	142.7
INCHES	BASE	±0.05	3.88	4.13	4.38	4.63	4.88	5.13	5.38
MM		±1.30	98.6	104.9	111.3	117.6	124.0	130.3	136.7

* 0.250-20 UNC-2B NOT AVAILABLE

26 Frame AC Motor Series Performance Specifications

Motor Types	Poles	Performance Designator	Length	Voltage	Frequency	Rated Load					Maximum Torque	Starting		Capacitor	
						HP Rating	Amps	Watts	Speed	Torque		Amps	Torque	Mfd.	Vac
KP	2	05	C	115	60	1/50	0.4	39	3385	6.0	13.0	0.8	4.6	3.0	236
KP	2	06	C	115	60	1/40	0.5	44	3300	7.7	15.0	0.9	4.2	3.0	236
KP	2	07	D	115	60	1/30	0.5	51	3370	10.0	18.0	1.2	5.5	3.0	236
KP	2	08	E	115	60	1/25	0.5	56	3380	12.0	23.0	1.4	6.7	4.0	236
KP	2	09	E	115	60	1/20	0.6	70	3370	15.1	27.0	1.7	8.2	5.0	236
KP	2	10	F	115	60	1/15	0.8	87	3390	20.0	35.1	2.5	10.3	5.0	218
KP	2	11	G	115	60	1/12	1.0	107	3390	25.1	49.0	2.9	13.6	6.0	236
KP	2	12	H	115	60	1/10	1.3	130	3360	30.3	60.0	3.7	17.6	6.0	236
KP	4	04	D	115	60	1/60	0.3	35	1620	10.5	19.0	0.6	10.0	3.0	236
KP	4	05	D	115	60	1/50	0.4	46	1630	12.5	24.0	0.6	17.4	4.0	236
KP	4	06	E	115	60	1/40	0.5	46	1625	15.4	29.0	0.9	14.0	4.0	236
KP	4	07	F	115	60	1/30	0.5	50	1670	20.7	37.9	1.1	18.8	4.0	236
KP	4	08	G	115	60	1/25	0.6	67	1625	25.1	47.0	1.3	24.0	5.0	236
KP	4	09	H	115	60	1/20	0.8	83	1630	31.2	60.0	1.7	30.0	6.0	236
KP	4	10	K	115	60	1/15	1.0	88	1660	40.0	78.0	2.5	31.2	6.0	236
KP	2	05	C	220	50	1/50	0.3	52	2700	7.5	12.0	0.4	4.0	3.0	220
KP	2	06	C	220	50	1/40	0.3	65	2555	9.8	12.8	0.5	3.5	3.0	220
KP	2	07	D	220	50	1/30	0.6	65	2710	12.4	18.0	0.6	4.8	3.0	220
KP	2	08	E	220	50	1/25	0.4	67	2765	14.7	24.0	0.8	6.1	4.0	220
KP	2	09	E	220	50	1/20	0.5	89	2720	18.8	27.0	0.9	7.0	5.0	220
KP	2	10	F	220	50	1/15	0.4	108	2740	25.0	38.0	1.3	9.0	5.0	220
KP	2	11	G	220	50	1/12	0.5	121	2780	30.1	51.0	1.5	12.0	1.5	440
KP	2	12	H	220	50	1/10	0.7	161	2785	37.0	62.0	1.9	15.0	1.5	440
KP	4	04	D	220	50	1/60	0.2	42	1250	13.2	18.0	0.3	8.6	3.0	370
KP	4	05	D	220	50	1/50	0.3	55	1230	16.1	21.5	0.4	10.0	3.0	370
KP	4	06	E	220	50	1/40	0.3	58	1260	19.8	28.0	0.5	12.0	3.0	370
KP	4	07	F	220	50	1/30	0.4	72	1255	26.1	35.0	0.6	16.0	4.0	370
KP	4	08	G	220	50	1/25	0.5	82	1270	31.4	47.0	0.7	20.0	5.0	440
KP	4	09	H	220	50	1/20	0.6	99	1280	37.5	57.0	0.9	25.0	1.5	370
KP	4	10	K	220	50	1/15	0.8	124	1275	50.0	74.0	1.2	29.0	1.5	370

All torque values are in ounce-inches. KP=Permanent Split Capacitor; KL=Capacitor Start; L=Polyphase. Other motor types not shown here: SKP=Synchronous Permanent Split Capacitor; SKL=Synchronous Capacitor Start

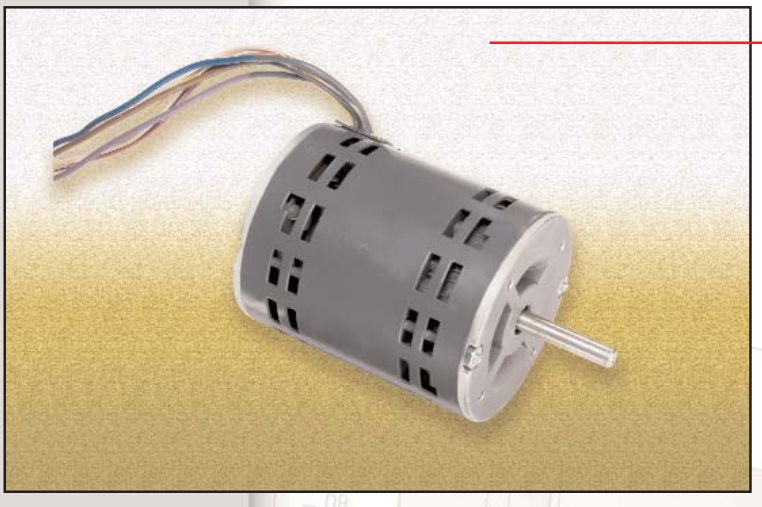
These 3.11 inch diameter motors are the smallest ElectroCraft Engineered Solutions offers and are designed for continuous duty in a 40°C ambient temperature. At nominal 1650 or 3450 rpm, ratings range from 1/150 to 1/10 HP (contact your area sales representative for intermittent ratings, higher ambient, or TENV construction). Motor specifications based on theoretical values for reference only.

26 Frame AC Motor Series Performance Specifications

Motor Types	Poles	Performance Designator	Length	Voltage	Frequency	Rated Load					Maximum Torque	Starting		Capacitor	
						HP Rating	Amps	Watts	Speed	Torque		Amps	Torque	Mfd.	Vac
KL	2	06	D	115	60	1/40	0.8	59	3425	7.4	15.0	2.5	19.0	36.0	110
KL	2	07	E	115	60	1/30	0.8	61	3435	9.7	21.0	2.9	25.0	43.0	110
KL	2	08	E	115	60	1/25	1.0	80	3425	11.9	24.0	3.5	30.0	43.0	110
KL	4	05	E	115	60	1/50	0.6	42	1695	11.9	19.5	2.0	24.0	43.0	125
KL	4	06	F	115	60	1/40	0.6	48	1685	15.0	21.5	2.2	30.0	47.0	125
KL	4	07	G	115	60	1/30	0.8	60	1690	19.9	29.5	2.6	41.0	53.0	125
KL	4	08	H	115	60	1/25	0.9	68	1695	23.8	37.5	3.0	51.0	64.0	125
KL	4	09	J	115	60	1/20	1.1	87	1685	29.9	43.5	3.6	61.0	72.0	125
KL	2	06	D	220	50	1/40	0.5	83	2800	8.9	16.0	1.8	28.0	21.0	165
KL	2	07	E	220	50	1/30	0.5	78	2830	11.7	23.0	2.0	39.0	21.0	165
KL	2	08	E	220	50	1/25	0.7	109	2810	14.3	25.0	2.1	36.0	21.0	165
KL	2	09	F	220	50	1/20	0.7	107	2830	17.8	35.0	2.4	49.0	21.0	165
KL	2	10	G	220	50	1/15	0.9	143	2825	23.4	41.0	2.7	53.0	21.0	165
KL	2	11	H	220	50	1/12	1.1	161	2830	29.6	55.0	3.2	61.0	21.0	165
KL	2	12	J	220	50	1/10	1.2	185	2820	35.6	60.0	3.4	75.0	30.0	220
KL	4	05	E	220	50	1/50	0.4	64	1345	15.0	20.0	0.9	16.0	43.0	110
KL	4	06	F	220	50	1/40	0.4	68	1345	18.5	23.0	1.0	19.0	47.0	110
KL	4	07	G	220	50	1/30	0.6	85	1350	24.0	32.0	1.3	30.0	53.0	110
KL	4	08	H	220	50	1/25	0.6	92	1370	29.0	42.0	1.7	62.0	21.0	220
KL	4	09	J	220	50	1/20	0.8	122	1350	36.6	47.0	1.8	64.0	21.0	220
L	4	06	E	230	60	1/40	0.2	34	1715	15.0	45.6	0.5	35.5	-	-
L	4	07	G	230	60	1/30	0.3	46	1735	20.0	84.6	1.0	72.2	-	-
L	4	12	K	230	60	1/10	0.4	120	1650	60.8	140.0	0.9	120.0	-	-
L	4	13	L	230	60	1/8	0.5	142	1670	74.0	170.0	1.7	137.0	-	-

All torque values are in ounce-inches. KP=Permanent Split Capacitor; KL=Capacitor Start; L=Polyphase. Other motor types not shown here: SKP=Synchronous Permanent Split Capacitor; SKL=Synchronous Capacitor Start

These 3.11 inch diameter motors are the smallest ElectroCraft Engineered Solutions offers and are designed for continuous duty in a 40°C ambient temperature. At nominal 1650 or 3450 rpm, ratings range from 1/150 to 1/10 HP (contact your area sales representative for intermittent ratings, higher ambient, or TENV construction). Motor specifications based on theoretical values for reference only.



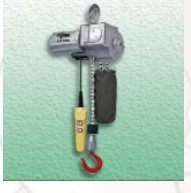
AC29 Motor Series

Features and Benefits

- *Die cast aluminum rotor end rings and bars with integral cooling fans. Aluminum alloy selected to match performance to job requirements. Skewed rotor bars promote uniform torque, quiet running.*
- *Annealed laminations in stator and rotor keep efficiency high for cooler operation.*
- *Stator windings scientifically designed and computer matched to customer's requirements to assume maximum energy efficiency.*
- *Rotors are dynamically balanced to assure low vibration.*
- *Die cast aluminum end caps with precision machined fits assure uniform air gap, firm bearing support for quiet running, long life.*
- *Double-shielded or sealed ball bearings are greased for life with rust inhibiting grease; no periodic service needed.*
- *Durable Class B or Class F insulation system to meet UL and CSA standards.*
- *Thermal protector available to guard against accidental stalls or jams and prevent burnout.*

Typical Applications

- Valve Actuators
- Blowers
- Pumps
- Office Equipment/Business Machines
- Medical Equipment
- Hoists
- Food Products Machinery

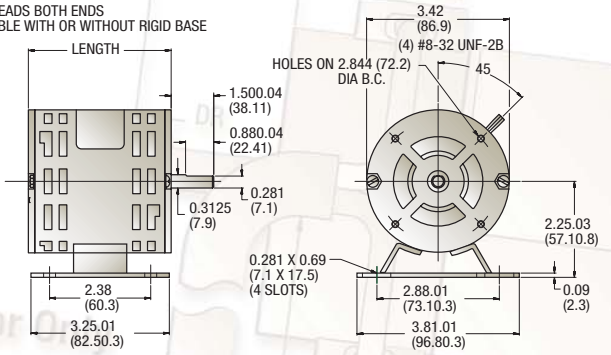


Options

Electrical: Class B insulation - UL and CSA Listed • Class F insulation - UL and CSA Listed • Choice of lead material, insulation thickness, gauge and length • Choice of lead combinations - tinned copper, spade, pin or lug terminals, plugs • Cord sets with or without plug ends or inline switches • Oil immersion insulation system • Relay and capacitor supplied (where necessary) • 50/60 Hz combined rating • Multiple voltage ratings.

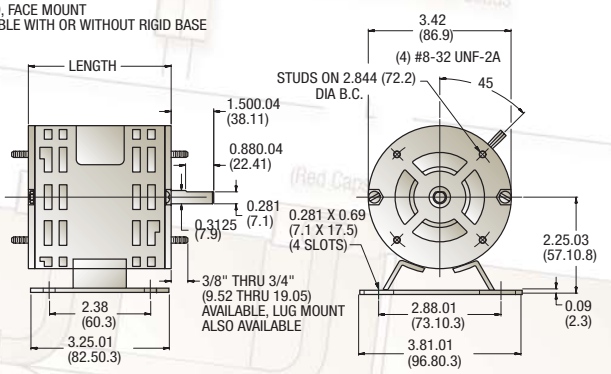
Mechanical: Capacitor or relay cover shell mounted • Double shaft extensions • Special shaft configurations: Gear involutes, splines, external and internal threads, keyways, multiple flats, ring grooves, cross holes, screwdriver slots, multiple diameters, tapers • Totally enclosed configurations • Weld studs • Choice of shaft material.

FLAT HEADS BOTH ENDS
AVAILABLE WITH OR WITHOUT RIGID BASE



LENGTH		C	D	E	F	G	H	J	K	L	M	N	P
INCHES	0.05	2.853	3.103	3.353	3.603	3.853	4.103	4.353	4.603	4.853	5.103	5.353	5.603
MM	1.30	72.5	78.8	85.2	91.5	97.9	104.2	110.6	116.9	123.3	129.6	136.0	142.3

4 STUD, FACE MOUNT
AVAILABLE WITH OR WITHOUT RIGID BASE



LENGTH		C	D	E	F	G	H	J	K	L	M	N	P
INCHES	0.05	2.853	3.103	3.353	3.603	3.853	4.103	4.353	4.603	4.853	5.103	5.353	5.603
MM	1.30	72.5	78.8	85.2	91.5	97.9	104.2	110.6	116.9	123.3	129.6	136.0	142.3

29 Frame AC Motor Series Performance Specifications

Motor Types	Poles	Performance Designator	Length	Voltage	Frequency	Rated Load					Maximum Torque	Starting		Capacitor	
						HP Rating	Amps	Watts	Speed	Torque		Amps	Torque	Mfd.	Vac
KP	2	09	E	115	60	1/20	0.9	92	3400	15.0	30	2.0	11.0	5.0	330
KP	2	10	F	115	60	1/15	1.0	111	3440	20.0	35	2.2	12.0	6.0	330
KP	2	12	G	115	60	1/10	1.3	143	3430	29.0	56	3.5	17.0	7.5	330
KP	2	13	H	115	60	1/8	1.8	173	3445	37.0	75	5.2	18.0	7.5	330
KP	2	14	J	115	60	1/6	1.9	215	3450	49.0	104	6.5	29.0	10.0	330
KP	2	15	K	115	60	1/5	2.1	236	3435	60.0	115	7.2	30.0	15.0	330
KP	2	16	L	115	60	1/4	2.3	266	3420	74.0	147	9.0	36.0	15.0	330
KP	4	08	F	115	60	1/25	0.9	82	1630	24.0	40	1.5	26.0	4.0	330
KP	4	09	H	115	60	1/20	1.0	90	1670	29.0	72	2.3	32.0	6.0	330
KP	4	10	J	115	60	1/15	1.3	117	1680	39.0	79	2.7	32.0	7.5	330
KP	4	11	K	115	60	1/12	1.3	127	1675	49.0	100	3.1	44.0	10.0	330
KP	4	12	M	115	60	1/10	1.3	133	1650	60.0	121	3.1	61.0	12.0	330
KP	4	13	P	115	60	1/8	1.4	157	1655	76.0	156	3.9	71.0	15.0	330
KP	2	09	E	220	50	1/20	0.8	87	2730	17.8	27	1.4	13.0	7.0	250
KP	2	10	F	220	50	1/15	0.8	96	2765	23.8	38	1.8	16.0	9.0	250
KP	2	12	G	220	50	1/10	1.2	128	2765	35.2	56	2.8	20.0	9.0	250
KP	2	13	H	220	50	1/8	1.5	166	2810	43.8	80	4.1	26.0	10.0	250
KP	2	14	J	220	50	1/6	1.8	204	2800	58.8	106	5.2	35.0	15.0	250
KP	2	15	K	220	50	1/5	2.2	235	2805	70.8	140	6.9	40.0	17.5	250
KP	2	16	M	220	50	1/4	2.4	270	2790	90.0	154	7.3	47.0	20.0	280
KP	4	08	F	220	50	1/25	0.5	55	1220	28.2	36	0.8	24.0	6.0	220
KP	4	09	H	220	50	1/20	0.6	78	1325	34.8	59	1.2	36.0	8.0	220
KP	4	10	J	220	50	1/15	0.8	93	1315	46.8	76	1.6	42.0	10.0	220
KP	4	11	K	220	50	1/12	1.0	90	1310	58.8	93	1.9	52.0	12.0	220
KP	4	12	M	220	50	1/10	1.1	120	1330	72.0	122	2.5	68.0	12.5	220
KP	4	13	P	220	50	1/8	1.5	145	1290	105.6	151	3.1	79.0	15.0	220

All torque values are in ounce-inches. KP=Permanent Split Capacitor; KL=Capacitor Start; L=Polyphase. Other motor types not shown here: SKP=Synchronous Permanent Split Capacitor; SKL=Synchronous Capacitor Start

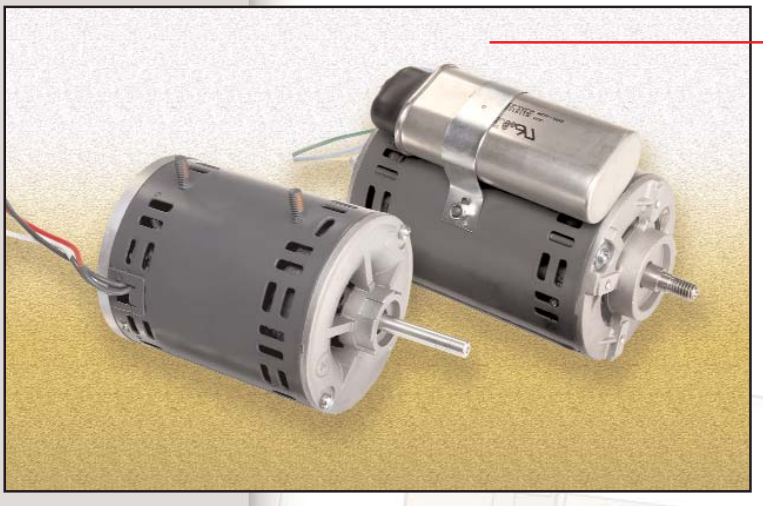
These 3.42 inch diameter motors are designed for continuous duty in a 40°C ambient temperature. At nominal 1650 or 3450 rpm, ratings range from 1/60 to 1/4 HP (contact your area sales representative for intermittent ratings, higher ambient, or TENV construction). Motor specifications based on theoretical values for reference only.

29 Frame AC Motor Series Performance Specifications

						Rated Load						Starting		Capacitor	
Motor Types	Poles	Performance Designator	Length	Voltage	Frequency	HP Rating	Amps	Watts	Speed	Torque	Maximum Torque	Amps	Torque	Mfd.	Vac
KL	2	08	F	115	60	1/25	1.1	80	3440	12.0	30	3.1	24.0	36.0	110
KL	2	10	G	115	60	1/15	1.7	124	3450	20.0	49	5.0	40.0	36.0	110
KL	2	11	H	115	60	1/12	1.8	126	3445	25.0	61	5.6	49.0	43.0	110
KL	2	13	K	115	60	1/8	2.3	172	3460	37.0	101	8.6	74.0	53.0	110
KL	2	14	M	115	60	1/6	2.8	218	3490	50.0	127	11.0	98.0	53.0	110
KL	2	15	N	115	60	1/5	3.0	247	3465	60.0	141	11.7	117.0	75.0	110
KL	2	16	P	115	60	1/4	3.6	296	3460	74.0	168	13.7	126.0	75.0	110
KL	4	06	G	115	60	1/40	1.4	93	1670	15.0	40	2.4	33.0	36.0	110
KL	4	07	H	115	60	1/30	1.4	91	1680	20.0	52	2.7	42.0	36.0	110
KL	4	08	J	115	60	1/25	1.5	98	1680	24.0	59	3.0	52.0	36.0	110
KL	4	09	K	115	60	1/20	1.8	115	1685	31.0	76	3.6	66.0	43.0	110
KL	4	11	M	115	60	1/12	2.1	149	1675	51.0	98	4.7	108.0	43.0	110
KL	2	08	F	220	50	1/25	1.1	81	2810	14.4	29	2.8	29.0	36.0	120
KL	2	10	G	220	50	1/15	1.5	121	2795	24.0	42	3.6	42.0	36.0	120
KL	2	11	H	220	50	1/12	1.5	128	2790	30.0	50	4.0	42.0	36.0	120
KL	2	13	K	220	50	1/8	2.0	175	2800	44.4	76	6.0	70.0	36.0	120
KL	2	14	M	220	50	1/6	2.5	216	2795	60.0	103	7.6	87.0	43.0	120
KL	2	15	N	220	50	1/5	2.7	255	2750	72.0	106	8.0	105.0	47.0	120
KL	2	16	P	220	50	1/4	3.2	295	2755	87.6	134	9.6	122.0	53.0	120
KL	4	06	G	220	50	1/40	1.0	78	1310	18.6	29	2.2	52.0	36.0	120
KL	4	07	H	220	50	1/30	1.2	93	1330	24.0	40	2.7	62.0	36.0	120
KL	4	08	J	220	50	1/25	1.2	90	1330	29.4	47	2.7	69.0	36.0	120
KL	4	09	K	220	50	1/20	1.7	120	1340	37.2	65	3.4	83.0	36.0	120
KL	4	11	M	220	50	1/12	1.7	145	1260	61.0	73	3.4	101.0	36.0	120
L	2	12	G	230	60	1/10	0.4	111	3420	29.0	110	2.2	116.0	-	-
L	2	13	H	230	60	1/8	0.5	131	3420	37.0	146	2.9	160.0	-	-
L	2	14	J	230	60	1/6	0.6	174	3420	49.0	191	3.8	200.0	-	-
L	2	15	K	230	60	1/5	0.8	204	3420	59.0	258	4.9	290.0	-	-
L	2	16	L	230	60	1/4	0.9	250	3420	74.0	314	5.9	356.0	-	-
L	2	17	M	230	60	1/3	1.3	340	3420	98.0	416	8.0	475.0	-	-
L	4	08	G	230	60	1/25	0.5	81	1710	23.5	164	1.5	190.0	-	-
L	4	09	H	230	60	1/20	0.6	89	1710	30.0	197	1.8	227.0	-	-
L	4	10	J	230	60	1/15	0.8	114	1710	39.0	272	2.4	312.0	-	-
L	4	11	K	230	60	1/12	0.9	132	1705	49.0	322	2.8	368.0	-	-
L	4	12	M	230	60	1/10	0.9	142	1705	59.0	347	3.1	395.0	-	-
L	4	13	P	230	60	1/8	1.1	173	1700	73.0	445	3.8	510.0	-	-

All torque values are in ounce-inches. KP=Permanent Split Capacitor; KL=Capacitor Start; L=Polyphase. Other motor types not shown here: SKP=Synchronous Permanent Split Capacitor; SKL=Synchronous Capacitor Start

These 3.42 inch diameter motors are designed for continuous duty in a 40°C ambient temperature. At nominal 1650 or 3450 rpm, ratings range from 1/60 to 1/4 HP (contact your area sales representative for intermittent ratings, higher ambient, or TENV construction). Motor specifications based on theoretical values for reference only.



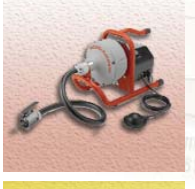
AC33 Motor Series

Features and Benefits

- *Die cast aluminum rotor end rings and bars with integral cooling fans. Aluminum alloy selected to match performance to job requirements. Skewed rotor bars promote uniform torque, quiet running.*
- *Annealed laminations in stator and rotor keep efficiency high for cooler operation.*
- *Stator windings scientifically designed and computer matched to customer's requirements to assume maximum energy efficiency.*
- *Rotors are dynamically balanced to assure low vibration.*
- *Die cast aluminum end caps with precision machined fits assure uniform air gap, firm bearing support for quiet running, long life.*
- *Double-shielded or sealed ball bearings are greased for life with rust inhibiting grease; no periodic service needed.*
- *Durable Class B or Class F insulation system to meet UL and CSA standards.*
- *Thermal protector available to guard against accidental stalls or jams and prevent burnout.*

Typical Applications

- Valve Actuators
- Blowers
- Pumps
- Office Equipment/Business Machines
- Medical Equipment
- Hoists
- Food Products Machinery

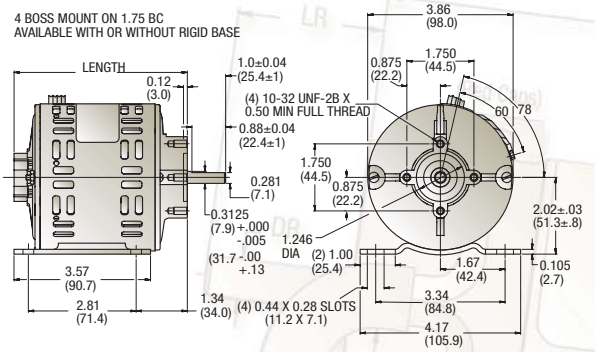


Options

Electrical: Class B insulation - UL and CSA Listed • Class F insulation - UL and CSA Listed • Choice of lead material, insulation thickness, gauge and length • Choice of lead combinations - tinned copper, spade, pin or lug terminals, plugs • Cord sets with or without plug ends or inline switches • Oil immersion insulation system • Relay and capacitor supplied (where necessary) • 50/60 Hz combined rating • Multiple voltage ratings.

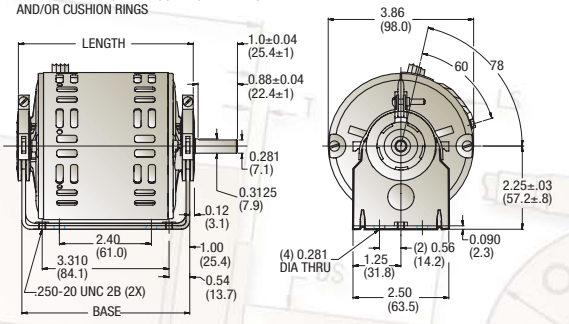
Mechanical: Capacitor or relay cover shell mounted • Double shaft extensions • Special shaft configurations: Gear involutes, splines, external and internal threads, keyways, multiple flats, ring grooves, cross holes, screwdriver slots, multiple diameters, tapers • Totally enclosed or totally enclosed fan cooled configurations • Weld studs • Choice of shaft material.

4 BOSS MOUNT ON 1.75 BC
AVAILABLE WITH OR WITHOUT RIGID BASE



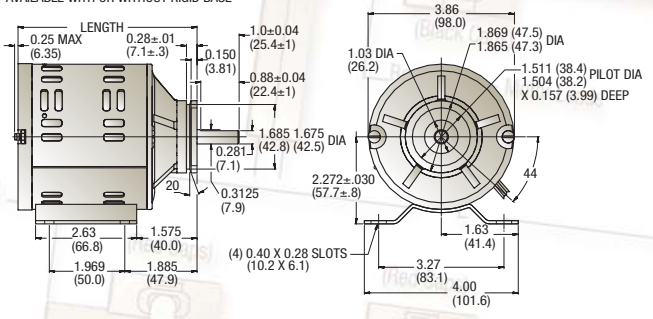
LENGTH		E	F	G	H	J	K	L	M	N	P
INCHES	±0.05	4.49	4.74	4.99	5.24	5.49	5.74	5.99	6.24	6.49	6.74
MM	±1.30	114.0	120.4	126.7	133.1	139.4	145.8	152.1	158.5	164.8	171.2

RESILIENT BASE
AVAILABLE WITH OR WITHOUT RESILIENT BASE
AND/OR CUSHION RINGS



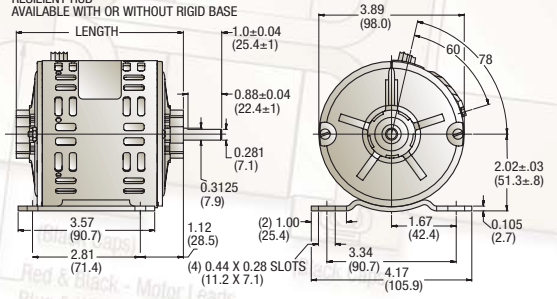
LENGTH		E	F	G	H	J	K	L	M	N	P
INCHES	LENGTH	±0.05	4.30	4.55	4.80	5.05	5.30	5.55	5.80	6.05	6.30	6.55
MM		±1.30	109.2	115.6	121.9	128.3	134.6	141.0	147.3	153.7	160.0	166.4
INCHES	BASE	±0.05	4.04	4.29	4.54	4.79	5.04	5.29	5.54	5.79	6.04	6.29
MM		±1.30	102.6	109.0	115.3	121.7	128.0	134.4	140.7	147.1	153.4	159.8

PUMP MOUNT
AVAILABLE WITH OR WITHOUT RIGID BASE



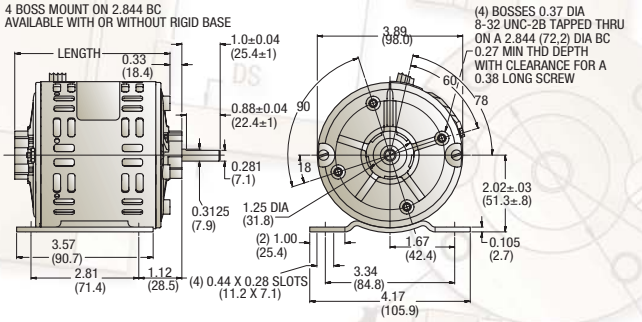
LENGTH		E	F	G	H	J	K	L	M	N	P
INCHES	±0.05	4.71	4.96	5.21	5.46	5.71	5.96	6.21	6.46	6.71	6.96
MM	±1.30	119.6	126.0	132.3	138.7	145.0	151.4	157.7	164.1	170.4	176.8

RESILIENT HUB
AVAILABLE WITH OR WITHOUT RIGID BASE



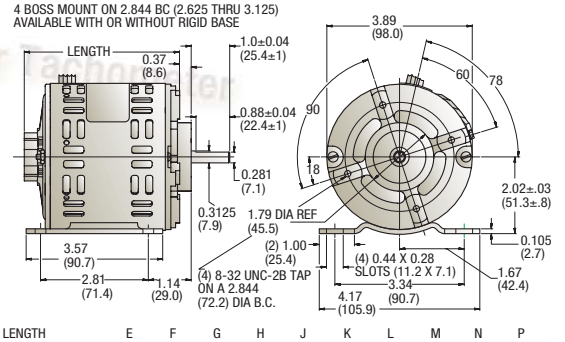
LENGTH		E	F	G	H	J	K	L	M	N	P
INCHES	±0.05	4.30	4.55	4.80	5.05	5.30	5.55	5.80	6.05	6.30	6.55
MM	±1.30	109.2	115.6	121.9	128.1	134.6	141.0	147.3	153.7	160.0	166.4

4 BOSS MOUNT ON 2.844 BC
AVAILABLE WITH OR WITHOUT RIGID BASE



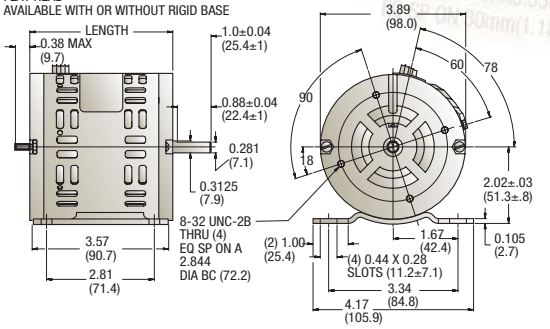
LENGTH		E	F	G	H	J	K	L	M	N	P
INCHES	±0.05	4.01	4.26	4.51	4.76	5.01	5.26	5.51	5.76	6.01	6.26
MM	±1.30	101.9	108.2	114.6	120.9	127.3	133.6	140.0	146.3	152.7	159.0

4 BOSS MOUNT ON 2.844 BC (2.625 THRU 3.125)
AVAILABLE WITH OR WITHOUT RIGID BASE



LENGTH		E	F	G	H	J	K	L	M	N	P
INCHES	±0.05	4.13	4.38	4.63	4.88	5.13	5.38	5.63	5.88	6.13	6.38
MM	±1.30	104.9	111.3	117.6	124.0	130.3	136.7	143.0	149.4	155.7	162.1

FLAT HEAD
AVAILABLE WITH OR WITHOUT RIGID BASE



LENGTH		E	F	G	H	J	K	L	M	N	P
INCHES	±0.05	3.77	4.02	4.27	4.52	4.77	5.02	5.27	5.52	5.77	6.02
MM	±1.30	95.8	102.1	108.5	114.8	121.2	127.5	133.9	140.2	146.6	152.9

33 Frame AC Motor Series Performance Specifications

						Rated Load						Starting		Capacitor	
Motor Types	Poles	Performance Designator	Lengh	Voltage	Frequency	HP Rating	Amps	Watts	Speed	Torque	Maximum Torque	Amps	Torque	Mfd.	Vac
KP	2	08	E	115	60	1/25	0.5	54	3460	12.0	21	1.3	5.0	6.0	236
KP	2	09	F	115	60	1/20	0.6	65	3490	14.8	31	1.9	6.0	7.5	236
KP	2	10	F	115	60	1/15	0.8	87	3470	20.0	35	2.0	8.4	10.0	236
KP	2	11	G	115	60	1/12	0.9	98	3495	37.8	45	2.9	9.6	12.0	236
KP	2	12	H	115	60	1/10	1.0	107	3495	41.2	56	3.6	10.4	12.0	236
KP	2	13	J	115	60	1/8	1.2	127	3485	49.2	70	4.6	9.8	12.0	236
KP	2	14	K	115	60	1/6	1.6	167	3480	65.2	84	5.7	11.9	15.0	236
KP	2	15	L	115	60	1/5	1.8	194	3490	75.2	111	7.2	16.7	20.0	236
KP	2	16	M	115	60	1/4	2.3	238	3485	92.4	140	9.4	17.0	20.0	236
KP	2	17	N	115	60	1/3	2.8	316	3450	99.0	186	12.7	24.3	25.0	236
KP	4	06	F	115	60	1/40	0.4	38	1730	14.8	26	0.7	8.9	5.0	236
KP	4	07	G	115	60	1/30	0.4	44	1730	19.7	34	1.0	11.3	6.0	236
KP	4	08	G	115	60	1/25	0.5	56	1730	23.7	39	1.0	14.2	7.5	236
KP	4	09	H	115	60	1/20	0.6	65	1730	29.6	50	1.3	16.5	9.0	236
KP	4	10	J	115	60	1/15	0.7	84	1740	39.3	71	2.0	22.4	12.0	236
KP	4	11	K	115	60	1/12	0.9	102	1735	48.9	91	2.6	28.5	15.0	236
KP	4	12	L	115	60	1/10	1.0	115	1740	58.9	108	3.1	28.4	15.0	236
KP	4	13	M	115	60	1/8	1.3	143	1735	73.5	125	3.6	36.8	20.0	236
KP	4	14	N	115	60	1/6	1.6	178	1725	97.2	171	3.7	44.7	25.0	236
KP	2	08	E	220	50	1/25	0.3	57	2855	14.4	22	0.6	4.1	1.5	370
KP	2	09	F	220	50	1/20	0.3	70	2900	17.8	33	1.0	5.8	2.0	370
KP	2	10	F	220	50	1/15	0.4	88	2870	24.0	36	1.1	7.5	2.5	370
KP	2	11	G	220	50	1/12	0.4	89	2915	24.0	47	1.5	8.0	3.0	370
KP	2	12	H	220	50	1/10	0.5	105	2900	36.3	62	1.8	11.0	4.0	370
KP	2	13	J	220	50	1/8	0.6	117	2890	44.4	69	2.2	7.8	3.0	370
KP	2	14	K	220	50	1/6	0.8	149	2885	60.0	78	2.5	9.4	4.0	370
KP	2	15	L	220	50	1/5	0.8	125	2890	72.0	75	2.3	9.3	5.0	370
KP	2	16	M	220	50	1/4	1.5	243	2900	90.0	136	4.4	16.9	5.0	370
KP	2	17	N	220	50	1/3	1.2	266	2850	120.0	152	3.8	32.7	10.0	370
KP	4	06	F	220	50	1/40	0.2	37	1430	17.8	31	0.4	7.7	1.3	370
KP	4	07	G	220	50	1/30	0.2	47	1430	23.6	44	0.6	10.0	1.5	370
KP	4	08	G	220	50	1/25	0.3	56	1430	28.4	50	0.7	13.0	2.0	370
KP	4	09	H	220	50	1/20	0.3	71	1440	35.5	75	0.9	24.0	2.5	440
KP	4	10	J	220	50	1/15	0.4	80	1455	35.5	96	1.4	21.0	3.0	370
KP	4	11	K	220	50	1/12	0.6	114	1440	58.8	130	1.8	30.0	4.0	370
KP	4	12	L	220	50	1/10	0.6	128	1430	72.0	150	2.1	30.0	4.0	370
KP	4	13	M	220	50	1/8	0.8	156	1430	90.0	166	2.4	34.1	5.0	370
KP	4	14	N	220	50	1/6	1.0	195	1425	120.0	199	2.9	38.1	6.0	370

All torque values are in ounce-inches. KP=Permanent Split Capacitor; KL=Capacitor Start; L=Polyphase. Other motor types not shown here: SKP=Synchronous Permanent Split Capacitor; SKL=Synchronous Capacitor Start

These 3.86 inch diameter motors are designed for continuous duty in a 40°C ambient temperature. At nominal 1650 or 3450 rpm, ratings range from 1/50 to 1/3 HP (contact your area sales representative for intermittent ratings, higher ambient, or TENV construction). Motor specifications based on theoretical values for reference only.

33 Frame AC Motor Series Performance Specifications

Motor Types	Poles	Performance Designator	Length	Voltage	Frequency	Rated Load					Maximum Torque	Starting		Capacitor	
						HP Rating	Amps	Watts	Speed	Torque		Amps	Torque	Mfd.	Vac
KL	2	09	F	115	60	1/20	1.0	80	3450	14.6	32	6.2	44.7	124.0	110
KL	2	10	G	115	60	1/15	1.1	92	3450	19.5	44	6.7	55.6	124.0	110
KL	2	11	H	115	60	1/12	1.3	107	3450	24.6	53	7.9	67.1	145.0	110
KL	2	12	J	115	60	1/10	1.5	123	3450	29.5	64	9.1	84.9	161.0	110
KL	2	13	K	115	60	1/8	1.6	148	3450	37.2	73	10.5	102.0	189.0	110
KL	4	12	M	115	60	1/10	0.6	128	1430	72.0	150	2.1	30.0	4.0	370
KL	4	13	N	115	60	1/8	0.8	165	1430	90.0	175	2.5	36.0	5.0	370
KL	4	14	P	115	60	1/6	1.2	225	1425	120.0	230	3.4	44.0	6.0	370
KL	2	09	F	220	50	1/20	0.7	99	2855	17.6	36	2.6	38.0	30.0	220
KL	2	10	G	220	50	1/15	0.8	108	2860	23.5	47	2.7	48.0	30.0	220
KL	2	11	H	220	50	1/12	0.8	120	2870	29.4	61	3.5	63.0	36.0	220
KL	2	12	J	220	50	1/10	0.9	135	2875	35.4	75	4.1	80.0	43.0	220
KL	2	13	K	220	50	1/8	1.0	155	2860	44.6	86	4.5	94.0	47.0	220
KL	2	14	L	220	50	1/6	1.4	200	2875	60.0	150	5.8	133.0	53.0	220
KL	4	10	K	220	50	1/15	1.0	123	1420	47.3	110	2.8	108.0	21.0	220
KL	4	11	L	220	50	1/12	1.1	150	1415	60.0	123	3.9	140.0	43.0	165
KL	4	12	M	220	50	1/10	1.2	162	1410	72.0	145	3.7	160.0	30.0	220
KL	4	13	N	220	50	1/8	1.6	200	1415	90.0	200	4.5	188.0	30.0	220
KL	4	14	P	220	50	1/6	1.9	265	1400	122.0	210	5.1	250.0	43.0	220
L	2	10	G	230	60	1/15	0.3	77	3425	19.7	64	0.5	64.5	-	-
L	2	11	H	230	60	1/12	0.3	90	3425	24.7	85	0.7	85.6	-	-
L	2	12	H	230	60	1/10	0.4	108	3420	29.5	96	1.1	92.5	-	-
L	2	13	J	230	60	1/8	0.4	128	3420	36.5	127	1.3	122.5	-	-
L	2	14	K	230	60	1/6	0.5	165	3415	48.9	175	2.1	166.8	-	-
L	2	15	L	230	60	1/5	0.5	199	3405	59.1	196	2.5	180.3	-	-
L	2	16	M	230	60	1/4	0.6	244	3420	73.7	276	3.7	258.2	-	-
L	2	17	M	230	60	1/3	0.9	326	3400	99.6	269	5.0	224.0	-	-
L	4	05	F	230	60	1/50	0.1	30	1705	11.8	50	0.5	46.0	-	-
L	4	06	F	230	60	1/40	0.2	36	1710	14.7	60	0.7	55.0	-	-
L	4	07	G	230	60	1/30	0.2	44	1710	19.6	82	0.9	75.0	-	-
L	4	08	H	230	60	1/25	0.2	53	1715	23.6	96	1.0	88.0	-	-
L	4	09	H	230	60	1/20	0.3	61	1710	29.5	121	1.2	112.0	-	-
L	4	10	J	230	60	1/15	0.3	76	1710	39.4	166	1.6	155.0	-	-
L	4	11	K	230	60	1/12	0.4	97	1715	49.3	204	2.1	191.0	-	-
L	4	12	L	230	60	1/10	0.4	109	1710	58.9	237	2.3	224.0	-	-
L	4	13	M	230	60	1/8	0.6	136	1720	74.0	267	2.9	237.0	-	-
L	4	14	N	230	60	1/6	0.7	168	1725	99.0	397	3.5	351.0	-	-

All torque values are in ounce-inches. *Permanent Split Capacitor; KL=Capacitor Start; L=Polyphase. Other motor types not shown here: SKP=Synchronous Permanent Split Capacitor; SKL=Synchronous Capacitor Start*

These 3.86 inch diameter motors are designed for continuous duty in a 40°C ambient temperature. At nominal 1650 or 3450 rpm, ratings range from 1/50 to 1/3 HP (contact your area sales representative for intermittent ratings, higher ambient, or TENV construction). Motor specifications based on theoretical values for reference only.

ElectroCraft AC Series Model Number Designations

KL33 – 084A – OSBSWF

Motor Type
KL- Capacitor Start
KP- Permanent Split Capacitor
L- Polyphase
SKP- Synchronous Split Capacitor
SKL- Synchronous Capacitor Start

Frame Designator
26- 26 Frame (3.11 Diameter)
29- 29 Frame (3.42 Diameter)
33- 33 Frame (3.86 Diameter)

Performance Designator
26- 05-13 (see catalog)
29- 06-16 (see catalog)
33- 05-17 (see catalog)
Z- Custom – consult factory

Speed Designator
2- 2 Pole
4- 4 Pole
Z- Custom – consult factory for availability

Voltage Designator
A- 115V – 60 Hz
B- 220V – 50 Hz
C- 230V – 60 Hz
Z- Custom – consult factory

Enclosure Designator
O- Open Ventilated (see catalog for performance details)
V- TENV (consult factory for performance details)
F- Fan Cooled (33 Frame only)

Shaft Configuration
S- Standard (see catalog)
Z- Custom – consult factory

Front Head Designator
See catalog for details

26 Frame
S- Standard Flat Head – STD Tap
F- Four [4] Boss Mount on 2.625 B.C.
R- Resilient Hub
Z- Custom - consult factory

29 Frame
S- Standard Flat Head – STD Tap
F- Four [4] Stud Mount
Z- Custom - consult factory

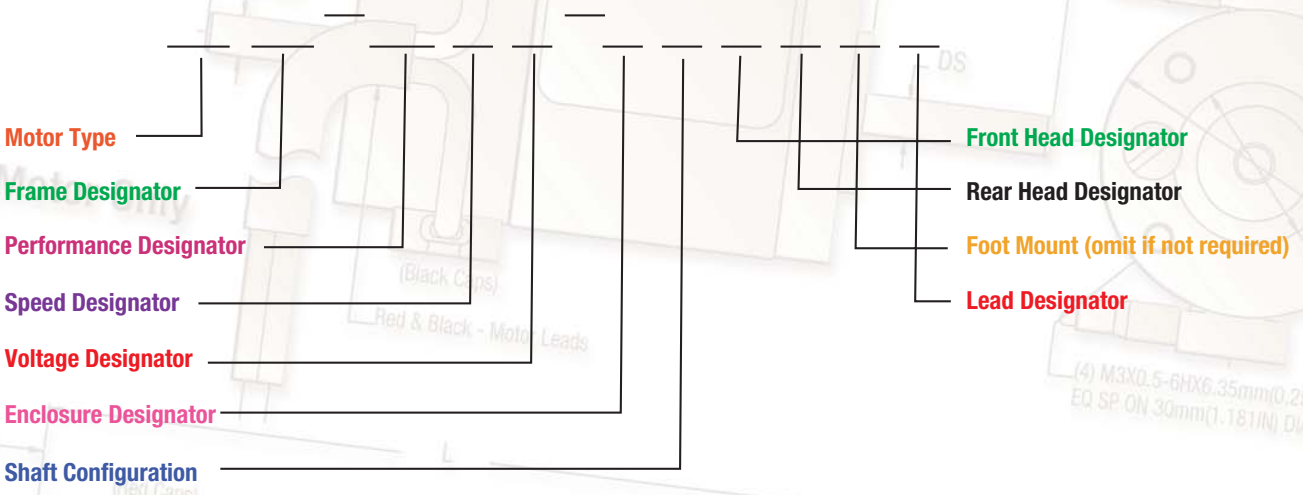
33 Frame
S- Standard Flat Head – STD Tap
F- Four [4] Boss Mount on 2.844 B.C.
R- Resilient Hub
B- Four [4] Boss Mount on 1.75 B.C.
M- Four [4] Boss Mount on 2.625 thru 3.125 B.C.
P- Pump Mount
Z- Custom - consult factory

Rear Head Designator
See catalog for details
S- Standard Flat Head
R- Resilient Hub (26, 33 Frames only)
Z- Custom - consult factory

Foot Mount (omit if not required)
W- Rigid Base
T- Resilient Base (26, 33 Frames only)

Lead Designator
F- Flying leads
J- Junction box (33 Frame only)
Z- Custom – consult factory for terminals or connectors

AC Series Model Designations



Please explain any custom (Z) designators:

Please indicate any special features not covered in the model number:

ElectroCraft specializes in assisting you with an engineered solutions to meet your application needs. We also specialize in sourcing and assembling value added components to your assembly. Please contact your area sales representative (see world wide locations section) for assistance with your application needs.

Need a product fast?! ElectroCraft carries a limited supply of off-the-shelf model variations available for shipment within 48 hours. Please contact your area sales representative or our inside sales staff for a complete listing of stocked model numbers and pricing sheet.