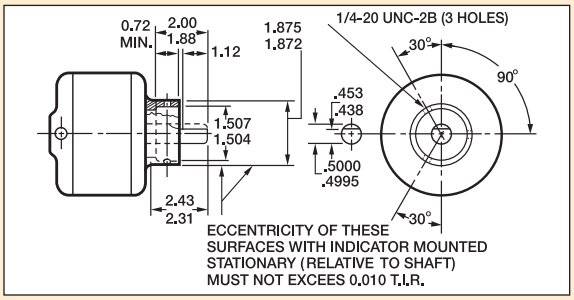
NEMA Guidelines

NEMA 48K AND 56K HUB DIMENSIONS FOR SUMP PUMP MOTORS



NEMA LETTER DESIGNATIONS FOLLOWING FRAME NUMBER

C: Face-mount; see previous page.

H: Designated 56H motors have 2 sets of 2F mounting holes—3" and 5".

J: Face-mount for jet pumps; see previous page for dimensions.

K: Has hub for sump pump mounting; see column at left for dimensions.

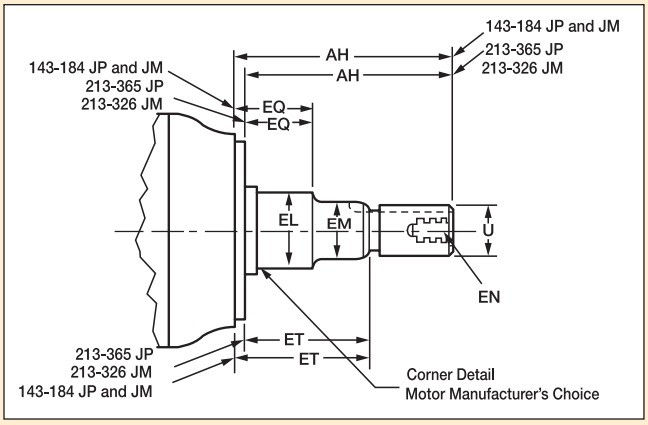
M, N: Flange mount for oil burner; see page 70.

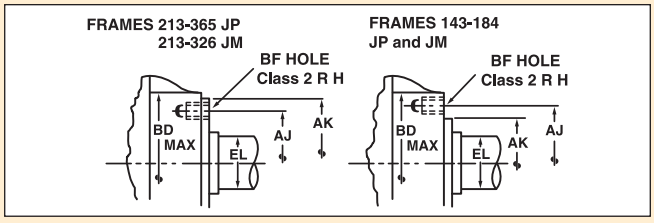
T, U: Integral HP motor dimension standards set by NEMA in 1964 and 1953.

Y: Nonstandard mounting; see manufacturer's drawing for mounting dimensions.

Z: Nonstandard shaft (N-W+U dimensions); see manufacturer's drawing for shaft dimensions.

CLOSE-COUPLED PUMP SHAFT DIMENSIONS





Frame Designations	Dimensions (in.) U	EL	EM	EN	EQ	ET	AH	AJ	AK	BD	BF
143JM/145JM	⅞	1 5/32	1	⅜-16 x ¾	⅝	2⅞	4¼	5⅞	4½	6⅝	⅜-16
143JP/145JP	⅞	1 5/32	1	⅜-16 x ¾	1 9/16	5 15/16	7 5/16	5⅞	4½	6⅝	⅜-16
182JM/184JM	⅞	1¼	1	⅜-16 x ¾	⅝	2⅞	4¼	5⅞	4½	6⅝	⅜-16
182JP/184JP	⅞	1¼	1	⅜-16 x ¾	1 9/16	5 15/16	7 5/16	5⅞	4½	6⅝	⅜-16
213JM/215JM	⅞	1¼	1	⅜-16 x ¾	⅝	2⅞	4¼	7¼	8½	9	½-13
213JP/215JP	1¼	1¾	1⅜	½-13 x 1	2⅜	5⅞	8⅛	7¼	8½	9	½-13
254JM/256JM	1¼	1¾	1⅜	½-13 x 1	⅝	3	5¼	7¼	8½	9¼	½-13
254JP/256JP	1¼	1¾	1⅜	½-13 x 1	2⅜	5⅞	8⅛	7¼	8½	9	½-13
284JM/286JM	1¼	1¾	1⅜	½-13 x 1	⅝	3	5¼	11	12½	13⅞	⅝-11
284JP/286JP	1¼	1¾	1⅜	½-13 x 1	2⅜	5⅞	8⅛	11	12½	13⅞	⅝-11

IEC (International Electrotechnical Commission)

ENCLOSURES

- IEC uses numbers to denote a particular enclosure type
- The numbers follow the letters IP (Ingress Protection) in the motor description
- The first digit signifies, on a rating scale, how well-protected the motor is against entry of solid objects such as dust, wire, tools, or fingers
- The second digit signifies, on a rating scale, the motor's ability to protect against water entry

Common Enclosure Ratings

IP 22 - Open Dripproof Motors

IP 44 or 54 - Totally Enclosed (NEMA 12)

IP 45 - Weatherproof Motors

IP 55 - Washdown-Duty Motors

Common Motor Applications

IC 01 - NEMA Standard Open Motors

IC 40 (IC 410) - Totally Enclosed, Nonvented

IC 41 (IC 411) - Totally Enclosed, Fan-cooled

IC 48 (IC 418) - Totally Enclosed, Air Over

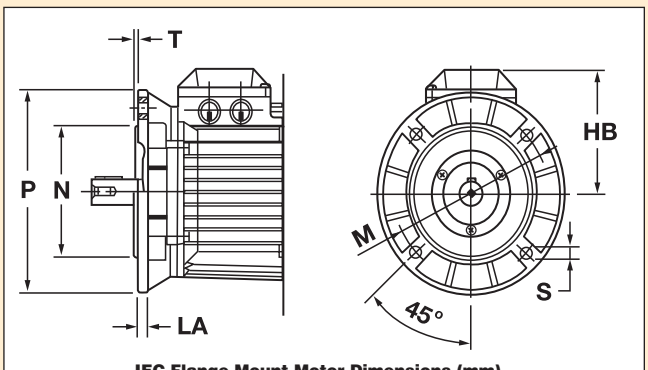
Efficiency Ratings

IEC uses the following ratings to designate motor efficiencies:

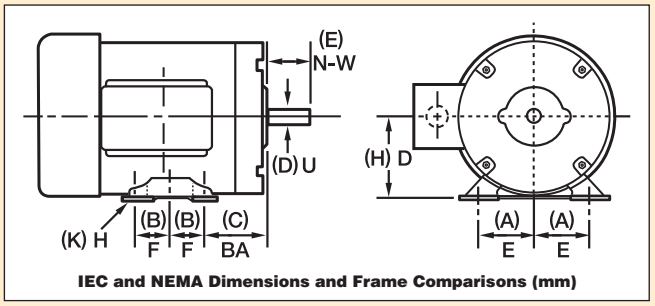
IE2 = Meets Epact levels

IE3 = Meets NEMA Premium

IE4 = Exceeds NEMA Premium



IEC Flange Mount Motor Dimensions (mm)



IEC and NEMA Dimensions and Frame Comparisons (mm)

IEC FLANGE MOUNT MOTOR DIMENSIONS (mm)

Frame	Large Flange (B5) D-Flange HB	LA	M	N	P	S	T	Small Flange (B14) C-Face HB	LA	M	N	P	S	T
63 *	108	7	115	95	140	10	3	68	7	75	60	90	M5	2.5
63	108	7	130	110	160	10	3.5	—	—	—	—	—	—	—
71	120	7	130	110	160	10	3.5	120	9	85	70	105	M6	2.5
80	126	12	165	130	200	12	3.5	126	9	100	80	120	M6	3
90S	139	12	165	130	200	12	3.5	139	9	115	95	140	M8	3
90L	139	12	165	130	200	12	3.5	139	9	115	95	140	M8	3
100L	170	11	215	180	250	15	4	170	14	130	110	160	M8	3.5
112	188	12	215	180	250	15	4	188	14	130	110	160	M8	3.5
132	213	12	265	230	300	15	4	215	14	165	130	200	M10	3.5

* M2AA63 can be supplied with shaft extension D=11, E=23, F=4, and GA=125mm, and DB=M4, if flange M=115mm.

IEC and NEMA DIMENSIONS AND FRAME COMPARISONS (mm)

(IEC) NEMA	(H) D	(A) E	(B) F	(K) H	(D) U	(C) BA	(E) N-W
(56) †	56	45	35.5	5.8	9	36	20
63	63	50	40	7	11	40	23
42	66.7	44.5	44.5	7.1	9.5	52.4	28.6
(71)	71	56	45	7	14	45	30
48	76.2	54	34.9	8.7	12.7	63.5	38.1
(80)	80	62.5	50	10	19	50	40
56	88.9	61.9	38.1	8.7	15.9	69.9	47.6
(90S)	90	70	50	10	24	56	50
143T	88.9	69.8	50.8	8.7	22.2	57.2	57.2
(90L)	90	70	62.5	10	24	56	50
145T	88.9	69.8	63.5	8.7	22.2	57.2	57.2
(100L) †	100	80	70	12	28	63	60
(112S)	112	95	57	12	28	70	60
182T	114.3	95.2	57.2	10.7	28	70	69.9
(112M)	112	95	70	12	28	70	60
184T	114.3	95.2	68.2	10.7	28	70	69.9

IEC and NEMA DIMENSIONS AND FRAME COMPARISONS (mm)

(IEC) NEMA	(H) D	(A) E	(B) F	(K) H	(D) U	(C) BA	(E) N-W
(132S)	132	108	70	12	38	89	80
213T	133.4	108	69.8	10.7	34.9	89	85.7
(132M)	132	108	89	12	38	89	80
215T	133.4	108	88.8	10.7	34.9	89	85.7
(160M)*	160	127	105	15	42	108	110
254T	158.8	127	104.8	13.5	41.3	108	101.6
(160L)*	160	127	127	15	42	108	110
256T	158.8	127	127	13.5	41.3	108	101.6
(180M)*	180	139.5	120.5	15	48	121	110
284T	177.8	139.8	120.2	13.5	47.6	121	117.5
(180L)*	180	139.5	139.5	15	48	121	110
286T	177.8	139.8	139.8	13.5	47.6	121	117.5
(200M)*	180	159	133.5	19	55	133	110
324T	203.3	158.8	133.4	16.7	54	133	133.4
(200L)*	200	159	152.5	19	55	133	110
326T	203.2	158.8	152.4	16.7	54	133	133.4

* Shaft dimensions of these motors may vary among manufacturers. † No NEMA equal.

2015 Energy Conservation Standards For Small Electric Motors

2015 SMALL MOTOR LEGISLATION

Energy efficiency is becoming more important for electric motors used in industrial, commercial, and residential applications. The U.S. Department of Energy (DOE) has established new standards for certain types of small electric motors that will become effective on March 9th, 2015 (March 9th, 2017 for motors that require listing or certification). The motors governed under the small motor ruling include NEMA General Purpose two digit frames 42, 48, and 56, open construction, continuous duty, 1/4 horsepower up through 3 horsepower in 3-phase, capacitor start induction run and capacitor start capacitor run designs. The small motor rule also includes metric designs built in IEC frames 63, 71, or 80, and kilowatt ranges from .18 kW to 2.2 kW. See tables for standard efficiency levels; see pages 12 and 13 for motors that meet or exceed these standards.

Table I.1—Standard Levels for 3-Phase Small Electric Motors

HP/kW	6-Pole (1200 RPM)	4-Pole (1800 RPM)	2-Pole (3600 RPM)
0.25/0.18	67.5	69.5	65.6
0.33/0.25	71.4	73.4	69.5
0.5/0.37	75.3	78.2	73.4
0.75/0.55	81.7	81.1	76.8
1/0.75	82.5	83.5	77.0
1.5/1.1	83.8	86.5	84.0
2/1.5	—	86.5	85.5
3/2.2	—	86.9	85.5

Table I.2—Standard Levels for Capacitor-Start Induction-Run and Capacitor-Start Capacitor-Run Small Electric Motors

HP/kW	6-Pole (1200 RPM)	4-Pole (1800 RPM)	2-Pole (3600 RPM)
0.25/0.18	62.2	68.5	66.6
0.33/0.25	66.6	72.4	70.5
0.5/0.37	76.2	76.2	72.4
0.75/0.55	80.2	81.8	76.2
1/0.75	81.1	82.6	80.4
1.5/1.1	—	83.8	81.5
2/1.5	—	84.5	82.9
3/2.2	—	—	84.1

3-Phase Motor EISA 2007/2010 Information

NEMA Premium

ENERGY LEGISLATION COVERAGE

The EPAct 2007 legislation separates the motors covered by the policy into 2 groups: Subtype 1 and Subtype 2. These are defined as follows.

SUBTYPE 1

- General Purpose 3-Phase Motors
- 1 to 200 HP
- NEMA frame 143T and larger
- C-Face Motors with Base Mount

Motors previously covered under EPAct 1992 will now be required to meet NEMA Premium Efficient levels (NEMA MG1 Table 12-12).

SUBTYPE 2

- General Purpose and Definite Purpose 3-Phase Motors
- 1 to 200 HP
- NEMA frame 143T and larger
- U Frame Motor Designs
- NEMA Design C Torque
- Close-Coupled Pump
- Metric IEC
- Fire Pump
- Footless Design, C-Face without Base
- Vertical Solid Shaft Normal Thrust
- 8 Pole General Purpose Design up to 600V
- NEMA Design B General Purpose 201 to 500 HP

3-Phase motors not covered under EPAct 1996 and meeting the following requirements, will now be required to meet old EPAct 1996 minimum efficiency standards (NEMA MG1 Table 12-11).

Note: NEMA Premium is a registered trademark of the National Electrical Manufacturers Association and may only be used on products covered by a memorandum of understanding between the manufacturer and NEMA.

NEMA Premium Nominal Full-Load Efficiency

Motor HP	Open Motors RPM			Enclosed Motors RPM		
	1200	1800	3600	1200	1800	3600
1	82.5	85.5	77.0	82.5	85.5	77
1½	86.5	86.5	84.0	87.5	86.5	84
2	87.5	86.5	85.5	88.5	86.5	85.5
3	88.5	89.5	85.5	89.5	89.5	86.5
5	89.5	89.5	86.5	89.5	89.5	88.5
7½	90.2	91.0	88.5	91.0	91.7	89.5
10	91.7	91.7	89.5	91.0	91.7	90.2
15	91.7	93.0	90.2	91.7	92.4	91.0
20	92.4	93.0	91.0	91.7	93.0	91.0
25	93.0	93.6	91.7	93.0	93.6	91.7
30	93.6	94.1	91.7	93.0	93.6	91.7
40	94.1	94.1	92.4	94.1	94.1	92.4
50	94.1	94.5	93.0	94.1	94.5	93.0
60	94.5	95.0	93.6	94.5	95.0	93.6
75	94.5	95.0	93.6	94.5	95.4	93.6
100	95.0	95.4	93.6	95.0	95.4	94.1
125	95.0	95.4	94.1	95.0	95.4	95.0
150	95.4	95.8	94.1	95.8	95.8	95.0
200	95.4	95.8	95.0	95.8	96.2	95.4
250	95.4	95.8	95.0	95.8	96.2	95.8
300	95.4	95.8	95.4	95.8	96.2	95.8
350	95.4	95.8	95.4	95.8	96.2	95.8
400	95.8	95.8	95.8	95.8	96.2	95.8
450	96.2	96.2	95.8	95.8	96.2	95.8
500	96.2	96.2	95.8	95.8	96.2	95.8

Hazardous Location Motor Temperature Codes

In addition to identifying the Class, Group, and Division of the hazardous location motor, you must also obtain the temperature code or maximum surface temperature for the motor. This code or temperature indicates the maximum surface temperature for all conditions including burnout, overload, single phasing, and locked rotor. The maximum surface temperature or T-Code must be identified on the nameplate.

TEMPERATURE IDENTIFICATION NUMBERS

"T" Number (T-Code On Nameplate)	Max. Temp. (For All Conditions)		"T" Number (T-Code On Nameplate)	Max. Temp. (For All Conditions)	
T1	450°C	842°F	T3A	180°C	356°F
T2	300°C	572°F	T3B	165°C	329°F
T2A	280°C	536°F	T3C	160°C	320°F
T2B	260°C	500°F	T4	135°C	275°F
T2C	230°C	446°F	T4A	120°C	248°F
T2D	215°C	419°F	T5	100°C	212°F
T3	200°C	392°F	T6	85°C	185°F

National Electrical Code Explosive Atmosphere Classifications

Certain locations are hazardous because the atmosphere may contain gas, vapor, or dust in explosive quantities. The National Electrical Code (NEC) divides these locations into Classes and Groups according to the type of explosive agent which may be present. Listed are some of the agents in each classification. For a complete list, see NFPA (National Fire Protection Association) publication 497M.

Underwriters Laboratories tests motors and other devices for safety in explosive atmospheres, and publishes a list of those products that meet its standards for each Class and Group.

Use of UL Listed devices does not necessarily make an installation conform to the NEC or local codes. Consult Chapter 5 of the NEC, local building codes, OSHA requirements, and insurance inspectors for detailed data as to proper procedures. This catalog does not contain any motors designed for Class I, Groups A or B atmospheres.

CLASS I

Group A: Acetylene

Group B: Butadiene, ethylene oxide, hydrogen, propylene oxide, manufactured gases containing more than 30% hydrogen by volume

Group C: Acetaldehyde, cyclopropane, diethyl ether, ethylene

Group D: Acetone, acrylonitrile, ammonia, benzene, butane, ethanol, ethylene dichloride, gasoline, hexane, isoprene, methane (natural gas), methanol, naphtha, propane, propylene, styrene, toluene, vinyl chloride, xylene

CLASS II

Group E: Aluminum, magnesium, and other metal dusts with similar characteristics

Group F: Carbon black, coke, or coal dust

Group G: Flour, starch, or grain dust

CLASS III

Easily ignitable fibers, such as rayon, cotton, sisal, hemp, cocoa fiber, oakum, excelsior, and other materials of similar nature

Rigid-Base Mount
No. 5K279

Cradle-Base Mount
No. 6XH57

Cradle-Base Mount
No. 5K671

Split-Phase Open Dripproof Motors

- Max. ambient temp.: 40°C
- Rotation: CW/CCW
- Insulation: Class B

Open dripproof motors are for use in clean, dry, and nonhazardous applications including fans, blowers, pumps, printing equipment, and other business machines. NEMA 42 frame is supplied with a relay instead of a centrifugal switch; relay mounting clip is included. UL Recognized and CSA Certified.

HP	Nameplate RPM	Frame	Thermal Protection	Voltage	Full Load Amps	Service Factor	Bearings	Overall Length	Shaft Dia.	Shaft Length	Mounting	Foot-notes	Item No.	
Single-Speed														
1/12	1725	42	None	115	3.7	1.40	Ball	6 7/8"	3/8"	1 1/8"	Cradle Base	—	**6K402**	✓
1/6	1725	48Z	None	115	4.2	1.35	Ball	9 5/16"	1/2"	1 7/8"	Cradle Base	39	**6XH64**	✓
	1140	48Z	None	115	4.5	1.35	Ball	10 5/16"	1/2"	1 7/8"	Cradle Base	39	**6XH78**	✓
	1140	56Z	None	115	4.5	1.35	Ball	10 5/16"	1/2"	1 7/8"	Cradle Base	31,50	**5K559**	✓
	850	56	None	115	7.0	1.35	Ball	11 13/16"	5/8"	1 7/8"	Cradle Base	41	**6XH80**	✓
1/4	1725/1425	48Z	Auto	110/220	4.2/2.1	1.35	Ball	9 1/2"	1/2"	1 7/8"	Rigid Base	6	**6XJ46**	✓
	1725	48Z	None	115	5.3	1.35	Ball	9 13/16"	1/2"	1 7/8"	Cradle Base	39	**6XH65**	✓
	1725	48Z	None	115	5.3	1.35	Ball	9 3/4"	1/2"	2 1/4"	Rigid Base	—	**6XJ35**	✓
	1725	48Z	None	230	2.5	1.35	Ball	9 13/16"	1/2"	1 7/8"	Cradle Base	—	**6XH61**	✓
	1725	48Z	Auto	115	5.3	1.35	Ball	9 13/16"	1/2"	1 7/8"	Cradle Base	—	**6K718**	✓
	1725	56Z	None	115	5.3	1.35	Ball	9 13/16"	1/2"	1 7/8"	Cradle Base	31,39,50	**5K280**	✓
	1725	56Z	None	115	5.3	1.35	Ball	9 1/2"	1/2"	1 7/8"	Rigid Base	31	**5K279**	✓
	1140	56	None	115	5.5	1.35	Ball	10 13/16"	5/8"	1 7/8"	Cradle Base	41	**6XJ57**	✓
	1140	56	None	208-230	2.7-2.9	1.35	Ball	10 13/16"	5/8"	1 7/8"	Cradle Base	—	**24C177**	✓
	850	56	None	115	6.9	1.25	Ball	11 13/16"	5/8"	1 7/8"	Cradle Base	41	**6XH73**	✓
1/3	3450	48Z	None	115	5.4	1.35	Ball	10 5/16"	1/2"	1 7/8"	Cradle Base	—	**5K586**	✓
	1725	48Z	None	115	7.0	1.35	Ball	9 13/16"	1/2"	1 7/8"	Cradle Base	—	**5K917**	✓
	1725	48Z	None	115	7.0	1.15	Ball	9 3/4"	1/2"	2 1/4"	Rigid Base	—	**6XH45**	✓
	1725	48Z	None	230	3.5	1.35	Ball	9 13/16"	1/2"	1 7/8"	Cradle Base	—	**6XH71**	✓
	1725	48Z	Auto	115	7.0	1.35	Ball	9 13/16"	1/2"	1 7/8"	Cradle Base	—	**5K601**	✓
	1725	48Z	Auto	230	3.5	1.35	Ball	9 13/16"	1/2"	1 7/8"	Cradle Base	—	**5K602**	✓
	1725	56Z	None	115	7.0	1.35	Ball	9 13/16"	1/2"	1 7/8"	Cradle Base	31,50	**5K534**	✓
	1725	56Z	None	115	7.0	1.35	Ball	9 1/2"	1/2"	1 7/8"	Rigid Base	31,50	**5K281**	✓
	1725	56Z	Auto	115	7.0	1.35	Ball	9 1/2"	1/2"	1 7/8"	Rigid Base	31	**5K412**	✓
	1140	56	None	115/230	6.7/3.4	1.35	Ball	10 13/16"	5/8"	1 7/8"	Cradle Base	41	**6XH74**	✓
1/2	3450	48Z	None	115	7.8	1.25	Ball	10 3/8"	1/2"	1 7/8"	Cradle Base	—	**6K844**	✓
	1725	48Z	None	115	8.9	1.25	Ball	10 5/16"	1/2"	1 7/8"	Cradle Base	—	**6K764**	✓
	1725	48Z	None	115	8.9	1.25	Ball	9 15/16"	1/2"	1 7/8"	Rigid Base	—	**5K984**	✓
	1725	56	None	115	8.9	1.25	Ball	10 5/16"	5/8"	1 7/8"	Cradle Base	—	**5K283**	✓
	1725	56	None	230	4.6	1.25	Ball	10 13/16"	5/8"	1 7/8"	Cradle Base	—	**5K288**	✓
	1725	56	Manual	115	8.9	1.25	Ball	9 15/16"	5/8"	1 7/8"	Rigid Base	—	**5K597**	✓
	1725	56Z	None	115	8.9	1.25	Ball	10 5/16"	1/2"	1 7/8"	Cradle Base	31	**4K913**	✓
	1725	56Z	None	115	8.9	1.25	Ball	10 5/16"	5/8"	2 1/4"	Rigid Base	—	**6XH82**	✓
3/4	1725	56	None	115	11.3	1.25	Ball	11 5/16"	5/8"	1 7/8"	Cradle Base	—	**6XJ13**	✓
	1725	56Z	None	115	11.3	1.25	Ball	11 1/4"	5/8"	2 1/4"	Rigid Base	—	**6XJ24**	✓
2-Speed														
1/6, 1/15	1725/1140	48Z	None	115	4.0/2.4	1.35	Ball	9 13/16"	1/2"	1 7/8"	Cradle Base	39,45	**6XH57**	✓
1/4, 1/8	1725/1140	48Z	None	115	4.6/4.3	1.35	Ball	10 5/16"	1/2"	1 7/8"	Cradle Base	38,45	**5K671**	✓
	1725/1140	56Z	None	115	4.9/3.3	1.35	Ball	10 5/16"	1/2"	1 7/8"	Cradle Base	31,45,50	**5K574**	✓
1/3, 1/9	1725/1140	48Z	None	115	5.9/3.4	1.35	Ball	10 13/16"	1/2"	1 7/8"	Cradle Base	39,45	**6XH75**	✓
	1725/1140	56	None	115	6.1/3.5	1.35	Ball	10 5/16"	5/8"	1 7/8"	Cradle Base	41,45	**6XH76**	✓
1/3, 1/6	1725/1140	56Z	None	115	6.1/3.8	1.35	Ball	10 5/16"	1/2"	1 7/8"	Cradle Base	31,45,50	**5K554**	✓
1/2, 1/6	1725/1140	56	None	115	7.5/4.9	1.25	Ball	10 13/16"	5/8"	1 7/8"	Cradle Base	41,45	**6XH67**	✓
1/2, 1/4	1725/1140	56	None	115	7.5/5.4	1.25	Ball	10 25/32"	5/8"	1 7/8"	Cradle Base	45	**5K423**	✓
1/2, 1/6	1725/1140	56	None	230	3.8/2.7	1.25	Ball	11 7/16"	5/8"	1 7/8"	Cradle Base	41	**6XH72**	✓
1/2, 1/4	1725/1140	56	None	230	3.8/2.8	1.25	Ball	10 25/32"	5/8"	1 7/8"	Cradle Base	—	**5K556**	✓

Footnotes: 6—60/50 Hz. 31—Have nonstandard 1/2"-dia. shaft with flat. 38—NEMA 48Y frame cradles are notched for mounting in place of 48 or 56 frame cradle. 39—Cradle with studs in a 3 5/8" square pattern. 41—Cradle with studs in a 4 3/16" square pattern. 45—2-speed 115V switch No. 1DGZ9 available, see page 3656. 50—Supplied with 5/8"-dia. shaft bushing.

Cradle-Base Mount

Rigid-Base Mount

★ Dayton

Split-Phase Totally Enclosed Fan-Cooled Motors

- Max. ambient temp.: 40°C
- Rotation: CW/CCW

Totally enclosed motors are for use in dusty, dirty, nonhazardous applications including fans, blowers, pumps, and other business machines. Feature large conduit box for easy wiring. UL Recognized and CSA Certified.

HP	Nameplate RPM	Frame	Thermal Protection	Voltage	Full Load Amps	Service Factor	Bearings	Ins. Class	Overall Length	Mounting	Foot-notes	Item No.	
Single-Speed													
1/8	1140	48Z	None	115	3.5	1.00	Ball	B	11 1/16"	Cradle Base	39	**6XJ01**	✓
1/6	1725	48Z	None	115	3.2	1.00	Ball	B	11 1/16"	Cradle Base	—	**6XJ03**	✓
	1725	48Z	None	115	3.2	1.00	Ball	B	11"	Rigid Base	—	**6XJ06**	✓
	1140	48Z	None	115	4.4	1.00	Ball	B	11 9/16"	Cradle Base	—	**6XH99**	✓
	1140	48Z	None	115	4.4	1.00	Ball	B	11 9/16"	Cradle Base	39	**6XJ04**	✓
1/4	1725	48Z	None	115	4.9	1.00	Ball	B	11"	Cradle Base	39	**6K517**	✓
	1725	48Z	None	115	4.9	1.00	Ball	B	10 5/8"	Rigid Base	—	**6XJ07**	✓
	1140	56	None	115/230	5.8/2.9	1.00	Ball	B	12"	Cradle Base	39	**6XJ14**	✓
1/3	1725	48Z	None	115	5.9	1.00	Ball	B	11"	Cradle Base	—	**6K572**	✓
	1725	56	None	115	5.9	1.00	Ball	B	11"	Cradle Base	40	**6XJ10**	✓
	1140	56	None	115	6.4	1.00	Ball	B	12 13/16"	Cradle Base	40	**6XJ47**	✓
1/2	1725	56	None	115	8.0	1.00	Ball	F	11 1/2"	Rigid Base	—	**5K596**	✓
	1725	56	None	115	8.0	1.00	Ball	F	11 1/2"	Cradle Base	40	**6XJ11**	✓
	1140	56	None	115	8.7	1.00	Ball	B	13 5/16"	Cradle Base	40	**6XJ56**	✓
2-Speed													
1/4, 1/12	1725/1140	48	None	115	4.0/2.3	1.00	Ball	B	12 5/8"	Cradle Base	39,45	**6XJ05**	✓
1/3, 1/10	1725/1140	56	None	115	5.5/3.0	1.00	Ball	B	12 5/16"	Cradle Base	40,45	**6XJ15**	✓
1/2, 1/4	1725/1140	56	None	115	7.2/5.0	1.00	Ball	B	11 13/16"	Rigid Base	45	**5K618**	✓
	1725/1140	56	None	115	7.2/5.0	1.00	Ball	B	12 13/16"	Cradle Base	40,45	**6XJ58**	✓

Footnotes: 39—Cradle with studs in a 3⅝" square pattern. 40—Cradle with studs in a 4 1/16" square pattern. 45—2-speed 115V switch No. 1DGZ9 available, see page 3656.

Cradle-Base Mount

Rigid-Base Mount

marathon™ Motors

Capacitor-Start/Capacitor-Run Open Dripproof and Totally Enclosed Motors

- Max. ambient temp.: 40°C
- Rotation: CW/CCW

Open dripproof motors are for use in clean, dry, and nonhazardous applications including fans, blowers, pumps, printing equipment, and other business machines.

Totally enclosed motors are suitable for the above and also dusty, dirty, and nonhazardous environments. All motors are UL Recognized and CSA Certified.

HP	Nameplate RPM	Frame	Thermal Protection	Voltage	Full Load Amps	Service Factor	Ins. Class	Overall Length	Mounting	Mfr. Model	Item No.	
Open Dripproof												
1/3	1725	56	Auto	100-120/200-240	4.0-3.8/2.0-1.9	1.35	B	10 3/4"	Cradle Base	E254	**1K101**	*✓
1/2	1725	56	Auto	100-120/200-240	5.8-5.6/2.9-2.8	1.25	B	10 3/4"	Cradle Base	E263	**1K103**	*✓
3/4	1725	56	Auto	100-120/200-240	9.0-8.8/4.5-4.4	1.00	B	11 3/8"	Cradle Base	EG272	**1K105**	*✓
1	1725	56H	Auto	100-120/200-240	11.8-11.4/5.9-5.7	1.15	B	12 1/16"	Cradle Base	E281	**1K107**	*✓
Totally Enclosed Fan-Cooled												
1/3	1725	56	None	100-120/200-240	4.0-3.8/2.0-1.9	1.35	B	11 13/16"	Rigid Base	E258	**1K108**	*✓
1/2	1725	56	None	100-120/200-240	5.8-5.6/2.9-2.8	1.25	B	11 13/16"	Rigid Base	E267	**1K109**	*✓
3/4	1725	56	None	100-120/200-240	9.0-8.8/4.5-4.4	1.25	B	12 7/16"	Rigid Base	E276	**1K110**	*✓
	1140	56	None	115/230	10.6/5.3	1.00	B	13 13/16"	Rigid Base	C271	**2K599**	✓
1	1725	56	None	100-120/200-240	11.8-11.4/5.9-5.7	1.15	B	12 15/16"	Rigid Base	E285	**1K111**	*✓

**** 60/50 Hz.***

Minimum Wire Sizes (AWG) for 1-Phase Motor Circuits

To connect motor for proper voltage and rotation, refer to the connection diagram on the nameplate or inside the terminal/conduit box.

Note: NEC Article 310-5 states that 14 AWG is the minimum conductor size for general wiring at 115 to 440VAC.

Motor	25 ft.		50 ft.		100 ft.		150 ft.		200 ft.	
HP	115V	230V	115V	230V	115V	230V	115V	230V	115V	230V
1/8	14 (18)*	14 (18)*	14	14 (18)*	12	14 (18)*	10	14 (16)*	8	14
1/6	14 (16)*	14 (18)*	12	14 (18)*	10	14 (16)*	6	14	6	12
1/4	14	14 (18)*	10	14 (16)*	8	14	6	12	4	10
1/3	14	14 (18)*	10	14 (16)*	8	14	6	12	4	10
1/2	12	14 (18)*	8	14	6	12	4	10	3	8
3/4	10	14 (16)*	6	12	4	10	2	8	1	6
1	10	14 (16)*	6	12	4	10	2	8	1	6
1 1/2	8	14	6	12	3	8	1	6	1/0	6
2	8	14	4	10	2	8	1/0	6	2/0	4
3	6	12	3	8	1/0	6	2/0	4	4/0	3

**** Smaller gauge (in parentheses) meets electrical requirements.***

★ Indicates Grainger Choice products.

✓= Repair & Replacement Coverage Available

Dayton

Capacitor-Start Open Dripproof and Totally Enclosed Cradle-Base Mount Motors

- Max. ambient temp.: 40°C
- Rotation: CW/CCW

Open dripproof motors are for use in clean, dry, and nonhazardous applications including fans, blowers, pumps, printing equipment, and other business machines.

Totally enclosed motors can be used where open dripproof motors are used, and are also suitable for dusty, dirty, and nonhazardous environments. All motors are UL Recognized and CSA Certified.

Open Dripproof

Totally Enclosed Fan-Cooled

HP	Nameplate RPM	Frame	Thermal Protection	Voltage	Full Load Amps	Service Factor	Bearings	Ins. Class	Overall Length	Foot-notes	Item No.	
Open Dripproof, Single-Speed												
	3450	48Z	Auto	115/230	6.6/3.3	1.35	Ball	B	10 5/16"	31	**24C178**	✓
	1725/1425	48Z	Auto	115/230	4.7/2.4	1.35	Ball	B	9 3/16"	—	**6K438**	✓
	1725	48Z	None	115/230	5.4/2.7	1.35	Ball	B	9 3/16"	—	**5K989**	✓
¼	1725	56	Auto	115/230	5.4/2.7	1.35	Ball	B	9 3/16"	—	**3K202**	✓
	1725	56	None	115/230	3.8/1.9	1.35	Ball	B	10 5/16"	—	**4K700**	✓
	1140	56	Auto	115/230	6.0/3.0	1.35	Ball	B	11 5/16"	—	**6XH92**	✓
	1140	56	None	115/230	6.0/3.0	1.35	Ball	B	13 5/16"	—	**24C179**	✓
	3450	48Z	Auto	115/230	6.5/3.2	1.35	Ball	B	10 5/16"	—	**6XH91**	✓
	1725/1425	48Z	None	115/230	5.4/2.7	1.35	Ball	B	10 13/16"	31	**6K927**	✓
⅓	1725	56	None	115/230	5.7/2.8	1.35	Ball	B	10 13/16"	—	**4K853**	✓
	1725	56	Manual	115/230	6.2/3.1	1.35	Ball	B	9 3/16"	—	**5K447**	✓
	1140	56	None	115/230	6.4/3.3	1.35	Ball	B	11 5/16"	—	**6XH93**	✓
	1140	56	Auto	115/230	6.4/3.3	1.35	Ball	B	10 13/16"	—	**6XH94**	✓
	3450	48Z	None	115/230	8.0/4.0	1.25	Ball	B	10 13/16"	—	**6XH89**	✓
	3450	56	Auto	115/230	8.0/4.0	1.25	Ball	B	10 13/16"	—	**6K345**	✓
½	1725	48Z	None	115/230	8.2/4.1	1.25	Ball	B	10 5/16"	—	**6K951**	✓
	1725	56	None	115/208-230	7.7/3.7-3.8	1.25	Ball	B	11 5/16"	—	**4K856**	✓
	1140	56	None	115/230	8.0/4.0	1.25	Ball	F	11 13/16"	—	**6XJ23**	✓
	1140	56	Auto	115/230	8.0/4.0	1.25	Ball	F	11 13/16"	—	**6XJ25**	✓
	3450	56	Auto	115/208-230	9.2/4.7-4.6	1.25	Ball	B	11 1/16"	—	**5FTR3**	✓
	3450	56	None	115/208-230	9.2/4.7-4.6	1.25	Ball	B	11 1/16"	—	**5FTR4**	✓
¾	1725	56	None	115/208-230	9.8/5.2-5.0	1.25	Ball	B	11 13/16"	—	**4K859**	✓
	1140	56	None	115/230	9.7/4.9	1.15	Ball	F	13 5/16"	24,41	**6XJ33**	✓
	1140	56	Auto	115/230	9.7/4.9	1.15	Ball	F	13 5/16"	24	**5PGZ6**	✓
	3450	56	Auto	115/208-230	14.6/6.9-7.3	1.25	Ball	B	11 13/16"	—	**6K347**	✓
	3450	56	None	115/208-230	14.6/6.9-7.3	1.25	Ball	B	11 13/16"	—	**5FTR5**	✓
1	1725	56	None	115/208-230	13.6/6.9-6.9	1.15	Ball	B	11 13/16"	—	**5K922**	✓
	1140	56	Auto	115/230	11.3/5.7	1.15	Ball	F	13 5/16"	24	**5PGZ7**	✓
	1140	56	None	115/230	12.8/6.4	1.15	Ball	F	13 5/16"	24	**5FTR6**	✓
	3450	56	Auto	115/208-230	18.6/9.8-9.3	1.15	Ball	B	12 5/16"	—	**6K365**	✓
	3450	56	None	115/208-230	14.0/7.6-7.0	1.15	Ball	B	12 3/16"	—	**5FTR7**	✓
1½	1725	56	None	115/230	19.2/9.6	1.15	Ball	B	13 5/16"	—	**6K162**	✓
	1725	56	Auto	115/230	19.2/9.6	1.15	Ball	B	13 5/16"	—	**6K324**	✓
	1725	56H	Auto	115/208-230	19.2/10.0-9.6	1.15	Ball	B	13 5/16"	—	**24C183**	✓
	3450	56	Auto	115/230	22.7/11.3	1.15	Ball	B	13 5/16"	—	**6K805**	✓
2	3450	56	None	115/230	22.4/11.2	1.15	Ball	B	13 5/16"	24	**5FTR8**	✓
	1725	56H	Auto	115/230	20.0/10.0	1.15	Ball	F	14 5/16"	—	**5PGZ8**	✓
	1725	56H	None	115/230	20.0/10.0	1.15	Ball	F	14 5/16"	—	**5PGZ9**	✓
Open Dripproof, 2-Speed												
½, ⅐	1725/1140	56	None	115	6.4/3.2	1.25	Ball	B	11 7/16"	—	**5FTR9**	✓
	1725/1140	56	Auto	115	6.4/3.2	1.25	Ball	B	11 7/16"	—	**5FTT0**	✓
¾, ¼	1725/1140	56	None	115	7.9/4.9	1.25	Ball	B	10 13/16"	24,41	**6XJ26**	✓
¾, ½	1725/1140	56	Auto	115	9.8/5.2	1.25	Ball	B	11 13/16"	—	**5FTT1**	✓
	1725/1140	56	None	115	10.1/7.1	1.15	Ball	B	11 13/16"	24,41	**6XJ34**	✓
1, ⅓	1725/1140	56	None	208-230	5.2-5.0/3.5	1.15	Ball	B	11 13/16"	24,41	**6XJ36**	✓
	1725/1140	56	Auto	115	11.9/6.0	1.15	Ball	B	11 13/16"	—	**5FTT2**	✓
Totally Enclosed Fan-Cooled, Single-Speed												
	3450	48Z	Auto	115/230	6.0/3.0	1.00	Ball	B	11 5/8"	—	**5PHA0**	✓
	3450	56	Auto	115/230	4.6/2.3	1.00	Ball	B	12 9/16"	—	**5PHA1**	✓
¼	1725	48Z	None	115/230	5.3/2.7	1.00	Ball	B	11 1/2"	—	**6XJ08**	✓
	1725	56	Auto	115/230	5.3/2.7	1.00	Ball	B	11 1/2"	—	**5K410**	✓
	1140	56	Auto	115/230	4.7/2.3	1.00	Ball	B	11 1/4"	—	**5PHA2**	✓
	3450	56	Auto	115/230	5.2/2.6	1.00	Ball	B	11 1/4"	—	**5PHA3**	✓
⅓	1725	56	Auto	115/230	5.8/2.9	1.00	Ball	B	11 1/2"	—	**5K411**	✓
	1140	56	Auto	115/230	5.8/2.9	1.00	Ball	B	12 9/16"	—	**5PHA4**	✓
	3450	56	Auto	115/230	7.4/3.7	1.00	Ball	B	11 1/4"	—	**5PHA5**	✓
½	1725	56	Auto	115/230	10.1/5.1	1.00	Ball	B	12 5/16"	—	**6K477**	✓
	1140	56	Auto	115/230	8.5/4.2	1.00	Ball	B	12 7/8"	—	**5PHA6**	✓
	3450	56	Auto	115/230	9.6/4.8	1.00	Ball	B	12 5/8"	—	**5PHA7**	✓
¾	1725	56	Auto	115/230	12.2/6.1	1.00	Ball	B	12 7/8"	—	**6K478**	✓
	1140	56H	Auto	115/230	11.4/5.7	1.00	Ball	B	13 5/8"	24	**5PHA8**	✓
	3450	56	Auto	115/230	12.0/6.0	1.00	Ball	B	12 5/8"	—	**5PHA9**	✓
1	1725	56	Auto	115/230	13.1/6.6	1.00	Ball	B	12 13/16"	—	**6K810**	✓
	1140	56H	Auto	115/230	13.6/6.8	1.00	Ball	B	14 1/8"	24	**5PHC0**	✓

Footnotes: 24—Capacitor-start, capacitor-run. 31—Have nonstandard ½" dia. shaft with flat. 41— Cradle with studs in a 4 3/16" square pattern.

Open Dripproof
No. 5K116

Totally Enclosed Fan-Cooled
No. 6K123

Capacitor-Start Base-Mount Motors

Dayton

- Max. ambient temp.: 40°C
- Rotation: CW/CCW
- Bearing: ball

UL Recognized and CSA Certified.

Open Dripproof Motors—For use in clean, dry, and nonhazardous environments. 1½ HP and above feature side-mounted conduit box.

Totally Enclosed Fan-Cooled Motors—For use in dirty, dusty, and nonhazardous environments. Can be used in place of open dripproof motors.

						OPEN DRIPPROOF					TOTALLY ENCLOSED FAN-COOLED				
HP	Nameplate RPM	Frame	Thermal Protection	Voltage	Ins. Class	Full Load Amps	Service Factor	Overall Length	Item No.		Full Load Amps	Service Factor	Overall Length	Item No.	
¼	1725	48	Auto	115/208-230	B	5.2/2.7-2.6	1.35	9¼"	**6K971**	✓	4.5/2.2-2.2	1.00	9⅞"	**5K191**	✓
	1725	56	None	115/208-230	B	5.0/2.3-2.5	1.35	10"	**5UKC5**	✓	4.2/2.1-2.1	1.15	10¼"	**5K262**	✓
	1725	56	Auto	115/208-230	B	5.0/2.3-2.5	1.35	10"	**3K201**	✓	4.2/2.1-2.1	1.15	10¼"	**5K263**	✓
	1140	56	None	115/208-230	B	6.6/3.1-3.3	1.35	12"	**5K440**	✓	6.8/3.1-3.4	1.15	11¹³⁄₁₆"	**5UKE5**	✓
⅓	3450	48	None	115/208-230	B	4.4/2.2-2.2	1.35	10¹⁄₁₆"	**5UKC7**	✓	4.8/2.6-2.5	1.00	10"	**5UKE6**	†✓
	3450	48	Auto	115/208-230	B	4.4/2.2-2.2	1.35	10¹⁄₁₆"	**5UKC6**	✓	4.3/2.6-2.5	1.00	10⅜"	**6K481**	†✓
	1725	48	None	115/208-230	B	6.4/3.0-3.2	1.35	9⅞"	**6K241**	✓	6.1/3.0-3.1	1.00	11"	**5UKE7**	✓
	1725	48	Auto	115/208-230	B	5.7/2.7-2.9	1.35	9¹³⁄₁₆"	**6K973**	✓	6.1/3.1	1.00	11"	**5K192**	✓
	1725	56	None	115/208-230	B	6.4/3.0-3.2	1.35	10¼"	**4K852**	✓	6.0/3.0-3.0	1.15	10½"	**4K936**	✓
	1725	56	Manual	115/208-230	B	6.4/3.0-3.2	1.35	10½"	**5K599**	✓	7.8/3.9-3.9	1.15	11"	**5UKE8**	✓
	1725	56	Auto	115/208-230	B	5.7/2.7-2.9	1.35	10¼"	**5K115**	✓	7.8/3.9	1.15	11"	**5K121**	✓
	1140	56	None	115/208-230	B	8.0/3.8-4.0	1.35	12"	**5K118**	✓	7.8/3.6-3.9	1.00	12⅝"	**5K502**	✓
½	3450	48	None	115/208-230	B	7.6/3.8-3.9	1.25	10⅜"	**5K683**	✓	6.5/3.5-3.4	1.00	10⁷⁄₁₆"	**5UKF0**	†✓
	3450	48	Manual	115/208-230	B	7.6/3.8-3.9	1.25	10⅜"	**6K361**	✓	6.5/3.5-3.4	1.00	11½"	**5UKE9**	†✓
	3450	48	Auto	115/208-230	B	8.4/3.8-4.2	1.25	10⅜"	**4K131**	✓	6.5/3.4	1.00	10⁷⁄₁₆"	**6K482**	†✓
	3450	56	None	115/208-230	B	7.6/3.8-3.9	1.25	10⅞"	**5UKD0**	✓	8.4/4.0-4.2	1.00	11¹³⁄₁₆"	**5UKF2**	✓
	3450	56	Manual	115/208-230	B	7.6/3.8-3.9	1.25	10⅞"	**5UKC9**	✓	8.4/4.0-4.2	1.00	12⅛"	**6K184**	✓
	3450	56	Auto	115/208-230	B	8.4/3.8-4.2	1.25	10¾"	**5UKC8**	✓	8.4/4.0-4.2	1.00	11¹³⁄₁₆"	**5UKF1**	✓
	1725	48	None	115/208-230	B	8.6/4.1-4.3	1.25	11⁵⁄₁₆"	**6K178**	✓	8.0/4.0-4.0	1.00	11⅜"	**6K177**	✓
	1725	48	Auto	115/208-230	B	8.6/4.3-4.3	1.25	11⁵⁄₁₆"	**5K987**	✓	8.0/4.0-4.0	1.00	10⅞"	**5K193**	✓
	1725	56	None	115/208-230	B	8.8/4.2-4.4	1.25	10⅞"	**4K855**	✓	9.0/4.3-4.5	1.15	11-6/16"	**6K937**	✓
	1725	56	Manual	115/208-230	B	8.8/4.2-4.4	1.25	10³⁄₁₆"	**5K696**	✓	8.0/4.0-4.0	1.15	11¼"	**6K637**	✓
	1725	56	Auto	115/208-230	B	8.8/4.2-4.4	1.25	9¹⁄₁₆"	**5K116**	✓	8.0/4.0-4.0	1.15	11¾"	**6K122**	✓
	1140	56	None	115/208-230	B	10.6/5.1-5.3	1.25	12"	**5K617**	✓	9.6/4.7-4.8	1.00	13⅜"	**5K672**	*✓
¾	3450	48	None	115/208-230	B	9.6/4.4-4.8	1.25	10⅝"	**5K684**	✓	9.4/5.0-4.7	1.00	12"	**5UKF4**	✓
	3450	48	Auto	115/208-230	B	8.7/4.5-4.3	1.25	10⅜"	**5UKD1**	✓	9.4/5.0-4.7	1.00	12"	**5UKF3**	✓
	3450	56	None	115/208-230	B	9.6/4.4-4.8	1.25	11"	**5UKD3**	✓	10.6/5.3-5.3	1.00	12⁵⁄₁₆"	**5UKF5**	✓
	3450	56	Manual	115/208-230	B	—	—	—	—		10.6/5.3-5.3	1.00	12⅜"	**6K358**	✓
	3450	56	Auto	115/208-230	B	9.6/4.4-4.8	1.25	11"	**4K130**	✓	10.6/5.3-5.3	1.00	12⅜"	**6K483**	✓
	1725	56	None	115/208-230	B	12.0/5.8-6.0	1.25	11⅜"	**4K858**	✓	11.0/5.4-5.5	1.15	13"	**6K938**	✓
	1725	56	Manual	115/208-230	B	13.0/5.8-6.0	1.00	10¹⁵⁄₁₆"	**5K460**	✓	11.0/5.4-5.5	1.15	12⅜"	**6K639**	✓
	1725	56	Auto	115/208-230	B	12.0/5.8-6.0	1.25	11½"	**5K117**	✓	11.0/5.4-5.5	1.15	13"	**6K123**	✓
	1140	56H	None	115/208-230	B	11.6/5.0-5.7	1.25	13⅞"	**6K949**	*✓	10.2/4.9-5.1	1.00	14⁵⁄₁₆"	**5UKF6**	*✓
1	3450	56	None	115/208-230	B	13.6/6.9-6.8	1.25	11"	**6K232**	✓	11.8/6.3-5.9	1.00	12⁷⁄₁₆"	**5UKF7**	✓
	3450	56	Manual	115/208-230	B	13.6/6.9-6.8	1.25	11"	**6K385**	✓	11.8/6.3-5.9	1.00	12⅜"	**5K960**	✓
	3450	56	Auto	115/208-230	B	10.6/5.5-5.3	1.25	11¾"	**4K129**	✓	11.8/6.3-5.9	1.00	12⅝"	**6K484**	✓
	1740	182	None	115/230	F	14.0/7.0	1.25	12³⁄₁₆"	**5K480**	✓	14.0/7.0	1.00	13"	**5K485**	✓
	1730	143T	None	115/208-230	B	13.4/6.8-6.7	1.25	11½"	**6K825**	✓	—	—	—	—	
	1725	56H	None	115/208-230	B	15.0/7.6-7.5	1.15	11½"	**5K921**	*✓	13.4/6.8-6.7	1.15	12¹³⁄₁₆"	**1K065**	✓
	1725	56H	Manual	115/208-230	B	13.4/6.8-6.7	1.25	11½"	**6K699**	*✓	13.4/6.8-6.7	1.15	12⅞"	**6K640**	✓
	1725	56H	Auto	115/208-230	B	15.0/7.5-7.5	1.25	11½"	**6K148**	*✓	10.0/5.3-5.0	1.15	13"	**6K562**	*✓
	1725	56HZ	None	115/208-230	B	13.4/6.8-6.7	1.25	11½"	**6K271**	✓	13.4/6.8-6.7	1.15	12⅞"	**6K407**	✓
	1725	56HZ	Manual	115/208-230	B	13.4/6.8-6.7	1.25	11½"	**6K424**	✓	13.4/6.8-6.7	1.15	12⅞"	**6K418**	✓
	1725	56HZ	Auto	115/208-230	B	13.4/6.8-6.7	1.25	11½"	**5UKD4**	✓	14.4/7.2-7.2	1.15	12⅞"	**5UKF8**	✓
	1725	143T	None	115/208-230	B	—	—	—	—		13.4/6.8-6.7	1.15	12⅞"	**6K827**	✓
1½	3485	143T	None	115/208-230	B	—	—	—	—		14.2/7.7-7.1	1.00	12⅞"	**3K300**	*✓
	3450	56H	None	115/208-230	B	18.8/9.7-9.4	1.15	11"	**5UKD8**	✓	14.5/8.0-7.4	1.00	13¹⁄₁₆"	**5UKF9**	*✓
	3450	56H	Manual	115/208-230	B	18.8/9.7-9.4	1.15	11"	**5UKD6**	✓	14.5/8.0-7.4	1.00	13¹⁄₁₆"	**6K338**	*✓
	3450	56H	Auto	115/208-230	B	18.8/9.7-9.4	1.15	11"	**5UKD7**	✓	14.2/7.7-7.1	1.00	12⅞"	**6XJ53**	*✓
	3450	143T	None	115/208-230	B	18.8/9.7-9.4	1.15	11"	**6K630**	✓	—	—	—	—	
	1740	182/4	None	115/230	F	—	—	—	—		19.0/9.5	1.00	13½"	**5K486**	✓
	1725	56H	None	115/208-230	B	18.0/9.5-9.0	1.15	12¹⁄₁₆"	**5K923**	*✓	15.2/8.2-7.6	1.15	13¹⁵⁄₁₆"	**1K066**	*✓
	1725	56H	Manual	115/208-230	B	13.2/7.2-6.6	1.15	12"	**5UKD9**	*✓	15.2/8.2-7.6	1.15	13¹³⁄₁₆"	**5K641**	*✓
	1725	56H	Auto	115/208-230	B	18.0/9.3-9.0	1.15	12⁷⁄₁₆"	**6K305**	✓	14.4/8.0-7.2	1.15	13-14/16"	**5K565**	*✓
	1725	56HZ	None	115/208-230	B	18.0/9.3-9.0	1.15	12½"	**6K272**	✓	15.2/8.2-7.6	1.15	13¹³⁄₁₆"	**6K419**	*✓
	1725	56HZ	Manual	115/208-230	B	18.0/9.3-9.0	1.15	12½"	**6K422**	✓	15.2/8.2-7.6	1.15	13⅞"	**6K420**	*✓
	1725	56HZ	Auto	115/208-230	B	21.2/10.5-10.6	1.15	12½"	**5UKE0**	✓	14.0/7.5-7.0	1.15	13¾"	**5UKG0**	*✓
	1725	145T	None	115/208-230	B	18.0/4.3-4.0	1.15	12½"	**6K826**	*✓	15.2/8.2-7.6	1.15	13⅞"	**6K828**	*✓
	1725	182/4	None	115/230	F	19.0/9.5	1.20	12¼"	**5K481**	✓	—	—	—	—	
2	3490	145T	None	115/208-230	B	19.2/10.5-9.6	1.15	11½"	**6K631**	*✓	—	—	—	—	
	3450	56H	None	115/208-230	B	16.6/9.1-8.3	1.15	12"	**5UKE4**	*✓	18.0/10.0-9.0	1.00	13⅝"	**5UKG4**	*✓
	3450	56H	Manual	115/208-230	B	19.2/10.5-9.6	1.15	11½"	**6K652**	*✓	18.0/10.0-9.0	1.00	13⅝"	**5K961**	*✓
	3450	56H	Auto	115/208-230	B	16.6/9.1-8.3	1.15	12"	**5UKE2**	*✓	18.0/10.0-9.0	1.00	13⅝"	**5UKG3**	*✓
	3450	145T	None	115/208-230	B	—	—	—	—		18.0/10.0-9.0	1.00	13⅝"	**3K344**	*✓
	1740	182T	None	115/230	F	24.8/12.4	1.15	13¼"	**5K953**	✓	22.4/11.2	1.00	14½"	**5K966**	*✓
	1740	213	None	115/230	F	24.8/12.4	1.20	14½"	**5K482**	✓	25.2/12.6	1.00	16¼"	**5K487**	*✓
	1725	56H	None	115/208-230	B	21.0/11.3-10.5	1.15	13⁷⁄₁₆"	**1K064**	*✓	18.8/10.2-9.4	1.00	14⅞"	**1K067**	*✓
	1725	56H	Auto	115/208-230	B	21.0/11.3-10.5	1.15	13½"	**4K107**	*✓	—	—	—	—	
	1725	56H	Auto	115/230	B	—	—	—	—		18.8/9.4	1.00	14⅞"	**5UKG5**	*✓
	1725	56HZ	None	115/208-230	B	20.2/10.7-10.1	1.15	13½"	**6K393**	*✓	18.8/10.2-9.4	1.00	14⅞"	**5UKG7**	*✓
	1725	56HZ	Auto	115/208-230	B	21.0/11.3-10.5	1.15	13½"	**6XJ65**	*✓	—	—	—	—	
	1725	56HZ	Auto	115/230	B	—	—	—	—		18.8/9.4	1.00	14⅞"	**5UKG6**	*✓
3	3500	145T	None	230	F	—	—	—	—		13.0	1.00	14⁷⁄₁₆"	**5UKG8**	*✓
	3500	182T	None	115/230	F	32.0/16.0	1.15	14⅝"	**6K632**	✓	—	—	—	—	
	3480	145T	None	115/230	B	25.0/12.5	1.15	12½"	**5JE13**	*✓	—	—	—	—	
	3450	182T	None	115/230	F	—	—	—	—		32.0/16.0	1.00	15"	**6K145**	✓
	1740	184T	None	115/230	F	33.8/16.9	1.15	14¼"	**5K675**	*✓	30.0/15.0	1.00	15"	**5K967**	*✓
	1740	215	None	115/230	F	33.8/16.9	1.15	14½"	**5K483**	*✓	30.0/15.0	1.00	16⅛"	**5UKG9**	*✓
5	3500	184T	None	230	F	—	—	—	—		19.8	1.15	17"	**6K146**	*✓
	3450	184T	None	230	F	21.2	1.15	15¼"	**6K633**	*✓	—	—	—	—	
	1740	184T	None	230	F	21.0	1.15	14⅝"	**6K854**	*✓	20.5	1.00	17⁷⁄₁₆"	**2TJ12**	*✓
	1740	213T	None	230	F	21.0	1.15	15⅜"	**5K676**	*✓	20.5	1.00	18⅛"	**5K968**	*✓
7½	3470	213T	None	230	F	37.0	1.15	16⁹⁄₁₆"	**6K634**	✓	—	—	—	—	
	3450	213T	None	230	F	—	—	—	—		32.0	1.00	19"	**6K179**	*✓
	1740	215T	None	230	F	36.0	1.15	17¼"	**5K677**	*✓	32.0	1.00	20¼"	**6K176**	*✓
10	3500	215T	None	230	F	—	—	—	—		41.5	1.00	20¼"	**5UKH0**	*✓
	3480	215T	None	230	F	46.0	1.15	18¹⁄₁₆"	**6K628**	*✓	—	—	—	—	
	1740	215T	None	230	F	43.0	1.15	18⅞"	**6K100**	*✓	—	—	—	—	
	1725	215T	None	230	F	—	—	—	—		39.5	1.00	21½"	**5UKH1**	*✓

** Capacitor-start, capacitor-run. † Totally enclosed nonventilated.*

Capacitor-Start Open Dripproof and Totally Enclosed Face-Mount Motors

Dayton marathon Motors

- Max. ambient temp.: 40°C
- Rotation: CW/CCW

Open dripproof motors are for use in clean, dry, and nonhazardous applications including speed reducers, pumps, blowers, conveyors, and other equipment that mounts directly to a NEMA C-face motor. Totally enclosed motors are also suitable for dusty, dirty, and nonhazardous environments. All motors are UL Recognized and CSA Certified.

HP	Nameplate RPM	Frame	Thermal Protection	Voltage	Full Load Amps	Service Factor	Bearings	Ins. Class	Foot-notes	Brand	Item No.	
Open Dripproof, Face-Mount												
¼	1725	56C	None	115/208-230	5.0/2.3-2.5	1.35	Ball	B	—	Dayton	**6K974**	✓
	1725	56C	Auto	115/208-230	5.0/2.3-2.5	1.35	Ball	B	—	Dayton	**6XJ21**	✓
⅓	1725	56C	None	115/208-230	6.0/3.2-3.0	1.35	Ball	B	—	Dayton	**5K339**	✓
	1725	56C	Auto	115/208-230	6.4/3.0-3.2	1.35	Ball	B	—	Dayton	**6K005**	✓
½	1725	56C	None	115/208-230	7.8/3.8-3.9	1.25	Ball	B	—	Dayton	**5K340**	✓
	1725	56C	Auto	115/208-230	8.6/4.3-4.3	1.25	Ball	B	—	Dayton	**6XJ20**	✓
¾	1725	56C	None	115/208-230	12.0/5.8-6.0	1.25	Ball	B	24	Dayton	**5K435**	✓
	1725	56C	Auto	115/208-230	12.0/5.8-6.0	1.25	Ball	B	—	Dayton	**6XJ27**	✓
1	1725	56C	None	115/208-230	12.2/6.0-6.1	1.15	Ball	B	—	Dayton	**5K673**	✓
	1725	56C	Auto	115/208-230	13.4/6.8-6.7	1.15	Ball	B	—	Dayton	**6XJ29**	✓
1½	1725	56C	None	115/208-230	18.0/9.3-9.0	1.15	Ball	B	—	Dayton	**1K073**	✓
2	1725	56C	None	115/208-230	21.0/11.3-10.5	1.15	Ball	B	24	Dayton	**1K074**	✓
Open Dripproof, Face/Base-Mount												
⅓	1725	56C	None	115/208-230	6.4/3.0-3.2	1.35	Ball	B	—	Dayton	**5K109**	✓
½	1725	56C	None	115/208-230	8.6/4.1-4.3	1.25	Ball	B	—	Dayton	**5K110**	✓
¾	1725	56C	None	115/208-230	11.0/5.5-5.5	1.25	Ball	B	24	Dayton	**1K084**	✓
1	1730	145TC	None	115/208-230	13.4/6.8-6.7	1.15	Ball	B	51	Dayton	**4K811**	✓
1½	1725	145TC	None	115/208-230	18.0/9.3-9.0	1.15	Ball	B	51	Dayton	**4K812**	✓
3	1740	184TC	None	115/230	33.8/16.9	1.15	Ball	F	51	Dayton	**4K815**	✓
Totally Enclosed Fan-Cooled, Face-Mount												
	1725	42CZ	None	115/230	4.2/2.1	1.15	Ball	B	27,51	Dayton	**1K057**	✓
⅙	1725	56C	None	115/208-230	3.8/1.8-1.9	1.15	Ball	B	44,51	Dayton	**5GD53**	✓
	1140	56C	None	115/208-230	3.8/1.8-1.9	1.15	Ball	B	51	Dayton	**5GD54**	✓
	1725	42CZ	None	115/230	5.8/2.9	1.15	Ball	B	27,51	Dayton	**1K058**	✓
¼	1725	56C	None	115/208-230	5.2/2.5-2.6	1.35	Ball	B	51	Dayton	**6K975**	✓
	1140	56C	None	115/208-230	6.8/3.1-3.4	1.00	Ball	B	51	Dayton	**6XJ44**	✓
	3450	56C	Auto	115/208-230	4.8/2.6-2.5	1.00	Ball	B	44,51	Dayton	**6K181**	✓
⅓	1725	42CZ	None	115/230	7.0/3.5	1.00	Ball	B	27,51	Dayton	**1K059**	✓
	1725	56C	None	115/208-230	7.8/3.9-3.9	1.15	Ball	B	51	Dayton	**5K341**	✓
	3450	56C	Auto	115/208-230	8.4/4.0-4.2	1.00	Ball	B	51	Dayton	**6K182**	✓
	3450	56C	Auto	115/230	7.4/3.7	1.15	Ball	B	—	Marathon	**2K376**	✓
½	1725	56C	None	115/208-230	7.7/3.9-3.9	1.15	Ball	B	51	Dayton	**6K342**	✓
	1725	56C	Auto	115/208-230	8.0/4.0-4.0	1.15	Ball	B	51	Dayton	**5GD57**	✓
	1725	56C	Auto	115/230	8.6/4.3	1.15	Ball	B	—	Marathon	**2K381**	✓
	1140	56C	None	115/208-230	9.6/4.7-4.8	1.00	Ball	B	24,51	Dayton	**5GD58**	✓
	3450	56C	Auto	115/208-230	10.6/5.3-5.3	1.00	Ball	B	51	Dayton	**6K831**	✓
¾	3450	56C	Auto	115/230	9.8/4.9	1.0	Ball	B	—	Marathon	**2K388**	✓
	1725	56C	None	115/208-230	11.0/5.4-5.5	1.15	Ball	B	51	Dayton	**6K436**	✓
	1725	56C	Auto	115/208-230	11.0/5.4-5.5	1.15	Ball	B	51	Dayton	**5GD60**	✓
1	3450	56C	Auto	115/208-230	11.8/6.3-5.9	1.00	Ball	B	51	Dayton	**6K197**	✓
	1725	56C	None	115/230	10.0/5.0	1.15	Ball	B	51	Dayton	**6K674**	✓
	3450	56C	Auto	115/208-230	14.2/7.7-7.1	1.00	Ball	B	24,51	Dayton	**6K832**	✓
1½	3450	56C	Auto	115/230	16.4/8.2	1.0	Ball	B	—	Marathon	**2K389**	✓
	1725	56C	None	115/208-230	15.2/8.2-7.6	1.15	Ball	B	24,51	Dayton	**6K702**	✓
	3450	56C	None	115/208-230	18.0/10.0-9.0	1.15	Ball	B	24,51	Dayton	**5GD67**	✓
2	3450	56C	Auto	115/230	17.8/8.9	1.0	Ball	B	—	Marathon	**2K383**	✓
	3450	143TC	None	115/208-230	18.0/10.0-9.0	1.00	Ball	B	24,51	Dayton	**5GD68**	✓
	1725	56C	None	115/208-230	18.8/10.2-9.4	1.00	Ball	B	24,51	Dayton	**1K075**	✓
Totally Enclosed Fan-Cooled, Face/Base-Mount												
⅓	3450	56C	Auto	115/208-230	7.0/3.2-3.5	1.00	Ball	B	51	Dayton	**1K076**	✓
	1725	56C	None	115/208-230	6.0/3.0-3.0	1.00	Ball	B	51	Dayton	**1K077**	✓
½	3450	56C	Auto	115/208-230	8.4/4.0-4.2	1.00	Ball	B	51	Dayton	**1K078**	✓
	1755	56C	None	115/208-230	8.0/4.0-4.0	1.15	Ball	B	51	Dayton	**1K079**	✓
¾	3450	56C	Auto	115/208-230	10.6/5.3-5.3	1.00	Ball	B	51	Dayton	**1K080**	✓
	1725	56C	None	115/208-230	11.0/5.4-5.5	1.15	Ball	B	51	Dayton	**1K081**	✓
	3450	56C	None	115/208-230	11.2/5.7-5.6	1.00	Ball	B	51	Dayton	**3K348**	✓
1	3450	56C	Auto	115/230	13.0/6.5	1.0	Ball	B	—	Marathon	**2K380**	✓
	1725	56HC	None	115/208-230	10.0/5.3-5.0	1.15	Ball	B	51	Dayton	**6K045**	✓
1½	1725	56HC	None	115/208-230	15.2/8.2-7.6	1.00	Ball	B	24,51	Dayton	**1K082**	✓

Footnotes: 24—Capacitor-start, capacitor-run. 27—42CZ frame has ½" x 1⅛" shaft with key. 44—Totally enclosed nonventilated. 51—Supplied with conduit box.

ODP, Face-Mount

TEFC, Face/ Base-Mount

Capacitor-Start, Capacitor-Run and Totally Enclosed Face-Mount Motors

marathon Motors

- Max. ambient temp.: 40°C
- Rotation: CW/CCW
- Insulation: Class B
- 60/50 Hz
- Include side-mount conduit box

Use in applications including speed reducers, pumps, blowers, conveyors, and other equipment that mounts directly to a NEMA C-face motor. Totally enclosed motors are suitable for dusty, dirty, and nonhazardous environments. All are UL Recognized and CSA Certified.

HP	Nameplate RPM	Frame	Thermal Protection	Voltage	Full Load Amps	Service Factor	Mfr. Model	Item No.	
Face-Mount									
⅓	1725/1425	56C	None	100-120/200-240	4.0-3.8/2.0-1.9	1.35	E256	**1K125**	✓
½	1725/1425	56C	None	100-120/200-240	5.8-5.6/2.9-2.8	1.25	E265	**1K128**	✓
1	1725/1425	56C	None	100-120/200-240	11.8-11.4/15.9-5.7	1.15	EG283	**1K134**	✓
Face/Base-Mount									
⅓	1725/1425	56C	Manual	100-120/200-240	4.0-3.8/2.0-1.9	1.35	E255	**1K124**	✓
	1725/1425	56C	Auto	100-120/200-240	4.0-3.8/2.0-1.9	1.35	E257	**1K126**	✓
½	1725/1425	56C	Auto	100-120/200-240	5.8-5.6/2.9-2.8	1.25	E266	**1K129**	✓
¾	1725/1425	56C	Auto	100-120/200-240	10.8-10.0/5.4-5.0	1.25	E275	**1K132**	✓
1	1725/1425	56C	Manual	100-120/200-240	11.8-11.4/15.9-5.7	1.15	E282	**1K133**	✓
	1725/1425	56C	Auto	100-120/200-240	11.8-11.4/15.9-5.7	1.15	E284	**1K135**	✓

No. 1K132

IMPORTANT MOTOR INFORMATION: Refer to pages 3 and 5-7 for motor selection guidelines, standardized motor dimensions, NEMA and IEC guidelines, motor terminology, and energy legislation data.

No. 20CL62

Dayton

2015 SMALL MOTOR LEGISLATION

Capacitor-Start, Capacitor-Run Open Dripproof Motors

- Bearings: ball
- Insulation: Class B (except F on Nos. 30PT67, 30PT79, 30PT86, 30PT87, and 30PT91)
- Max. ambient temp.: 40°C
- Rotation: CW/CCW
- Frame material: steel

These motors comply with 2015 efficiency legislation for small-frame motors. Please see page 6 for more information. UL Recognized and CSA Certified.

HP	Nameplate RPM	Frame	Thermal Protection	Voltage	Full Load Amps	Service Factor	Nom. Efficiency	Item No.
Rigid Base-Mount								
	1725	48	Auto	115/208-230	2.4/1.2-1.2	1.35	68.5%	**20CL63** ✓
¼	1725	56	None	115/208-230	2.4/1.2-1.2	1.35	68.5%	**20VD11** ✓
	1725	56	Auto	115/208-230	2.4/1.2-1.2	1.35	68.5%	**20VD04** ✓
	1140	56	None	115/208-230	2.4/1.2-1.2	1.35	62.2%	**20VD16** ✓
	3450	48	None	115/208-230	3.0/1.6-1.5	1.35	70.5%	**20CL58** ✓
	3450	48	Auto	115/208-230	3.0/1.6-1.5	1.35	70.5%	**20CL57** ✓
	1725	48	None	115/208-230	3.8/1.9-1.9	1.35	72.4%	**20CL61** ✓
⅓	1725	48	Auto	115/208-230	3.8/1.9-1.9	1.35	72.4%	**20CL64** ✓
	1725	56	None	115/208-230	3.8/1.9-1.9	1.35	72.4%	**20VD05** ✓
	1725	56	Manual	115/208-230	3.8/1.9-1.9	1.35	72.4%	**20VD09** ✓
	1725	56	Auto	115/208-230	3.8/1.9-1.9	1.35	72.4%	**20VD07** ✓
	1140	56	None	115/208-230	3.4/1.8-1.7	1.35	66.6%	**31TR95** ✓
	3450	48	None	115/208-230	4.4/2.4-2.2	1.25	72.4%	**20CL54** ✓
	3450	48	Manual	115/208-230	4.4/2.4-2.2	1.25	72.4%	**20CL62** ✓
	3450	48	Auto	115/208-230	4.4/2.4-2.2	1.25	72.4%	**20CL53** ✓
	3450	56	None	115/208-230	4.4/2.4-2.2	1.25	72.4%	**20VD19** ✓
	3450	56	Manual	115/208-230	4.4/2.4-2.2	1.25	72.4%	**20VD18** ✓
½	3450	56	Auto	115/208-230	4.4/2.4-2.2	1.25	72.4%	**20VD17** ✓
	1725	48	None	115/208-230	4.6/2.4-2.3	1.25	76.2%	**20CL60** ✓
	1725	48	Auto	115/208-230	4.6/2.4-2.3	1.25	76.2%	**20CL56** ✓
	1725	56	None	115/208-230	4.6/2.4-2.3	1.25	76.2%	**20VD06** ✓
	1725	56	Manual	115/208-230	4.6/2.4-2.3	1.25	76.2%	**20VD10** ✓
	1725	56	Auto	115/208-230	4.6/2.4-2.3	1.25	76.2%	**20VD08** ✓
	1140	56	None	115/208-230	5.6/3.0-2.8	1.25	76.2%	**31TR96** ✓
	3450	48	None	115/208-230	7.2/4.0-3.6	1.25	76.2%	**20CL55** ✓
	3450	48	Auto	115/208-230	7.2/4.0-3.6	1.25	76.2%	**20CL59** ✓
	3450	56	None	115/208-230	7.2/4.0-3.6	1.25	76.2%	**20VD20** ✓
¾	3450	56	Auto	115/208-230	7.2/4.0-3.6	1.25	76.2%	**20VD15** ✓
	1725	56	None	115/208-230	6.6/3.5-3.3	1.25	81.8%	**31TR72** ✓
	1725	56	Manual	115/208-230	6.6/3.5-3.3	1.25	81.8%	**31TR74** ✓
	1725	56	Auto	115/208-230	6.6/3.5-3.3	1.25	81.8%	**31TR73** ✓
	1140	56H	None	115/208-230	6.7/3.7-3.35	1.15	80.2%	**31TT06** ✓
	3450	56	None	115/208-230	8.8/4.9-4.4	1.25	80.4%	**31TT03** ✓
	3450	56	Manual	115/208-230	8.8/4.9-4.4	1.25	80.4%	**31TT04** ✓
	3450	56	Auto	115/208-230	8.8/4.9-4.4	1.25	80.4%	**31TR94** ✓
	1725	56H	None	115/208-230	8.4/4.6-4.2	1.15	82.6%	**31TR75** ✓
1	1725	56H	Manual	115/208-230	8.4/4.6-4.2	1.15	82.6%	**31TR87** ✓
	1725	56H	Auto	115/208-230	8.4/4.6-4.2	1.15	82.6%	**31TR80** ✓
	1725	56HZ	None	115/208-230	8.4/4.6-4.2	1.15	82.6%	**31TR81** ✓
	1725	56HZ	Manual	115/208-230	8.4/4.6-4.2	1.15	82.6%	**31TR86** ✓
	1725	56HZ	Auto	115/208-230	8.4/4.6-4.2	1.15	82.6%	**31TR77** ✓
	3450	56H	None	115/208-230	13.6/7.0-6.8	1.15	81.5%	**31TR99** ✓
	3450	56H	Manual	115/208-230	13.6/7.0-6.8	1.15	81.5%	**31TR97** ✓
	3450	56H	Auto	115/208-230	13.6/7.0-6.8	1.15	81.5%	**31TR98** ✓
	1725	56H	None	115/208-230	12.6/6.9-6.3	1.15	83.8%	**31TR76** ✓
1½	1725	56H	Manual	115/208-230	12.6/6.9-6.3	1.15	83.8%	**31TR78** ✓
	1725	56H	Auto	115/208-230	12.6/6.9-6.3	1.15	83.8%	**31TR83** ✓
	1725	56HZ	None	115/208-230	12.6/6.9-6.3	1.15	83.8%	**31TR82** ✓
	1725	56HZ	Manual	115/208-230	12.6/6.9-6.3	1.15	83.8%	**31TR85** ✓
	1725	56HZ	Auto	115/208-230	12.6/6.9-6.3	1.15	83.8%	**31TR79** ✓
	3450	56H	None	115/208-230	17.8/9.2-8.9	1.15	82.9%	**31TT02** ✓
	3450	56H	Manual	115/208-230	17.8/9.2-8.9	1.15	82.9%	**31TT05** ✓
	3450	56H	Auto	115/208-230	17.8/9.2-8.9	1.15	82.9%	**31TT01** ✓
2	1725	56H	None	115/208-230	17.6/9.5-8.8	1.15	84.5%	**31TR70** ✓
	1725	56H	Auto	115/208-230	17.6/9.5-8.8	1.15	84.8%	**31TR71** ✓
	1725	56HZ	None	115/208-230	17.6/9.5-8.8	1.15	84.5%	**31TR84** ✓
	1725	56HZ	Auto	115/208-230	17.6/9.5-8.8	1.15	84.5%	**31TR88** ✓

HP	Nameplate RPM	Frame	Thermal Protection	Voltage	Full Load Amps	Service Factor	Nom. Efficiency	Item No.
Cradle Base-Mount								
	3450	48Z	Auto	115/230	1.3/2.7	1.35	66.6%	**30PT45** ✓
	1725	48Z	None	115/230	3.1/1.5	1.35	68.5%	**30PT49** ✓
	1725	48Z	Auto	115/230	3.1/1.5	1.35	68.5%	**30PT46** ✓
¼	1725	56	None	115/230	3.1/1.5	1.35	68.5%	**30PT48** ✓
	1725	56	Auto	115/230	3.1/1.5	1.35	68.5%	**30PT47** ✓
	1140	56	None	115/230	3.7/1.9	1.35	62.2%	**30PT51** ✓
	1140	56	Auto	115/230	3.7/1.9	1.35	62.2%	**30PT50** ✓
	3450	48Z	Auto	115/230	3.7/1.8	1.35	70.5%	**30PT52** ✓
	1725	48Z	None	115/230	3.8/1.9	1.35	72.4%	**30PT56** ✓
	1725	48Z	Auto	115/230	3.8/1.9	1.35	72.4%	**30PT55** ✓
⅓	1725	56	None	115/230	3.8/1.9	1.35	72.4%	**30PT53** ✓
	1725	56	Manual	115/230	3.8/1.9	1.35	72.4%	**30PT57** ✓
	1725	56	Auto	115/230	3.9/1.9	1.35	72.4%	**30PT54** ✓
	1140	56	None	115/230	5.2/2.6	1.35	66.6%	**30PT58** ✓
	1140	56	Auto	115/230	5.2/2.6	1.35	66.6%	**30PT59** ✓
	3450	48Z	None	115/230	5.0/2.5	1.25	72.4%	**30PT61** ✓
	3450	56	Auto	115/230	5.0/2.5	1.25	72.4%	**30PT60** ✓
	1725	48Z	None	115/230	6.4/3.2	1.25	76.2%	**30PT64** ✓
	1725	48Z	Auto	115/230	6.4/3.2	1.25	76.2%	**30PT65** ✓
½	1725	56	None	115/230	6.4/3.2	1.25	76.2%	**30PT63** ✓
	1725	56	Auto	115/230	6.4/3.2	1.25	76.2%	**30PT62** ✓
	1725	56H	Auto	115/230	6.4/3.2	1.25	76.2%	**30PT66** ✓
	1140	56	None	115/230	4.8/2.4	1.25	76.2%	**30PT67** ✓
	1140	56	Auto	115/230	4.8/2.4	1.25	76.2%	**30PT68** ✓
	3450	56	None	115/230	7.0/3.6	1.15	76.2%	**30PT90** ✓
	3450	56	Auto	115/230	7.0/3.6	1.15	76.2%	**30PT89** ✓
	1725	56	None	115/230	7.0/3.5	1.25	81.8%	**30PT70** ✓
¾	1725	56	Auto	115/230	7.0/3.5	1.25	81.8%	**30PT69** ✓
	1725	56H	Auto	115/230	7.0/3.5	1.25	81.8%	**30PT71** ✓
	1140	56	None	115/230	7.4/3.7	1.15	80.2%	**30PT72** ✓
	1140	56	Auto	115/230	7.4/3.7	1.15	80.2%	**30PT73** ✓
	3450	56	None	115/230	9.3/4.3	1.25	80.4%	**30PT75** ✓
	3450	56	Auto	115/230	9.3/4.3	1.25	80.4%	**30PT74** ✓
	1725	56	None	115/230	8.8/4.4	1.15	82.6%	**30PT76** ✓
1	1725	56	Auto	115/230	8.8/4.4	1.15	82.6%	**30PT77** ✓
	1725	56H	Auto	115/230	8.8/4.4	1.15	82.6%	**30PT78** ✓
	1140	56	None	115/230	8.9/4.6	1.15	81.1%	**30PT91** ✓
	1140	56	Auto	115/230	8.9/4.6	1.15	81.1%	**30PT79** ✓
	3450	56	None	115/230	13.3/6.7	1.15	81.5%	**30PT88** ✓
	3450	56	Auto	115/230	13.3/6.7	1.15	81.5%	**30PT80** ✓
1½	1725	56	None	115/230	13.4/6.7	1.15	83.8%	**30PT81** ✓
	1725	56	Auto	115/230	13.4/6.7	1.15	83.8%	**30PT82** ✓
	1725	56H	Auto	115/230	13.4/6.7	1.15	83.8%	**30PT83** ✓
	3450	56	None	115/230	17.3/8.7	1.15	82.9%	**30PT85** ✓
2	3450	56H	Auto	115/230	17.3/8.7	1.15	82.9%	**30PT84** ✓
	1725	56H	None	115/230	18.0/9.0	1.15	84.5%	**30PT87** ✓
	1725	56H	Auto	115/230	18.0/9.0	1.15	84.5%	**30PT86** ✓

HP	Nameplate RPM	Frame	Thermal Protection	Voltage	Full Load Amps	Service Factor	Nom. Efficiency	Overall Length	Foot-notes	Item No.	
1-Phase, Face-Mount											
¼	1725	56C	None	115/230	3.1/1.5	1.35	68.5%	9 15/16"	—	**30PT38**	✓
	1725	56C	Auto	115/208-230	2.4/1.2-1.2	1.35	68.5%	10 1/16"	—	**20VD14**	✓
⅓	1725	56C	None	115/230	3.8/1.9	1.35	72.4%	9 15/16"	—	**30PT39**	✓
	1725	56C	Auto	115/208-230	3.8/1.9-1.9	1.35	72.4%	10 15/16"	—	**20VD12**	✓
½	1725	56C	None	115/230	6.4/3.2	1.25	76.2%	9 15/16"	—	**30PT40**	✓
	1725	56C	Auto	115/208-230	4.6/2.4-2.3	1.25	76.2%	11 7/16"	—	**20VD13**	✓
¾	1725	56C	None	115/230	7.0/3.5	1.25	81.8%	11 15/16"	—	**30PT41**	✓
	1725	56C	Auto	115/208-230	6.6/3.5-3.3	1.25	81.8%	13"	—	**31TR92**	✓
1	1725	56C	None	115/208-230	8.4/4.6-4.2	1.15	82.6%	13 3/32"	—	**31TR91**	✓
	1725	56C	Auto	115/208-230	8.4/4.6-4.2	1.15	82.6%	13"	—	**31TR93**	✓
1½	1725	56C	None	115/230	13.4/6.7	1.15	83.8%	12 15/16"	—	**30PT42**	✓
2	1725	56C	None	115/208-230	17.6/9.5-8.8	1.15	84.5%	14"	—	**31TR89**	✓
1-Phase, Face/Base-Mount											
⅓	1725	56C	None	115/230	3.8/1.9	1.35	72.4%	9 15/16"	—	**30PT43**	✓
½	1725	56C	None	115/230	6.4/3.2	1.25	76.2%	9 15/16"	—	**30PT44**	✓
¾	1725	56C	None	115/208-230	6.6/3.5-3.3	1.25	81.8%	13 3/32"	—	**31TR90**	✓
3-Phase, Face-Mount											
¼	3520	56C	None	208-230/460	0.88-0.80/0.40	1.15	72.0%	10 5/16"	15,16	**31LH36**	✓
	1765	56C	None	208-230/460	1.2-1.1/0.53	1.15	69.5%	9 15/16"	15,16	**31LH37**	✓
	1160	56C	None	208-230/460	1.2-1.1/0.55	1.35	67.5%	10 5/16"	15,16	**31LH38**	✓
⅓	3510	56C	None	208-230/460	1.2-1.1/0.60	1.15	72.0%	10 5/16"	15,16	**31LH39**	✓
	1765	56C	None	208-230/460	1.5-1.3/0.68	1.15	73.4%	10 5/16"	15,16	**31LH40**	✓
	1160	56C	None	208-230/460	1.7-1.5/0.76	1.35	71.4%	10 5/16"	15,16	**31LH41**	✓
½	3490	56C	None	208-230/460	1.8-1.6/0.81	1.15	73.4%	10 5/16"	15,16	**31LH42**	✓
	1765	56C	None	208-230/460	1.9-1.7/0.86	1.15	78.2%	10 1/16"	15,16	**31LH43**	✓
	1155	56C	None	208-230/460	2.2-2.0/0.99	1.15	72.0%	10 1/16"	15,16	**31LH44**	✓
¾	3485	56C	None	208-230/460	2.5-2.3/1.1	1.15	76.8%	10 1/16"	15,16	**31LH45**	✓
	1760	56C	None	208-230/460	2.5-2.3/1.2	1.15	81.1%	11⅛"	15,16	**31LH46**	✓
	1150	56C	None	208-230/460	2.9-2.6/1.3	1.15	81.7%	11½"	15,16	**31LH47**	✓
1	3470	56C	None	208-230/460	3.3-3.0/1.5	1.15	77.0%	10 1/16"	15,16	**31LH48**	✓
	1760	56C	None	208-230/460	3.5-3.1/1.6	1.15	83.5%	11½"	15,16	**31LH49**	✓
1½	3510	56C	None	208-230/460	4.1-3.7/1.9	1.15	84.0%	10 1/16"	15,16	**31LH50**	✓
	1760	56C	None	208-230/460	4.7-4.3/2.1	1.15	86.5%	13 1/16"	15,16	**31LH51**	✓
2	1740	56C	None	208-230/460	6.0-5.4/2.7	1.15	86.5%	13 1/16"	15,16	**31LH52**	✓
3-Phase, Face/Base-Mount											
¼	3520	56C	None	208-230/460	0.88-0.80/0.40	1.15	72.0%	10 5/16"	15,16	**31LH53**	✓
	1720	56C	None	208-230/460	1.0-1.0/0.50	1.15	69.5%	9 15/16"	15,16	**31LH54**	✓
	1160	56C	None	208-230/460	1.2-1.1/0.55	1.35	67.5%	10 5/16"	15,16	**31LH55**	✓
⅓	3510	56C	None	208-230/460	1.2-1.1/0.60	1.15	72.0%	10 5/16"	15,16	**31LH56**	✓
	1765	56C	None	208-230/460	1.5-1.3/0.68	1.15	73.4%	10 5/16"	15,16	**31LH57**	✓
	1140	56C	None	208-230/460	1.5-1.5/0.70	1.15	71.4%	10 5/16"	15,16	**31LH58**	✓
½	3490	56C	None	208-230/460	1.8-1.6/0.81	1.15	73.4%	10 5/16"	15,16	**31LH59**	✓
	1765	56C	None	208-230/460	1.9-1.7/0.86	1.15	78.2%	10 1/16"	15,16	**31LH60**	✓
	1155	56C	None	208-230/460	2.2-2.0/0.99	1.15	75.3%	10 1/16"	15,16	**31LH61**	✓
¾	3485	56C	None	208-230/460	2.5-2.3/1.1	1.15	76.8%	10 1/16"	15,16	**31LH62**	✓
	1760	56C	None	208-230/460	2.5-2.3/1.2	1.15	81.1%	11⅛"	15,16	**31LH63**	✓
	1160	56HC	None	208-230/460	2.79 - 2.52/1.26	1.15	81.7%	11½"	15,16	**31LH64**	✓
1	3470	56C	None	208-230/460	3.3-3.0/1.5	1.15	77.0%	10 1/16"	15,16	**31LH65**	✓
	1760	56HC	None	208-230/460	3.5-3.1/1.6	1.15	83.5%	11½"	15,16	**31LH66**	✓
1½	3510	56C	None	208-230/460	4.1-3.7/1.9	1.15	84.0%	10 1/16"	15,16	**31LH67**	✓
	1760	56HC	None	208-230/460	4.7-4.3/2.1	1.15	86.5%	13 1/16"	15,16	**31LH68**	✓
2	3510	56HC	None	208-230/460	5.4-4.8/2.4	1.15	85.5%	12 1/16"	15,16	**31LH69**	✓
	3510	56HC	None	208-230/460	5.4-4.8/2.4	1.15	85.5%	12 1/16"	15,16	**31LH70**	✓
	1740	56HC	None	208-230/460	6.0-5.4/2.7	1.15	86.5%	13 1/16"	15,16	**31LH71**	✓

Footnotes: 15—Usable on 200V at 1.0 SF. 16—Inverter-duty, meets NEMA MG1 Part 30; 20:1 variable and 10:1 constant torque.

No. 30PT38

Dayton 2015 SMALL MOTOR LEGISLATION

C-Face Open Dripproof Motors

- Motor type: 1-phase capacitor-start, capacitor-run or 3-phase
- Bearings: ball
- Insulation: Class B
- Max. ambient temp.: 40°C
- Rotation: CW/CCW

These motors comply with 2015 efficiency legislation for small-frame motors. Please see page 6 for more information. UL Recognized and CSA Certified.

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Service Factor	Nom. Efficiency	Ins. Class	Overall Length	Foot-notes	Item No.	
¼	1725	48	208-230/460	1.0-1.0/0.50	1.35	69.5%	B	10⅜"	5,10	**20CL67**	✓
	1725	56	208-230/460	1.1-1.0/0.55	1.35	69.5%	B	10¾"	5,10	**20VD21**	✓
	1140	56	208-230/460	1.2-1.2/0.60	1.35	67.5%	B	11 7/32"	5,10	**31TT09**	✓
⅓	3450	48	208-230/460	1.4-1.4/0.70	1.35	69.5%	B	9⅝"	5,10	**20CL65**	✓
	1725	48	208-230/460	1.2-1.2/0.60	1.35	73.4%	B	10⅞"	5,10	**20CL68**	✓
	1725	56	208-230/460	1.2-1.2/0.60	1.35	73.4%	B	11¼"	5,10	**20VD22**	✓
	1140	56	208-230/460	1.3-1.4/0.70	1.35	71.4%	B	11 31/32"	5,10	**31TT10**	✓
½	3450	48	208-230/460	1.7-1.8/0.90	1.25	73.4%	B	9 7/16"	5,10	**20CL66**	✓
	3450	56	208-230/460	1.7-1.8/0.90	1.25	73.4%	B	10"	5,10	**20VD23**	✓
	1725	56	208-230/460	1.7-1.7/0.85	1.25	78.2%	B	11 3/32"	5,10	**31TT08**	✓
	1725	56	208-230/460	1.7-1.7/0.85	1.25	78.2%	B	11 3/32"	5,12	**31TT17**	✓
	1140	56	208-230/460	2.6-2.8/1.4	1.25	75.3%	B	11 23/32"	5,10	**31TT11**	✓
¾	1725	56	208-230/460	2.6-2.5/1.3	1.25	81.1%	B	11 5/16"	5,10	**31TT14**	✓
	1725	56	208-230/460	2.6-2.5/1.3	1.25	81.1%	B	11 9/16"	5,10	**31TT18**	✓
	1140	56H	208-230/460	3.2-3.5/1.8	1.25	81.7%	B	14"	5,10	**31TT16**	✓
1	3450	56	208-230/460	3.0-3.0/1.5	1.15	77.0%	B	10 3/16"	5,10	**30PT92**	✓
	1760	56H	208-230/460	3.47-3.14/1.57	1.15	83.5%	F	11½"	15,16,20	**31LH31**	✓
	1725	56	208-230/460	3.0-3.0/1.5	1.15	83.5%	B	11 23/32"	5,10	**31TT12**	✓
	1725	56	208-230/460	3.0-3.0/1.5	1.15	83.5%	B	11 1/16"	5,10	**31TT19**	✓
	1725	56H	208-230/460	3.0-3.0/1.5	1.15	83.5%	B	11 1/16"	5,10	**31TT15**	✓
1½	3510	56H	208-230/460	4.5-4.1/2.1	1.15	84.0%	F	11⅞"	15,16,20	**31LH32**	✓
	3450	56	208-230/460	4.3-4.2/2.1	1.15	84.0%	B	11 3/16"	5,10	**30PT93**	✓
	1760	56H	208-230/460	4.64-4.2/2.1	1.15	86.5%	F	13 1/16"	15,16,20	**31LH33**	✓
	1725	56H	208-230/460	4.7-4.7/2.4	1.15	86.5%	B	13 7/16"	5,10	**31TT13**	✓
	1725	56H	208-230/460	4.7-4.7/2.4	1.15	86.5%	B	12 23/32"	5,10	**31TT20**	✓
2	3510	56H	208-230/460	5.9-5.3/2.7	1.15	85.5%	F	12 1/16"	15,16,20	**31LH34**	✓
	3450	56H	208-230/460	5.5-5.4/2.7	1.15	85.5%	B	12 1/16"	5,10	**31TT07**	✓
	1725	56H	208-230/460	6.2-6.0/3.0	1.15	86.5%	B	13 7/16"	5,10	**31TT21**	✓
	1725	56H	208-230/460	6.2-6.0/3.0	1.15	86.5%	B	13 7/16"	5,10	**31TT22**	✓
3	1735	56H	208-230/460	8.9-8.1/4.0	1.15	86.9%	F	13 1/16"	15,16,20	**31LH35**	✓

Footnotes: 5—50 Hz operation on 190/380V at 5/6 of 60 Hz HP and rpm at 1.0 SF. 10—Inverter-duty, meets NEMA MG 1 Part 30; 10:1 variable and 2:1 constant torque. 12—Inverter-duty, meets NEMA MG 1 Part 31; 10:1 variable and 4:1 constant torque. 15—Usable on 200V at 1.0 SF. 16—Inverter-duty, meets NEMA MG1 Part 30; 20:1 variable and 10:1 constant torque. 20—50 Hz operation at rated HP and voltage and 1.0 SF.

No. 20CL65

Dayton 2015 SMALL MOTOR LEGISLATION

3-Phase Open Dripproof Motors

- Mounting: rigid base
- Bearings: ball
- Thermal protection: none
- Insulation: Class B
- Max. ambient temp.: 40°C
- Rotation: CW/CCW

These motors comply with 2015 efficiency legislation for small-frame motors. Please see page 6 for more information. UL Recognized and CSA Certified.

For assistance with motor selection, see pages 3 and 5 to 7.

Cast-Iron Frame, Open Dripproof No. 2NKY8

Cast-Iron Frame, Open Dripproof No. 4GZD2

3-Phase Premium and Energy-Efficient Open Dripproof Motors

Dayton®

- Mounting: rigid base
- Bearings: ball
- Thermal protection: none
- Insulation: Class F, with Class B temperature rise for longer life
- Inverter rated, see table footnotes
- Max. ambient temp.: 40°C
- Rotation: CW/CCW
- Warranty: 48, 56, and 143-5T/56HZ, 1 yr.; 140T and above, 3 yr.

143-5T/56HZ frames have ⅞" x 2¼" shaft and base bolt-hole configuration to match 56, 56H, 143T, and 145T. Steel frame, except Nos. 4GZD2, 4GZD5, and 4GZD7 to 4GZE2 have cast-iron frame. All models are suitable for clean, dry, nonhazardous applications with pumps, ventilation equipment, machine tools, and other industrial equipment. UL Recognized and CSA Certified.

Note: Shaft grounding rings available on page 83.

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Service Factor	Nom. Efficiency	Ins. Class	Overall Length	Foot-notes	Item No.	
¼	1725	48	208-230/460	1.2-1.3/0.65	1.35	62.0%	B	9 5/16"	10	**6XH87**	✓
	1725	56	208-230/460	1.2-1.3/0.65	1.35	62.0%	B	9¾"	2,10	**2N101**	✓
	1140	56	208-230/460	1.3-1.5/0.75	1.35	64.0%	B	10¼"	2,10	**2N878**	✓
⅓	3450	48	208-230/460	1.4-1.4/0.70	1.35	68.0%	B	8⅝"	5,10	**3N851**	✓
	1725	48	208-230/460	1.5-1.6/0.80	1.35	68.66%	B	9 9/16"	10	**6XH88**	✓
	1725	56	208-230/460	1.7-2.0/1.0	1.35	65.6%	B	10"	2,10	**2N102**	✓
	1140	56	208-230/460	1.9-2.2/1.1	1.35	62.0%	B	9 15/16"	2,10	**2N879**	✓
½	3450	48	208-230/460	1.7-1.8/0.90	1.25	69.0%	B	8⅞"	5,10	**3N852**	✓
	3450	56	208-230/460	1.9-2.2/1.1	1.25	66.0%	B	10 1/16"	2,10	**3N590**	✓
	1725	56	208-230/460	2.3-2.2/1.1	1.25	62.7%	B	10⅜"	2,10	**2N103**	✓
	1725	56	208-230/460	1.9-1.9/0.90	1.25	66.2%	B	10⅜"	5,12	**3N641**	✓
	1140	56	208-230/460	2.9-2.7/1.3	1.25	68.0%	B	10 7/16"	2,10	**2N880**	✓
¾	1725	56	208-230/460	2.8-2.8/1.4	1.25	76.3%	B	10⅜"	5,10	**3N042**	✓
	1725	56	208-230/460	2.6-2.8/1.4	1.25	75.5%	B	11"	5,12	**3N642**	✓
	1140	56H	208-230/460	3.2-3.2/1.6	1.25	74.0%	B	12"	2,10	**3N316**	✓
1	3450	56	208-230/460	3.3-3.3/1.6	1.25	78.0%	B	10⅜"	2,10	**3N178**	✓
	1760	143-5T/56HZ	208-230/460	3.2-3.2/1.6	1.25	85.5%	F	12⅞"	5,10	**2NKX3**	✓
	1755	182/4	208-230/460	3.6-3.3/1.6	1.15	82.5%	F	13⅛"	2,10,15	**2N980**	✓
	1735	56H	208-230/460	3.2-2.9/1.4	1.15	82.5%	F	11"	2,10,15	**6VPE4**	✓
	1725	56	208-230/460	3.6-3.8/1.9	1.25	78.4%	B	10¾"	2,10	**3N012**	✓
	1725	56	208-230/460	3.4-3.4/1.7	1.15	76.5%	B	11½"	5,12	**3N643**	✓
	1725	56H	208-230/460	3.6-3.8/1.9	1.15	77.0%	B	12"	5,10	**3N043**	✓
	1170	143-5T/56HZ	208-230/460	3.8-3.8/1.9	1.25	82.5%	F	12⅜"	5,10	**2NKX5**	✓
	1170	182/4	208-230/460	4.7-4.3/2.1	1.15	80.0%	F	13⅛"	2,10,15	**2N988**	✓
1½	3490	143-5T/56HZ	208-230/460	4.4-4.0/2.0	1.25	85.5%	F	12⅞"	5,10	**2NKY4**	✓
	3475	182/4	208-230/460	4.4-4.0/2.0	1.15	82.5%	F	13⅛"	2,10,15	**2N995**	✓
	3465	56H	208-230/460	4.5-4.1/2.1	1.15	82.5%	F	11"	2,10,15	**6VPE5**	✓
	3450	56	208-230/460	4.6-4.3/2.2	1.15	75.5%	B	10¾"	2,10	**3N592**	✓
	1755	182/4	208-230/460	5.2-4.7/2.4	1.15	84.0%	F	13⅛"	2,10,15	**2N981**	✓
	1750	143-5T/56HZ	208-230/460	4.6-4.8/2.4	1.25	86.5%	F	12⅞"	5,10	**2NKX7**	✓
	1735	56H	208-230/460	4.4-4.0/2.0	1.15	84.0%	F	12"	2,10,15	**6VPE6**	✓
	1725	56H	208-230/460	5.0-4.8/2.4	1.15	80.5%	B	12"	5,10	**3N013**	✓
	1725	56H	208-230/460	4.6-4.8/2.4	1.15	80.0%	B	10 15/16"	5,12	**3N644**	✓
	1170	182/4	208-230/460	6.7-6.1/3.0	1.15	84.0%	F	13⅛"	2,10,15	**2N989**	✓
	1170	182/4T	208-230/460	6.4-6.0/3.0	1.15	86.5%	F	14⅜"	3,15,16	**4GYZ9**	✓
2	3490	143-5T/56HZ	208-230/460	5.2-4.8/2.4	1.25	85.5%	F	12⅞"	5,10	**2NKX9**	✓
	3475	56H	208-230/460	5.9-5.3/2.7	1.15	84.0%	F	12"	2,10,15	**6VPE7**	✓
	3475	182/4	208-230/460	5.7-5.2/2.6	1.15	84.0%	F	13⅛"	2,10,15	**2N996**	✓
	3450	56H	208-230/460	5.5-5.4/2.7	1.15	81.9%	B	12 15/16"	5,10	**10C898**	✓
	1750	182/4	208-230/460	6.8-6.2/3.1	1.15	84.0%	F	13⅛"	2,10,15	**2N982**	✓
	1745	143-5T/56HZ	208-230/460	6.0-5.8/2.9	1.25	86.5%	F	12⅞"	5,10	**2NKY2**	✓
	1725	56H	208-230/460	6.2-5.8/2.9	1.15	84.0%	F	12 15/16"	5,10	**3N645**	✓
	1725	56H	208-230/460	6.6-6.6/3.3	1.15	81.5%	B	12¾"	5,10	**3N693**	✓
	1170	213/5	208-230/460	6.8-6.2/3.1	1.15	85.5%	F	16 3/16"	2,10,15	**2N990**	✓
	1165	182/4T	208-230/460	8.1-7.5/3.8	1.15	87.5%	F	14⅜"	3,15,16	**4GZA1**	✓
3	3490	143-5T/56HZ	208-230/460	8.0-7.2/3.6	1.25	88.0%	F	14⅛"	5,10	**2NKY6**	✓
	3445	182/4	208-230/460	8.4-7.6/3.8	1.15	84.0%	F	13⅛"	2,10,15	**2N997**	✓
	1770	182/4T	208-230/460	8.4-8.0/4.0	1.25	89.5%	F	14⅛"	5,10	**2NKY8**	✓
	1750	143-5T/56HZ	208-230/460	8.2-7.6/3.8	1.15	89.5%	F	16⅛"	2,10,15	**41D773**	✓
	1740	213/5	208-230/460	8.7-7.9/3.9	1.15	86.5	F	16 3/16"	2,10,15	**2N983**	✓
	1735	56H	208-230/460	8.9-8.1/4.0	1.15	86.5	F	12"	2,10,15	**6VPE8**	✓
	1175	213/5T	208-230/460	10.2-9.2/4.6	1.15	88.5	F	18"	3,15,16	**4GZA2**	✓
	1170	213/5	208-230/460	10.1-9.1/4.6	1.15	86.5	F	16 3/16"	2,10,15	**2N991**	✓
5	3490	213/5	208-230/460	15.8-14.3/7.2	1.15	85.5	F	16 3/16"	2,10,15	**2N998**	✓
	3465	182/4T	208-230/460	13.4-12.2/6.1	1.15	87.5	F	14⅜"	3,16	**4GZA3**	✓
	1750	182/4T	208-230/460	15.0-13.6/6.8	1.15	89.5	F	14⅜"	3,16	**4GZA4**	✓
	1740	213/5	208-230/460	14.1-12.7/6.4	1.15	87.5	F	16 3/16"	2,10,15	**2N984**	✓
	1165	213/5T	208-230/460	15.8-14.3/7.2	1.15	89.5	F	18"	3,15,16	**4GZA5**	✓
	1165	254/6U	208-230/460	15.0-13.5/6.8	1.15	87.5	F	21 3/16"	2,10,15	**2N992**	✓
7½	3500	213/5	208-230/460	21.9-19.8/9.9	1.15	88.5	F	16 3/16"	2,10,15	**2N999**	✓
	3460	182/4T	208-230/460	19.5-17.6/8.8	1.15	88.5	F	14⅜"	3,16	**4GZA6**	✓
	1770	254/6U	208-230/460	20.8-18.8/9.4	1.15	88.5	F	21 3/16"	2,10,15	**2N985**	✓
	1755	213/5T	208-230/460	21.1-19.1/9.5	1.15	91.0	F	18"	3,16	**4GZA7**	✓
	1170	254/6T	208-230/460	22.4-20.2/10.1	1.15	90.2	F	22½"	3,15,16	**4GZA8**	✓
10	3540	254/6U	208-230/460	25.9-23.4/11.7	1.15	89.5	F	21 3/16"	2,10,15	**3N003**	✓
	3505	213/5T	208-230/460	26.8-24.3/12.1	1.15	90.2	F	18"	3,16	**4GZA9**	✓
	1770	254/6U	208-230/460	27.2-25.7/12.9	1.15	89.5	F	21 3/16"	2,10,15	**2N986**	✓
	1755	213/5T	208-230/460	26.9-24.3/12.2	1.15	91.7	F	18"	3,16	**4GZC1**	✓
	1165	254/6T	208-230/460	28.4-25.7/12.8	1.15	91.7	F	22½"	3,15,16	**4GZC2**	✓
15	3500	213/5T	208-230/460	39.2-35.5/17.7	1.15	91.0	F	18"	3,16	**4GZC3**	✓
	1770	254/6T	208-230/460	40.2-36.4/18.2	1.15	93.0	F	22½"	3,16	**4GZC4**	✓
	1175	284/6T	208-230/460	42.3-38.3/19.1	1.15	91.7	F	25⅜"	3,15,16	**4GZC5**	✓
20	3525	254/6T	208-230/460	50.2-45.4/22.7	1.15	91.7	F	22½"	3,16	**4GZC6**	✓
	1770	254/6T	208-230/460	53.7-48.5/24.3	1.15	93.0	F	22½"	3,16	**4GZC7**	✓
	1175	284/6T	208-230/460	54.6-49.4/24.7	1.15	93.0	F	25⅜"	3,15,16	**4GZC8**	✓
25	3530	254/6T	208-230/460	62.0-56.1/28.1	1.15	91.7	F	22½"	3,16	**4GZC9**	✓
	1765	284/6T	208-230/460	65.1-58.8/29.4	1.15	93.6	F	25⅜"	3,16	**4GZD1**	✓
	1175	324T	208-230/460	74.2-67.2/33.6	1.15	93.0%	F	28 9/16"	12	**4GZD2**	✓
30	3540	284/6TS	208-230/460	74.7-67.6/33.8	1.15	92.4	F	24"	3,16	**4GZD3**	✓
	1770	284/6T	208-230/460	76.8-69.4/34.7	1.15	94.1	F	25⅜"	3,16	**4GZD4**	✓
	1175	326T	208-230/460	83.5-78.4/39.2	1.15	93.6%	F	29¾"	12	**4GZD5**	✓
40	3535	284/6TS	208-230/460	99.0-89.6/44.8	1.15	92.4	F	24"	3,16	**4GZD6**	✓
	1770	324T	208-230/460	105.0-95.0/47.5	1.15	94.1%	F	28⅛"	12	**4GZD7**	✓
	1180	364T	208-230/460	105.0-97.0/48.5	1.15	94.1%	F	31 1/16"	12	**4GZD8**	✓
50	3570	324TS	208-230/460	122.0-111.0/55.5	1.15	93.0%	F	27 1/16"	12	**4GZD9**	✓
	1775	326T	208-230/460	131.0-118.0/59.0	1.15	94.5%	F	26⅝"	12	**4GZE1**	✓
	1180	365T	208-230/460	130.5-120.0/60.0	1.15	94.1%	F	33¼"	12	**4GZE2**	✓

Footnotes: 2—50 Hz operation on 190/380V at rated HP and ⅚ of 60 Hz rpm. 3—50 Hz operation on rated voltage or 190/380V at rated HP and ⅚ of 60 Hz rpm at 1.0 SF. 5—50 Hz operation on 190/380V at ⅚ of 60 Hz HP and rpm at 1.0 SF. 10—Inverter-duty, meets NEMA MG 1 Part 30; 10:1 variable and 2:1 constant torque. 12—Inverter-duty, meets NEMA MG 1 Part 31; 10:1 variable and 4:1 constant torque. 14—Part winding start capable. 15—Usable on 200V at 1.0 SF. 16—Inverter-duty, meets NEMA MG1 Part 30; 20:1 variable and 10:1 constant torque.

★ Indicates Grainger Choice products.

✓= Repair & Replacement Coverage Available

Steel Frame

Dayton

3-Phase Premium and Energy-Efficient Totally Enclosed Nonventilated and Totally Enclosed Fan-Cooled Motors

- Mounting: rigid base
- Bearings: ball
- Thermal protection: none
- Insulation Class F motors have Class B temperature rise for longer life
- Inverter rated; see table footnotes for details
- Max. ambient temp.: 40°C
- Rotation: CW/CCW
- **Warranty: 48, 56, and 143-5T/56HZ frame 1 yr.; 140T frame and above 3 yr.**

143-5T/56HZ frame motors have ⅞" x 2¼" shaft and mounting base holes/slots to match 56, 56H, 143T, and 145T frame motors. Not for cooling tower applications. Suitable for dusty, dirty, nonhazardous applications with pumps, ventilation equipment, machine tools, and other industrial equipment. All are UL Recognized and CSA Certified.

Cast-Iron Frame

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Service Factor	Nom. Efficiency	Frame Material	Ins. Class	Overall Length	Foot-notes	Item No.	
Totally Enclosed Nonventilated												
¼	1725	48	208-230/460	0.90-1.0/0.50	1.00	68.9%	Steel	B	9 13/16"	5,10	**3N349**	✓
	1725	56	208-230/460	1.2-1.3/0.65	1.00	62.0%	Steel	B	10"	5,10	**2N863**	✓
⅓	3450	48	208-230/460	1.2-1.3/0.70	1.15	70.3%	Steel	B	9 1/16"	5,10	**3N854**	✓
	1725	48	208-230/460	1.3-1.3/0.70	1.00	68.9%	Steel	B	9 9/16"	5,10	**3N350**	✓
	1725	56	208-230/460	1.4-1.4/0.70	1.00	75.1%	Steel	B	9¾"	5,12	**3N694**	✓
½	1725	56	208-230/460	2.9-2.9/1.4	1.00	80.0%	Steel	B	10 3/8"	5,12	**3N695**	✓
¾	1725	56	208-230/460	2.4-2.4/1.2	1.15	89.8%	Steel	B	11 7/16"	5,12	**3N696**	✓
1	1725	56H	208-230/460	3.4-3.4/1.7	1.00	80.3%	Steel	B	12 11/16"	5,12	**3N697**	✓
Totally Enclosed Fan-Cooled												
⅓	1725	56	208-230/460	1.6-1.8/0.90	1.00	65.5%	Steel	B	10 15/16"	5,10	**2N864**	✓
	1140	56	208-230/460	1.5-1.5/0.75	1.00	72.5%	Steel	B	12 5/16"	5,10	**2N925**	✓
½	3450	56	208-230/460	1.8-1.9/0.95	1.00	70.5%	Steel	B	11 13/16"	5,10	**3N442**	✓
	3450	48	208-230/460	1.8-1.8/0.90	1.00	71.0%	Steel	B	11 9/16"	5,10	**10C901**	✓
	1725	56	208-230/460	2.0-2.0/1.0	1.15	74.3%	Steel	B	11"	5,10	**2N865**	✓
	1725	48	208-230/460	2.2-2.3/1.1	1.00	67.3%	Steel	B	12 9/16"	5,10	**10C897**	✓
	1140	56	208-230/460	2.0-2.0/1.0	1.00	68.0%	Steel	B	11 13/16"	5,10	**2N926**	✓
¾	3450	56	208-230/460	2.5-2.4/1.2	1.00	72.1%	Steel	B	11 13/16"	5,10	**3N443**	✓
	1725	56	208-230/460	2.8-2.9/1.4	1.00	74.0%	Steel	B	11 3/8"	5,10	**2N866**	✓
	1725	48	208-230/460	2.8-2.8/1.4	1.00	73.6%	Steel	B	12⅞"	5,10	**10C899**	✓
	1155	56H	208-230/460	3.0-2.9/1.5	1.15	78.50%	Steel	F	12-10/16"	5,10	**3N427**	✓
1	3450	143T	208-230/460	3.0-2.7/1.4	1.15	77.0%	Cast Iron	F	12 5/16"	12	**2MXT3**	✓
	1760	182/4	208-230/460	3.8-3.4/1.7	1.15	82.5%	Steel	F	15¼"	2,10,15	**2N933**	✓
	1755	143-5T/56HZ	208-230/460	3.2-3.2/1.6	1.25	85.5%	Steel	F	12¾"	5,10	**2NKX4**	✓
	1725	56H	208-230/460	3.8-3.7/1.9	1.15	75.7%	Steel	B	13 1/16"	5,10	**3N017**	✓
	1725	143T	208-230/460	3.1-2.8/1.4	1.15	85.5%	Cast Iron	F	12 5/16"	12	**2MXT4**	✓
	1165	182/4	208-230/460	4.3-3.9/1.9	1.15	80.0%	Steel	F	15¼"	2,10,15	**2N941**	✓
	1155	143-5T/56HZ	208-230/460	3.8-3.8/1.9	1.25	82.5%	Steel	F	12¾"	5,10	**2NKX6**	✓
	1150	145T	208-230/460	3.5-3.2/1.6	1.15	82.5%	Cast Iron	F	13 5/16"	12	**2MXT5**	✓
	1140	56H	208-230/460	3.8-4.0/2.0	1.15	77.0%	Steel	B	12 13/16"	5,10	**3GC39**	✓
1½	3505	143-5T/56HZ	208-230/460	4.4-4.0/2.0	1.25	84.0%	Steel	F	13"	5,10	**2NKY5**	✓
	3465	56H	208-230/460	4.5-3.9/2.0	1.25	80.0%	Steel	F	12-10/16"	5,10	**3N444**	✓
	3455	182/4	208-230/460	4.3-3.9/1.9	1.15	82.5%	Steel	F	15¼"	2,10,15	**2N946**	✓
	3450	143T	208-230/460	4.3-3.9/1.9	1.15	84.0%	Cast Iron	F	12 5/16"	12	**2MXT6**	✓
	3440	56H	208-230/460	4.6-4.2/2.1	1.15	82.5%	Steel	F	13 13/16"	2,10,15	**6VPE9**	✓
	1760	182/4	208-230/460	5.4-4.9/2.5	1.15	84.0%	Steel	F	15¼"	2,10	**2N934**	✓
	1755	143-5T/56HZ	208-230/460	4.6-4.8/2.4	1.25	86.5%	Steel	F	12¾"	5,10	**2NKX8**	✓
	1730	56H	208-230/460	4.5-4.1/2.0	1.15	84.0%	Steel	F	13 13/16"	2,10,15	**6VPF0**	✓
	1725	56H	208-230/460	4.5-4.4/2.2	1.00	80.8%	Steel	B	13 1/16"	5,10	**3N018**	✓
	1725	56H	208-230/460	4.8-4.8/2.4	1.00	79.4%	Steel	B	12 5/16"	5,12	**3N698**	✓
	1725	145T	208-230/460	4.3-3.9/2.0	1.15	86.5%	Cast Iron	F	13 5/16"	12	**2MXT7**	✓
	1170	182/4T	208-230/460	6.2-5.8/2.9	1.15	87.5%	Steel	F	16 9/16"	3,16	**4GYY7**	✓
	1170	182/4	208-230/460	6.1-5.5/2.7	1.15	85.5%	Steel	F	15¼"	2,10	**2N942**	✓
	1150	182T	208-230/460	4.9-4.8/2.4	1.15	87.5%	Cast Iron	F	14 11/16"	12	**2MXT8**	✓
2	3505	143-5T/56HZ	208-230/460	5.2-4.8/2.4	1.25	85.5%	Steel	F	12¾"	5,10	**2NKY1**	✓
	3505	56H	208-230/460	5.5-5.0/2.5	1.25	85.50%	Steel	F	12-10/16"	5,12	**3N445**	✓
	3465	182/4	208-230/460	5.6-5.1/2.5	1.15	84.0%	Steel	F	15¼"	2,10,15	**2N947**	✓
	3450	145T	208-230/460	5.5-5.0/2.5	1.15	85.5%	Cast Iron	F	13 5/16"	12	**2MXT9**	✓
	1755	182/4	208-230/460	6.8-6.1/3.1	1.15	84.0%	Steel	F	15¼"	2,10,15	**2N935**	✓
	1750	143-5T/56HZ	208-230/460	6.0-5.8/2.9	1.25	86.5%	Steel	F	12¾"	5,10	**2NKY3**	✓
	1740	56H	208-230/460	5.9-6.0/3.0	1.25	84.00%	Steel	F	12-10/16"	5,10	**3N486**	✓
	1740	56H	208-230/460	5.8-5.3/2.6	1.15	85.5%	Steel	F	15"	2,10,15	**6VPF1**	✓
	1725	145T	208-230/460	5.6-5.1/2.5	1.15	86.5%	Cast Iron	F	13 5/16"	12	**2MXU1**	✓
	1175	213/5	208-230/460	6.9-6.3/3.1	1.15	86.5%	Steel	F	19¼"	2,10,15	**2N943**	✓
	1165	182/4T	208-230/460	7.3-6.6/3.3	1.15	88.5%	Steel	F	16 9/16"	3,16	**4GYY8**	✓
	1165	184T	208-230/460	6.1-6.0/3.0	1.15	88.5%	Cast Iron	F	15¾"	12	**2MXU2**	✓

Footnotes: 2—50 Hz operation on 190/380V at rated HP and 5/6 of 60 Hz RPM. 3—50 Hz operation on rated voltage or 190/380V at rated HP and 5/6 of 60 Hz RPM at 1.0 SF. 5—50 Hz operation on 190/380V at 5/6 of 60 Hz HP and rpm at 1.0 SF. 10—Inverter-duty, meets NEMA MG 1 Part 30; 10:1 variable and 2:1 constant torque. 12—Inverter-duty, meets NEMA MG 1 Part 31; 10:1 variable and 4:1 constant torque. 15—Usable on 200V at 1.0 SF. 16—Inverter-duty, meets NEMA MG1 Part 30; 20:1 variable and 10:1 constant torque.

CONTINUED

3-Phase Premium and Energy-Efficient Totally Enclosed Nonventilated and Totally Enclosed Fan-Cooled Motors

Dayton

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Service Factor	Nom. Efficiency	Frame Material	Ins. Class	Overall Length	Foot-notes	Item No.	
Totally Enclosed Fan-Cooled												
3	3510	182/4T	208-230/460	8.4-7.8/3.9	1.25	86.5%	Steel	F	13 7/16"	5,10	**2NKY7**	✓
	3510	182T	208-230/460	7.7-7.1/3.5	1.15	86.5%	Cast Iron	F	14 1/16"	16	**2MXU3**	✓
	3490	143-5T/56HZ	208-230/460	8.1-7.2/3.6	1.25	86.5%	Steel	F	13¾"	2,10,15	**41D774**	✓
	3465	182/4	208-230/460	8.1-7.3/3.7	1.15	85.5%	Steel	F	15¼"	2,10,15	**2N948**	✓
	1765	213/5	208-230/460	8.7-7.8/3.9	1.15	87.5%	Steel	F	19¼"	2,10,15	**2N936**	✓
	1760	182T	208-230/460	8.3-7.5/3.7	1.15	89.5%	Cast Iron	F	14 1/16"	16	**2MXU4**	✓
	1755	182/4T	208-230/460	9.4-8.5/4.2	1.15	89.5%	Steel	F	16 9/16"	3,16	**4GYY9**	✓
	1170	213/5	208-230/460	9.9-8.9/4.5	1.15	87.5%	Steel	F	19¼"	2,10,15	**2N944**	✓
	1170	213/5T	208-230/460	10.2-9.2/4.6	1.15	89.5%	Steel	F	20½"	3,16	**4GYZ1**	✓
	1170	213T	208-230/460	8.9-8.0/4.0	1.15	91.0%	Cast Iron	F	18"	16	**2MXU5**	✓
5	3510	184T	208-230/460	12.6-11.4/5.7	1.15	90.5%	Cast Iron	F	15¾"	16	**2MXU6**	✓
	3485	213/5	208-230/460	13.7-12.4/6.2	1.15	87.5%	Steel	F	19¼"	5,10,15	**2N949**	✓
	3460	182/4T	208-230/460	12.9-11.6/5.8	1.15	89.5%	Steel	F	16 9/16"	3,16	**4GYZ2**	✓
	1755	184T	208-230/460	13.5-122/6.1	1.15	89.5%	Cast Iron	F	15¾"	16	**2MXU7**	✓
	1755	213/5	208-230/460	14.1-12.7/6.4	1.15	87.5%	Steel	F	19¼"	5,10,15	**2N937**	✓
	1740	182/4T	208-230/460	14.5-13.1/6.5	1.15	89.5%	Steel	F	16 9/16"	3,16	**4GYZ3**	✓
	1170	213/5T	208-230/460	15.5-14.0/7.0	1.15	91.0%	Steel	F	20½"	3,16	**4GYZ4**	✓
	1165	254/6U	208-230/460	15.0-13.5/6.8	1.15	87.5%	Steel	F	25 5/32"	5,10,15	**2N945**	✓
	1160	215T	208-230/460	13.8-12.5/6.2	1.15	91.0%	Cast Iron	F	19½"	16	**2MXU8**	✓
7½	3530	213T	208-230/460	19.1-17.3/8.7	1.15	92.1%	Cast Iron	F	18"	16	**2MXU9**	✓
	3510	213/5T	208-230/460	20.4-18.4/9.2	1.15	90.2%	Steel	F	20½"	3,16	**4GYZ5**	✓
	1770	213T	208-230/460	19.5-17.7/8.9	1.15	91.7%	Cast Iron	F	18"	16	**2MXV1**	✓
	1770	254/6U	208-230/460	20.3-18.4/9.2	1.15	89.5%	Steel	F	25 5/32"	5,10,15	**2N938**	✓
	1760	213/5T	208-230/460	20.4-18.5/9.2	1.15	91.7%	Steel	F	20½"	3,16	**4GYZ6**	✓
	1170	254T	208-230/460	21.1-19.1/9.6	1.15	91.0%	Cast Iron	F	23 1/16"	16	**2MXV2**	✓
10	3530	215T	208-230/460	25.4-23.0/11.5	1.15	91.0%	Cast Iron	F	19½"	16	**2MXV3**	✓
	3485	213/5T	208-230/460	26.5-23.9/12.0	1.15	91.0%	Steel	F	20½"	3,16	**4GYZ7**	✓
	1765	215T	208-230/460	25.7-23.3/11.6	1.15	91.7%	Cast Iron	F	19½"	16	**2MXV4**	✓
	1755	213/5T	208-230/460	26.6-24.0/12.0	1.15	91.7%	Steel	F	20½"	3,16	**4GYZ8**	✓
	1170	256T	208-230/460	28.3-25.6/12.8	1.15	91.0%	Cast Iron	F	25 7/16"	16	**2MXV5**	✓
15	3535	254T	208-230/460	36.7-33.2/16.6	1.15	92.4%	Cast Iron	F	23 1/16"	16	**2MXV6**	✓
	1765	254T	208-230/460	38.1-34.5/17.3	1.15	92.4%	Cast Iron	F	23 1/16"	16	**2MXV7**	✓
	1180	284T	208-230/460	40.2-36.4/18.2	1.15	92.4%	Cast Iron	F	26 3/16"	16	**2MXV8**	✓
20	3530	256T	208-230/460	48.4-43.8/21.9	1.15	92.4%	Cast Iron	F	25 7/16"	16	**2MXV9**	✓
	1765	256T	208-230/460	50.8-46.0/23.0	1.15	93.0%	Cast Iron	F	25 7/16"	16	**2MXW1**	✓
	1180	286T	208-230/460	53.7-48.6/24.3	1.15	91.7%	Cast Iron	F	28 5/16"	16	**2MXW2**	✓
25	3555	284TS	208-230/460	61.4-55.6/27.8	1.15	93.0%	Cast Iron	F	25 7/16"	16	**2MXW3**	✓
	1770	284T	208-230/460	64.3-58.2/29.1	1.15	93.6%	Cast Iron	F	26 3/16"	16	**2MXW4**	✓
	1175	324T	208-230/460	67.0-50.8/30.3	1.15	93.0%	Cast Iron	F	29 15/16"	16	**2MXW5**	✓
30	3530	286TS	208-230/460	73.4-66.4/33.2	1.15	91.7%	Cast Iron	F	28 15/16"	16	**2MXW6**	✓
	1765	286T	208-230/460	75.8-68.6/34.3	1.15	93.6%	Cast Iron	F	28 5/16"	16	**2MXW7**	✓
	1175	326T	208-230/460	82.9-75.0/37.5	1.15	93.0%	Cast Iron	F	31 7/16"	16	**2MXW8**	✓
40	3555	324TS	208-230/460	97.7-88.4/44.2	1.15	94.1%	Cast Iron	F	28 7/16"	16	**2MXW9**	✓
	1770	324T	208-230/460	102.3-92.6/46.3	1.15	94.1%	Cast Iron	F	29 15/16"	16	**2MXX1**	✓
	1175	364T	208-230/460	101.0-92.0/46.0	1.15	94.1%	Cast Iron	F	32 9/16"	16	**2MXX2**	✓
50	3550	326TS	208-230/460	120.0-109.0/54.7	1.15	94.1%	Cast Iron	F	29 15/16"	16	**2MXX3**	✓
	1770	326T	208-230/460	125.0-113.8/56.9	1.15	94.5%	Cast Iron	F	31 7/16"	16	**2MXX4**	✓
	1180	365T	208-230/460	128.0-115.6/57.8	1.15	94.1%	Cast Iron	F	33 9/16"	16	**2MXX5**	✓

Footnotes: 2—50 Hz operation on 190/380V at rated HP and 5/6 of 60 Hz RPM. 3—50 Hz operation on rated voltage or 190/380V at rated HP and 5/6 of 60 Hz RPM at 1.0 SF. 5—50 Hz operation on 190/380V at 5/6 of 60 Hz HP and rpm at 1.0 SF. 10—Inverter-duty, meets NEMA MG 1 Part 30; 10:1 variable and 2:1 constant torque. 15—Usable on 200V at 1.0 SF. 16—Inverter-duty, meets NEMA MG1 Part 30; 20:1 variable and 10:1 constant torque.

No. 40Z948

marathon Motors NEMA Premium

3-Phase NEMA Premium® and Energy-Efficient Totally Enclosed Fan-Cooled Motors with Aegis Rings

- Mounting: base
- Bearings: ball
- Thermal protection: none
- Service factor: 1.15
- Insulation: Class F
- Max. ambient temp.: 40°C
- Rotation: CW/CCW
- 3-yr. warranty

Feature bearing protection rings that provide a grounding path to divert currents away from bearings to ground. Design prevents bearing fluting damage for motors controlled by variable frequency drives. Cast-iron frame. Suitable for use on blowers, compressors, conveyors, pumps, and other machinery in dirty and dusty environments. UL Recognized and CSA Certified.

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Nom. Efficiency	Overall Length	Item No.	
1	1735	143T	230/460	3.0/1.5	85.5%	14"	**40Z948**	✓
1½	1755	145T	230/460	4.6/2.3	86.5%	14"	**40Z949**	✓
2	1755	145T	230/460	6.0/3.0	86.5%	14"	**40Z950**	✓
3	1765	182T	230/460	8.0/4.0	90.2%	15⅞"	**40Z951**	✓
5	1755	184T	230/460	12.4/6.2	90.2%	17⅞"	**40Z952**	✓
7½	1770	213T	230/460	20.0/10.0	91.7%	19⅝"	**40Z953**	✓
10	1765	215T	230/460	25.0/12.5	91.7%	22⅝"	**40Z954**	✓
15	1775	254T	230/460	37.5/18.8	92.4%	23½"	**40Z955**	✓
20	1775	256T	230/460	48.0/24.1	93%	25¼"	**40Z956**	✓
25	1775	284T	230/460	62.0/31.0	93.6%	26 5/16"	**40Z957**	✓
30	1775	286T	230/460	73.0/36.5	94.1%	27 13/16"	**40Z958**	✓
40	1780	324T	230/460	95.0/47.5	94.1%	30⅜"	**40Z959**	✓
50	1775	326T	230/460	120.0/60.0	94.5%	31⅞"	**40Z960**	✓

★ Indicates Grainger Choice products.
✓= Repair & Replacement Coverage Available

For assistance with motor selection, see pages 3 to 6.

3-Phase NEMA Premium® and Energy-Efficient Open Dripproof Motors

- Mounting: rigid base
- Bearings: ball, regreasable on 254T frame and above
- Thermal protection: none
- Insulation: Class F, motors have Class B temp. rise for longer life
- Inverter rated, 4:1 constant torque and 10:1 variable torque
- Max. ambient temp.: 40°C
- Rotation: CW/CCW
- Warranty: 56 frame 1½ yr., 140T and above 3 yr.
- 150 HP and up are part-winding start capable

Corrosion-resistant finish. Gasketed conduit boxes are threaded for easier installation. Stainless steel, laser-etched nameplate maintains information over long life. Suitable for clean, dry, nonhazardous applications with pumps, ventilation equipment, machine tools, and other industrial equipment. UL Recognized, CSA and CE Certified.

Note: Motors are suitable for use at 50 Hz. Motors in a 143T frame and above are nameplated 60/50 Hz, and maintain nameplate HP rating.

Rolled Steel Frame

Cast-Iron Frame

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Service Factor	Nom. Efficiency	Ins. Class	Overall Length	Mfr. Model	Item No.	
Rolled Steel Frame											
¼	3480	56	208-230/460	1.0-1.1/0.56	1.35	58.0%	B	10 5/16"	.2536OS3EA56	**1EBT5**	✓
	1750	56	208-230/460	1.20-1.4/0.70	1.35	62.0%	B	10 5/16"	.2518OS3EA56	**1EBT6**	✓
	1150	56	208-230/460	1.3-1.5/0.75	1.35	55.0%	B	10 5/16"	.2512OS3EA56	**1EBT7**	✓
⅓	3500	56	208-230/460	1.34-1.40/0.70	1.35	63.0%	B	10 5/16"	.3336OS3EA56	**1EBT8**	✓
	1740	56	208-230/460	1.30-1.40/0.73	1.35	64.0%	B	10 5/16"	.3318OS3EA56	**1EBT9**	✓
	1140	56	208-230/460	1.4-1.4/0.73	1.35	66.00%	B	10 5/16"	.3312OS3EA56	**1EBV1**	✓
½	3480	56	208-230/460	1.9-1.8/0.91	1.25	66.0%	B	10 5/16"	.5036OS3EA56	**1EBV2**	✓
	1730	56	208-230/460	1.81-1.84/0.92	1.25	70.0%	B	10 5/16"	.5018OS3EA56	**1EBV3**	✓
	1140	56	208-230/460	2.0-2.0/1.0	1.25	70.00%	B	11 1/8"	.5012OS3EB56	**1EBV4**	✓
¾	3450	56	208-230/460	2.5-2.3/1.2	1.25	72.0%	B	11 1/8"	.7536OS3EB56	**1EBV5**	✓
	1735	56	208-230/460	2.6-2.7/1.3	1.25	72.0%	B	11 1/8"	.7518OS3EB56	**1EBV6**	✓
	1130	56	208-230/460	2.8-2.7/1.3	1.15	70.0%	B	12 5/16"	.7512OS3ED56	**1EBV7**	✓
1	3470	56	208-230/460	3.20-3.11/1.55	1.25	74.0%	B	11 1/8"	00136OS3EB56	**1EBV8**	✓
	1760	143/5T	208-230/460	1.5	1.15	85.5	F	11 3/16"	00118OT3E143T-S	**33HN85**	✓
1½	3510	143/5T	208-230/460	1.8	1.15	84.0	F	11 3/16"	00156OT3E143T-S	**33HN89**	✓
	1760	143/5T	208-230/460	2.0	1.15	86.5	F	12 25/64"	00158OT3E145T-S	**33HN91**	✓
2	3510	143/5T	208-230/460	2.4	1.15	85.5	F	11 31/32"	00236OT3E145T-S	**33HN99**	✓
	1730	143/5T	208-230/460	2.6	1.15	86.5	F	12 25/64"	00218OT3E145T-S	**33HN95**	✓
3	3480	143/5T	208-230/460	3.5	1.15	85.5	F	12 25/64"	00336OT3E145T-S	**33HP06**	✓
	1760	182T	208-230/460	8.9-8.1/4.0	1.15	89.5%	F	13 1/2"	00318OT3E182T	**1XTW1**	✓
5	3510	182/4T	208-230/460	6.1	1.15	86.5	F	14 49/64"	00536OT3E182T-S	**33HP12**	✓
	1760	182/4T	208-230/460	6.3	1.15	89.5	F	16 5/16"	00518OT3E184T-S	**33HP08**	✓
7½	3500	182/4T	208-230/460	8.6	1.15	88.5	F	15 5/64"	00736OT3E184T-S	**33HP18**	✓
	1760	213/5T	208-230/460	20.0-18.1/9.0	1.15	91.0%	F	17 3/16"	00718OT3E213T	**1XTW5**	✓
10	3520	213/5T	208-230/460	26.2-23.7/11.9	1.15	90.2%	F	17 3/16"	01036OT3E213T	**1XTW8**	✓
	1765	213/5T	208-230/460	27.0-24.4/12.2	1.15	91.7%	F	17 3/16"	01018OT3E215T	**1XTW7**	✓
15	3515	213/5T	208-230/460	38.5-34.8/17.4	1.15	91.0%	F	17 3/16"	01536OT3E215T	**1XTX1**	✓
	1775	254/6T	208-230/460	18.3	1.15	93.0	F	20 15/32"	01518OT3E254T-S	**33HM95**	✓
Cast-Iron Frame											
20	3520	254T	208-230/460	54.4-49.2/24.6	1.15	91.0%	F	20 11/16"	02036OT3E254T	**1XTX3**	✓
	1770	256T	208-230/460	55.3-49.4/24.7	1.15	93.0%	F	22 3/8"	02018OT3E256T	**1XTX2**	✓
25	3530	256T	208-230/460	65.9-59.6/29.8	1.15	91.7%	F	22 3/8"	02536OT3E256T	**1XTX5**	✓
	1770	284T	208-230/460	66.1-59.8/29.9	1.15	93.6%	F	23 3/8"	02518OT3E284T	**1XTX4**	✓
30	3540	284TS	208-230/460	76.7-70.4/35.2	1.15	92.4%	F	22"	03036OT3E284TS	**1XTX7**	✓
	1775	286T	208-230/460	78.3-70.8/35.4	1.15	94.1%	F	24 7/8"	03018OT3E286T	**1XTX6**	✓
40	3535	286TS	208-230/460	104.0-94.2/47.1	1.15	93.0%	F	23 1/2"	04036OT3E286TS	**1XTX9**	✓
	1775	324T	208-230/460	107.0-96.4/48.2	1.15	94.1%	F	26 3/16"	04018OT3E324T	**1XTX8**	✓
50	3555	324TS	208-230/460	131.0-118.0/59.1	1.15	93.6%	F	24 11/16"	05036OT3E324TS	**1XTY2**	✓
	1775	326T	208-230/460	132.0-122.8/61.4	1.15	94.5%	F	27 11/16"	05018OT3E326T	**1XTY1**	✓
60	3555	326TS	208-230/460	157.0-142.0/71.0	1.15	93.6%	F	26 3/16"	06036OT3E326TS	**1XTY4**	✓
	1780	364T	208-230/460	155.0-140.0/69.9	1.15	95.0%	F	29 3/4"	06018OT3E364T	**1XTY3**	✓
75	3550	364TS	208-230/460	180.0-163.0/81.5	1.15	94.1%	F	27 5/8"	07536OT3E364TS	**1XTY6**	✓
	1780	365T	208-230/460	189.0-171.0/85.5	1.15	95.0%	F	29 3/4"	07518OT3E365T	**1XTY5**	✓
100	3550	365TS	208-230/460	245.0-222.0/111.0	1.15	94.5%	F	27 5/8"	10036OT3E365TS	**1XTZ6**	✓
	1780	404T	208-230/460	254.0-230.0/115.0	1.15	95.4%	F	34 1/8"	10018OT3E404T	**1XTY7**	✓
125	3550	404TS	208-230/460	301.0-272.0/136.0	1.15	94.5%	F	31 1/8"	12536OT3E404TS	**1XTZ7**	✓
	1780	405T	208-230/460	301.0-284.0/143.0	1.15	95.4%	F	34 1/8"	12518OT3E405T	**1XTY8**	✓
150	3555	405TS	460	162.0	1.15	94.5%	F	31 1/8"	15036OT3G405TS	**1XTZ8**	✓
	1785	444T	460	166.0	1.15	95.8%	F	39 13/16"	15018OT3G444T	**1XTY9**	✓
200	3575	444TS	460	223.0	1.15	95.0%	F	36 1/16"	20036OT3G444TS	**1XTZ9**	✓
	1780	445T	460	223.0	1.15	95.8%	F	39 13/16"	20018OT3G445T	**1XTZ1**	✓

Shaft Grounding Rings

Help extend motor life by safely diverting harmful VFD-induced shaft voltages away from motor's bearings to ground. Protect both motor bearings and the bearings in attached equipment. Aluminum construction. Include mounting brackets.

Fits Shaft Dia.	For Use With	1-PIECE Item No.	SPLIT RING Item No.	
Grounding Rings				
⅝"	Motor Frame 56	**14R028**	**41D790**	✓
⅞"	Motor Frames 143T, 145T	**14R029**	**41D791**	✓
1⅛"	Motor Frames 182T, 184T	**14R030**	**41D792**	✓
1⅜"	Motor Frames 213T, 215T	**14R031**	**41D793**	✓
1⅝"	Motor Frames 254T, 256T, 284TS, 286TS	**14R032**	**41D794**	✓
1⅞"	Motor Frames 284T, 286T, 324TS, 326TS, 364TS, 365TS	**14R033**	**41D795**	✓
2⅛"	Motor Frames 324T, 326T, 404TS, 405TS	**14R034**	**41D796**	✓
2⅜"	Motor Frames 364T, 365T, 444TS, 445TS, 447TS, 449TS	**14R035**	**41D797**	✓
2⅞"	Motor Frames 404T, 405T	**14R036**	**41D798**	✓
3⅜"	Motor Frames 444T, 445T, 447T, 449T	**14R037**	**41D799**	✓
Conductive Mounting Epoxy				
5 Min., (2) 7g syringe		**14C789**		

No. 14R028

No. 41D790

Rolled Steel Frame
No. 1EBC8

Cast-Iron Frame
No. 6AJA6

NEMA Premium™ WEG

3-Phase NEMA Premium®, Energy-Efficient, and Super Premium Totally Enclosed Fan-Cooled Motors

- 208-230/460V; 125 HP and above are 460V
- Service factor: 1.15 for Rolled Steel and Cast-Iron 125 HP and up; 1.25 for Cast-Iron to 100 HP and Super Premium
- Mounting: rigid base
- Bearings: ball, regreasable on 254T frame and above
- Thermal protection: none
- Insulation: Class F, with Class B temp. rise for longer life
- Inverter rated: Rolled Steel models, 20:1 constant torque and 100:1 variable torque; Cast-Iron models, 1000:1 variable and 20:1 constant torque
- Max. ambient temp.: 40°C
- Rotation: CW/CCW
- Warranty: 56 frame 1½ yr., 140T and above 3 yr.
- 125 HP and above are part-winding start capable

Corrosion-resistant finish. V-ring slingers on both endshields block debris from entering bearing cavity. Automatic pressure-compensated drain plugs. Gasketed conduit boxes are threaded for easier installation. Stainless steel, laser-etched nameplate maintains information over long life. Not for cooling tower applications. Suitable for dusty, dirty, nonhazardous applications with pumps, ventilation equipment, machine tools, and other industrial equipment. Motors meet IP55 enclosure ratings and can be operated in moist to wet environments. Cast-Iron models offer 50 Hz operation on 190/380V at rated HP and ⅝ of 60 Hz rpm. Severe-duty rated. All motors are UL Recognized, CSA and CE Certified.

HP	Nameplate RPM	Frame	Full Load Amps	Nom. Efficiency	Overall Length	Item No.	
Rolled Steel Frame,							
¼	3420	56	0.90-0.90/0.45	62.0%	11⅛"	**1EBC5**	✓
	1760	56	1.0-1.0/0.50	70.0%	11⅛"	**1EBC6**	✓
⅓	3465	56	1.2-1.2/0.60	66.0%	11⅛"	**1EBC7**	✓
	1730	56	1.2-1.1/0.55	75.5%	11⅛"	**1EBC8**	✓
½	1160	56	2.4-2.6/1.3	70.0%	11⅛"	**1EBD2**	✓
¾	3440	56	2.3-2.2/1.1	77.0%	11⅛"	**1EBD3**	✓
	1160	56	2.9-2.9/1.4	81.5%	12⁹⁄₁₆"	**1EBD5**	✓
1	3440	56	3.0-2.8/1.4	80.0%	11⅛"	**1EBD6**	✓
Cast-Iron Frame, High Efficiency and NEMA Premium®							
1	1760	143T	3.0-2.8/1.4	85.5%	12⅜"	**6AHZ7**	✓
	1150	145T	3.8-3.4/1.7	82.5%	13⅜"	**6AHZ6**	✓
	875	182T	5.0-4.6/2.3	78.5%	14⅞"	**6AHZ5**	✓
1½	3490	143T	4.2-3.8/1.9	84.0%	12⅜"	**6AHZ9**	✓
	1755	145T	4.3-4.0/2.0	86.5%	13⅜"	**6AJA0**	✓
	1165	182T	5.2-4.7/2.4	87.5%	14⅞"	**6AHZ8**	✓
	860	182/4T	5.9-5.4/2.7	82.5%	15⅞"	**6AJA1**	✓
2	3480	145T	5.6-5.0/2.5	85.5%	13⅜"	**6AJA5**	✓
	1750	145T	5.7-5.2/2.6	86.5%	13⅜"	**6AJA4**	✓
	1165	184T	7.1-6.4/3.2	88.5%	15⅞"	**6AJA3**	✓
	870	213T	7.4-6.7/3.4	85.5%	18"	**6AJA2**	✓
3	3510	182T	8.0-7.2/3.6	86.5%	14⅞"	**6AJA9**	✓
	1760	182T	8.5-7.7/3.8	89.5%	14⅞"	**6AJA8**	✓
	1170	213T	9.7-8.8/4.4	89.5%	18"	**6AJA7**	✓
	865	215T	10.1-9.1/4.5	85.5%	19½"	**6AJA6**	✓
5	3500	184T	13.1-11.8/5.90	88.5%	15⅞"	**6AJC3**	✓
	1755	184T	14.3-12.9/6.4	89.5%	15⅞"	**6AJC2**	✓
	1160	215T	15.1-13.7/6.8	89.5%	19½"	**6AJC1**	✓
	880	254T	16.8-15.2/7.5	87.5%	23¼"	**6AJC0**	✓
7½	3520	213T	19.4-17.5/8.7	89.5%	18"	**6AJC6**	✓
	1765	213T	19.9-18.0/9.0	91.7%	18"	**6AJC5**	✓
	1175	254T	21.0-19.0/9.4	91.0%	23¼"	**6AJC4**	✓
10	3515	215T	25.7-23.2/11.6	90.2%	19½"	**6AJC9**	✓
	1760	215T	27.4-24.8/12.4	91.7%	19½"	**6AJC8**	✓
	1175	256T	28.5-25.8/12.9	91.0%	25"	**6AJC7**	✓
15	3530	254T	37.6-34.4/17.2	91.0%	23¼"	**6AJD2**	✓
	1765	254T	39.8-36.0/18.0	92.4%	23¼"	**6AJD1**	✓
	1175	284T	39.6-35.8/17.9	91.7%	26⁷⁄₁₆"	**6AJD0**	✓
20	3520	256T	51.3-46.4/23.2	91.0%	24¹⁵⁄₁₆"	**6AJD5**	✓
	1765	256T	53.3-48.8/24.4	93.0%	24¹⁵⁄₁₆"	**6AJD4**	✓
	1175	286T	53.5-48.4/24.2	91.7%	27¹⁵⁄₁₆"	**6AJD3**	✓
25	3535	284TS	63.0-57.0/28.5	91.7%	25¹⁄₁₆"	**6AJD8**	✓
	1765	284T	65.2-59.0/29.5	93.6%	26⁷⁄₁₆"	**6AJD7**	✓
	1180	324T	67.2-60.8/30.4	93.0%	29⅝"	**6AJD6**	✓
30	3535	286TS	74.8-67.6/33.8	91.7%	26⁹⁄₁₆"	**6AJE1**	✓
	1765	286T	77.6-70.2/35.1	93.6%	27¹⁵⁄₁₆"	**6AJE0**	✓
	1180	326T	79.2-71.6/35.8	93.0%	31⅛"	**6AJD9**	✓
40	3555	324TS	101.0-91.6/45.8	92.4%	28⅛"	**6AJE4**	✓
	1775	324T	107.0-96.4/48.2	94.1%	29⅝"	**6AJE3**	✓
	1180	364/5T	103.0-93.0/46.5	94.1%	34¼"	**6AJE2**	✓
50	3550	326TS	124.0-112.0/56.1	93.0%	29⅝"	**6AJE7**	✓
	1775	326T	131.0-118.0/59.2	94.5%	31⅛"	**6AJE6**	✓
	1180	364/5T	127.0-115.0/57.4	94.1%	34¼"	**6AJE5**	✓
60	3560	364/5TS	148.0-134.0/67.0	93.6%	32¼"	**6AJF0**	✓
	1775	364/5T	151.0-137.0/68.3	95.0%	34¼"	**6AJE9**	✓
	1180	404/5T	154.0-139.0/69.5	94.5%	39¾"	**6AJE8**	✓
75	3555	364/5TS	181.0-164.0/81.9	93.6%	32¼"	**6AJF3**	✓
	1775	364/5T	186.0-168.0/84.1	95.4%	34¼"	**6AJF2**	✓
	1180	404/5T	188.0-170.0/84.9	94.5%	39¾"	**6AJF1**	✓
100	3555	404/5TS	243.0-220.0/110.0	94.1%	36¾"	**6AJF6**	✓
	1775	404/5T	245.0-222.0/111.0	95.4%	39¾"	**6AJF5**	✓
	1185	444/5T	268.0-242.0/121.0	95.0%	45"	**6AJF4**	✓
125	3570	444/5TS	134.0	95.0%	41⅛"	**6AJF9**	✓
	1780	444/5T	139.0	95.4%	45"	**6AJF8**	✓
	1185	444/5T	143.0	95.0%	44¹⁵⁄₁₆"	**6AJF7**	✓
150	3570	444/5TS	161.0	95.0%	41¼"	**6AJG1**	✓
	1780	444/5T	170.0	95.8%	44¹⁵⁄₁₆"	**6AJG0**	✓
200	3570	445/7TS	219.0	95.4%	44¹⁵⁄₁₆"	**6AJG3**	✓
	1780	445/7T	230.0	96.2%	48¾"	**6AJG2**	✓
Cast-Iron Frame, Super Premium							
1	3485	143T	1.3	84.0%	12⅜"	**39J093**	✓
	1760	143T	1.3	87.5%	13⅝"	**39J094**	✓
1½	3485	143T	1.9	86.5%	12⅜"	**39J095**	✓
	1760	145T	1.9	88.5%	14⅝"	**39J096**	✓
2	3490	145T	2.5	87.5%	13⅜"	**39J097**	✓
	1760	145T	2.6	88.5%	14⅝"	**39J098**	✓
3	3520	182T	3.6	88.5%	14⅞"	**39J099**	✓
	1765	182T	3.7	91.0%	16"	**39J101**	✓
	1175	213T	4.3	90.2%	19½"	**39J102**	✓
5	3505	184T	5.9	90.2%	15⅞"	**39J103**	✓
	1755	184T	6.4	91.0%	17"	**39J104**	✓
	1170	215T	6.8	91.0%	20⅞"	**39J105**	✓
7½	3530	213T	8.8	91.0%	18"	**39J106**	✓
	1770	213T	8.9	93.0%	19½"	**39J107**	✓
	1175	254T	9.4	92.4%	23¼"	**39J108**	✓
10	3535	215T	11.5	91.7%	19½"	**39J109**	✓
	1765	215T	12.0	93.0%	20⅞"	**39J110**	✓
	1180	256T	12.7	92.4%	25"	**39J111**	✓
15	3545	254T	17.4	92.4%	23¼"	**39J112**	✓
	1775	254T	17.8	93.6%	23¼"	**39J113**	✓
	1180	284T	18.1	93.0%	26⅜"	**39J114**	✓
20	3545	256T	23.0	93.0%	25"	**39J115**	✓
	1770	256T	24.7	94.1%	25"	**39J116**	✓
	1180	286T	24.4	93.0%	27⅞"	**39J117**	✓
25	3550	284TS	28.5	93.6%	25"	**39J118**	✓
	1775	284T	30.3	94.5%	26⅜"	**39J119**	✓
	1185	324T	30.8	94.1%	29⅝"	**39J120**	✓
30	3550	286TS	33.5	93.6%	26½"	**39J121**	✓
	1775	286T	35.6	94.5%	27⅞"	**39J122**	✓
	1185	326T	36.7	94.1%	31⅛"	**39J123**	✓
40	3565	324TS	46.5	94.1%	28⅛"	**39J124**	✓
	1780	324T	48.9	95%	29⅝"	**39J125**	✓
	1185	364/5T	48.9	95%	34¼"	**39J126**	✓
50	3570	326TS	57.1	94.5%	29⅝"	**39J127**	✓
	1780	326T	60.1	95.4%	31⅛"	**39J128**	✓
	1185	364/5T	60.3	95%	34¼"	**39J129**	✓
60	3570	364/5TS	66.8	95%	32¼"	**39J130**	✓
	1780	364/5T	70.2	95.8%	34¼"	**39J131**	✓
	1185	404/5T	72.2	95.4%	39¾"	**39J132**	✓
75	3570	364/5TS	82.6	95%	32¼"	**39J133**	✓
	1780	364/5T	86.8	95.8%	34¼"	**39J134**	✓
	1190	404/5T	89.3	95.4%	39¾"	**39J135**	✓
100	3570	404/5TS	110.0	95.4%	36¾"	**39J136**	✓
	1780	404/5T	116.0	96.2%	39¾"	**39J137**	✓
	1190	444/5T	124.0	95.8%	45"	**39J138**	✓
125	3580	444/5TS	136.0	95.8%	41¼"	**39J139**	✓
	1785	444/5T	144.0	96.2%	45"	**39J140**	✓
	1190	444/5T	152.0	95.8%	45"	**39J141**	✓
150	3580	444/5TS	163.0	96.2%	41¼"	**39J142**	✓
	1785	444/5T	170.0	96.5%	45"	**39J143**	✓
	1190	447/9T	179.0	96.2%	56⅜"	**39J144**	✓
200	3575	445/7TS	217.0	96.2%	45"	**39J145**	✓
	1785	447/9T	234.0	96.8%	56⅜"	**39J146**	✓
	1190	447/9T	245.0	96.2%	56⅜"	**39J147**	✓
250	3575	445/7TS	267.0	96.5%	45"	**39J148**	✓
	1785	447/9T	286.0	96.8%	56⅜"	**39J149**	✓

★ Indicates Grainger Choice products.
✓= Repair & Replacement Coverage Available

3-Phase Face- and Face/Base-Mount Motors

marathon™ Motors

- Bearings: ball
- Thermal protection: none
- Max. ambient temp.: 40°C
- Rotation: CW/CCW
- Frame material: steel
- Manufacturer's warranty: Nos. 30E438 to 30E448 are 3 yr., Nos. 30E454 and 30E455 are 2 yr.

Use in pumps, speed reducers, machine tools, and other shaft-end-mounted industrial equipment applications. Open dripproof enclosures are for use in clean, dry, nonhazardous applications. Totally enclosed fan-cooled enclosures are for use in dusty or dirty applications. UL Recognized and CSA Certified.

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Service Factor	Nom. Efficiency	Ins. Class	Overall Length	Foot-notes	Item No.	
Open Dripproof, Face-Mount											
¼	1725	56C	208-230/460	1.1-1.2/0.60	1.00	67.4%	B	9½"	—	**5N112**	✓
⅓	3450	56C	208-230/460	1.5-1.8/0.90	1.75	61.0%	B	9⅞"	—	**3N817**	✓
½	3450	56C	208-230/460	2.0-2.0/1.0	1.60	69.8%	B	10⅝"	—	**6MA11**	✓
¾	3450	56C	208-230/460	2.6-2.6/1.3	1.50	74.0%	B	10¹¹⁄₁₆"	—	**3N819**	✓
1	3450	56C	208-230/460	3.3-3.2/1.6	1.40	74.0%	B	11⅝"	—	**3N820**	✓
	1750	143TC	208-230/460	3.3-3.1/1.5	1.15	82.5%	F	12½"	3	**30E442**	✓
	1725	56C	208-230/460	3.6-3.8/1.9	1.15	77.0%	B	10¾"	—	**3N685**	✓
	1155	145TC	208-230/460	3.8-3.6/1.8	1.15	80.0%	B	13½"	3	**30E443**	✓
1½	3450	56C	208-230/460	5.0-4.8/2.4	1.30	80.0%	B	10¾"	—	**3N821**	✓
	1725	56C	208-230/460	5.8-5.6/2.8	1.15	77.0%	B	11⅜"	—	**5N131**	✓
	1155	145TC	208-230/460	4.9-3.6/1.8	1.15	84.0%	F	11³⁄₁₆"	—	**33L643**	✓
2	3510	145TC	208-230/460	5.6-5.4/2.7	1.15	84.0%	B	11"	3	**30E446**	✓
	3450	56C	208-230/460	6.0-6.0/3.0	1.20	80.0%	B	11⅝"	—	**3N822**	✓
	1740	145TC	208-230/460	5.9-5.3/2.65	1.15	84.0%	B	12½"	3	**30E444**	✓
	1725	56C	208-230/460	6.6-6.4/3.2	1.15	82.5%	B	13¹³⁄₁₆"	—	**6LY97**	✓
	1170	184TC	230/460	6.8/3.4	1.15	85.5%	B	13¼"	3	**30E445**	✓
3	3490	145TC	208-230/460	8.9-8.4/4.2	1.15	84.0%	B	11½"	—	**30E447**	✓
	3450	56C	208-230/460	8.9-8.2/4.1	1.15	84.0%	B	12⅜"	—	**3N823**	✓
	1765	182TC	208-230/460	9.0-8.8/4.4	1.15	86.5%	F	12¾"	3	**30E448**	✓
Open Dripproof, Face/Base-Mount											
⅓	1725	56C	208-230/460	1.5-1.6/0.80	1.35	68.0%	B	9¹⁵⁄₁₆"	28	**30E450**	✓
½	1725	56C	208-230/460	2.3-2.2/1.1	1.25	74.7%	B	9¹⁵⁄₁₆"	—	**5N974**	✓
1	1725	56HC	208-230/460	3.6-3.8/1.9	1.15	77.0%	B	10¾"	—	**6MA12**	✓
1½	3450	56C	208-230/460	5.2-5.0/2.5	1.15	80.0%	B	10⁷⁄₁₆"	—	**6MA13**	✓
	1725	56HC	208-230/460	5.2/2.6	1.15	82.1%	F	11¹⁵⁄₁₆"	—	**6MA10**	✓
2	3450	56C	208-230/460	6.6-6.0/3.0	1.15	80.5%	B	11⅜"	—	**6N045**	✓
	1725	56HC	208-230/460	6.2-5.8/2.9	1.15	83.6%	B	13⅞"	—	**6MA14**	✓
Totally Enclosed Fan-Cooled, Face-Mount											
⅓	1725	56C	208-230/460	1.5-1.6/0.80	1.00	68.0%	B	10⁹⁄₁₆"	—	**3N686**	✓
½	3450	56C	230/460	2.0/1.0	1.00	72.0%	B	10¹⁵⁄₁₆"	—	**6NB73**	✓
	1725	56C	208-230/460	2.1-2.2/1.1	1.25	75.5%	B	10¹⁵⁄₁₆"	4	**3N687**	✓
¾	3450	56C	200-230/460	2.6-2.6/1.3	1.50	76.0%	B	11⅜"	—	**6NB74**	✓
	1725	56C	208-230/460	2.8-2.8/1.4	1.25	78.5%	B	11⅜"	—	**3N688**	✓
1	3450	56C	230/460	3.0/1.5	1.00	74.0%	B	12⅜"	—	**4N073**	✓
	3450	56C	208-230/460	3.7-3.7/1.85	1.15	74.0%	B	12¾"	—	**33L644**	✓
	1755	143TC	208-230/460	3.2-3.0/1.5	1.15	82.5%	F	12⅞"	3	**30E439**	✓
	1725	56C	208-230/460	3.6-3.8/1.9	1.25	77.0%	B	11⁷⁄₁₆"	—	**3N689**	✓
1½	3500	143TC	208-230/460	4.4-4.0/2.0	1.15	82.5%	F	12⅞"	3	**30E438**	✓
	3450	56C	208-230/460	4.8-4.6/2.3	1.15	80.0%	B	11¹³⁄₁₆"	3	**6NB72**	✓
	3450	56C	200-230/460	4.8-4.2/2.1	1.30	81.7%	B	12⁷⁄₁₆"	—	**4N075**	✓
	1725	56C	208-230/460	4.7-4.4/2.2	1.25	81.5%	B	12⁷⁄₁₆"	—	**3N690**	✓
	1725	145TC	208-230/460	4.5-4.4/2.2	1.15	84.0%	B	13¼"	—	**6NB79**	✓
2	3450	56C	208-230/460	6.0-6.0/3.0	1.15	80.0%	B	12⁹⁄₁₆"	3	**6NB70**	✓
	3450	56C	200-230/460	5.8-5.4/2.7	1.20	83.0%	B	13"	—	**4N077**	✓
	1725/1425	56C	208-230/460	6.2-5.8/2.9	1.15	82.5%	B	14¼"	—	**6WE77**	✓
3	3515	184TC	208-230/460	8.2-7.6/3.8	1.15	86.5%	F	14½"	3,28	**30E454**	✓
	3450	56C	230/460	8.0/4.0	1.00	84.0%	B	14¼"	—	**4N079**	✓
Totally Enclosed Fan-Cooled, Face/Base-Mount											
¼	1725	56C	208-230/460	1.2-1.3/0.65	1.15	62.0%	B	9⅞"	28	**30E440**	✓
	1140	56C	208-230/460	1.6-2.0/1.0	1.15	52.5%	F	11¼"	3,28	**30E461**	✓
⅓	1725/1425	56C	208-230/460	1.5-1.6/0.80	1.35	69.2%	B	11"	—	**6N055**	✓
	1140	56C	208-230/460	1.9-2.2/1.1	1.15	62.0%	F	11¼"	3,28	**30E462**	✓
½	3450	56C	208-230/460	2.2-2.5/1.3	1.25	65.5%	B	11"	—	**6N056**	✓
	3450	56C	208-230/460	2.0-2.2/1.1	1.15	66.0%	B	11¾"	28	**30E441**	✓
	1725/1425	56C	208-230/460	2.3-2.2/1.1	1.25	74.7%	B	11"	—	**6N057**	✓
	1140	56C	208-230/460	2.4-2.7/1.3	1.15	68.0%	F	11⅞"	3,28	**30E463**	✓
¾	3450	56C	208-230/460	2.6-2.6/1.3	1.25	73.2%	B	11⁷⁄₁₆"	—	**5N126**	✓
	3450	56C	208-230/460	3.0-3.2/1.6	1.15	74.0%	F	11⅞"	3,28	**30E457**	✓
	1725/1425	56C	208-230/460	3.3-3.0/1.5	1.25	70.8%	B	11⁷⁄₁₆"	—	**5N115**	✓
	1140	56C	208-230/460	3.2-3.2/1.6	1.15	74.0%	F	12¼"	3,28	**30E464**	✓
1	3450	56C	230/460	3.0/1.5	2.00	78.5%	B	12⅜"	—	**5N127**	✓
	3450	56C	208-230/460	3.7-3.7/1.85	1.15	84.0%	F	11¹³⁄₁₆"	3,28	**30E460**	✓
	1725	56C	208-230/460	3.6-3.8/1.9	1.25	77.0%	B	11⁷⁄₁₆"	—	**5N116**	✓
	1140	56HC	208-230/460	3.8-4.0/2.0	1.15	77.0%	F	12⅞"	3,28	**30E467**	✓
1½	3450	56C	208-230/460	5.0-4.8/2.4	1.15	77.3%	B	11¹³⁄₁₆"	—	**6N061**	✓
	3450	56C	208-230/460	4.6-4.6/2.3	1.15	80.0%	F	11⅞"	3,28	**30E458**	✓
	1725	56C	208-230/460	4.7-4.4/2.2	1.25	81.7%	B	12⁷⁄₁₆"	—	**5N117**	✓
	1140	56HC	230/460	5.8/2.9	1.00	77.5%	F	14¼"	28	**30E466**	✓
2	3450	56C	208-230/460	5.8-5.4/2.7	1.15	83.0%	B	13"	—	**5N128**	✓
	3450	56HC	208-230/460	6.0-6.0/3.0	1.15	80.0%	F	12¼"	3,28	**30E459**	✓
	1725	56HC	208-230/460	6.0-5.8/2.9	1.15	82.5%	B	13⅞"	3	**30E468**	✓
3	1770	182TC	208-230/460	8.6-7.8/3.9	1.15	89.5%	F	14½"	3,28	**30E455**	✓
	1725	56HCZ	230/460	8.6/4.3	1.00	85.5%	F	14⅞"	3,28	**30E465**	✓
Totally Enclosed Nonventilated, Face-Mount											
¼	1725	56C	208-230/460	1.1-1.2/0.60	1.35	67.4%	B	9½"	—	**5N114**	✓
Totally Enclosed Nonventilated, Face/Base-Mount											
⅓	3450	56C	208-230/460	1.6-1.8/0.90	1.15	65.0%	F	10⁷⁄₁₆"	3,28	**30E456**	✓

Footnotes: 3—50 Hz operation on rated voltage or 190/380V at rated HP and ⅚ of 60 Hz RPM at 1.0 SF. 4—Has 50 Hz operation on 190/380V at ⅚ of rated HP and 60 Hz rpm at 1.25 SF. 28—Removable base.

Open Dripproof, Face/Base-Mount

Open Dripproof, Face-Mount

TEFC, Face/Base-Mount

TEFC, Face-Mount

Totally Enclosed Fan-Cooled, Face-Mount

Totally Enclosed Fan-Cooled, Face/Base-Mount

Dayton

3-Phase 208-230/460V Face-Mount Motors

- Service factor: 1.15
- Bearings: ball
- Thermal protection: none
- Insulation: Class F, except Nos. 3N841 and 3N842 are B
- Max. ambient temp.: 40°C
- Rotation: CW/CCW
- Frame material: steel
- Warranty: 1 yr.
- Inverter rated, 10:1 variable and 2:1 constant torque
- Frequency: 60/50 Hz
- 50 Hz operation on 190/380V at rated HP and 5/6 of 60 Hz rpm

Refer to page 13 for more 3-Phase/C-Face motors. UL Recognized and CSA Certified.

HP	Nameplate RPM	Frame	Full Load Amps	Nom. Efficiency	Overall Length	Item No.	
Open Dripproof, Face-Mount							
	3460	56C	0.80-0.80/0.40	72.0	8 13/16"	**11W330**	✓
¼	1720	56C	1.1-1.0/0.50	68.0	9"	**4THT5**	✓
	1140	56C	1.3-1.3/0.70	65.0	8 13/16"	**11W331**	✓
	3460	56C	1.2-1.1/0.60	71.5	8 13/16"	**11W332**	✓
⅓	1725	56C	1.2-1.2/0.60	72.5	8 13/16"	**11W333**	✓
	1140	56C	1.5-1.5/0.70	68.0	10 3/8"	**11W334**	✓
	3445	56C	1.7-1.6/0.80	73.0	9"	**4THT6**	✓
½	1710	56C	1.8-1.7/0.90	74.0	9"	**11W335**	✓
	1140	56C	2.3-2.2/1.2	70.5	10 9/16"	**4THT7**	✓
	3420	56C	2.5-2.4/1.2	76.5%	9"	**11W336**	✓
¾	1720	56C	2.5-2.4/1.2	79.5	10 3/8"	**11W337**	✓
	1135	56C	3.0-3.0/1.5	74.0	10 7/8"	**11W338**	✓
	3420	56C	3.2-3.1/1.6	77.0	10 5/8"	**11W339**	✓
1	1730	143TC	3.2-3.1/1.6	82.5	11¼"	**4THT9**	✓
	1720	56C	3.3-3.2/1.6	78.5	10 9/16"	**4THT8**	✓
	1140	145TC	3.5-3.3/1.7	80.0	12¼"	**4THU1**	✓
	3465	143TC	4.3-4.0/2.0	82.5	10 15/16"	**4THU2**	✓
	3450	56C	4.5-4.3/2.2	81.0	10 7/8"	**11W340**	✓
1½	1735	145TC	4.4-4.2/2.1	84.0	12¼"	**4THU4**	✓
	1725	56C	4.7-4.6/2.3	81.5	10 7/8"	**4THU3**	✓
	1170	182TC	6.7-6.1/3.0	84.0	16¼"	**11W341**	✓
	3480	145TC	5.5-5.2/2.6	84.0	12¼"	**4THU5**	✓
2	1745	145TC	6.0-6.0/3.0	84.0	12¼"	**4THU7**	✓
	1725	56C	6.1-5.9/3.0	81.5	11 7/8"	**4THU6**	✓
3	3485	145TC	8.1-7.5/3.8	85.5	12¼"	**4THU8**	✓
	1750	182TC	9.2-8.3/4.2	86.5	16¼"	**11W342**	✓
Open Dripproof, Face/Base-Mount							
	3460	56C	0.80-0.80/0.40	72.0	8 13/16"	**11W343**	✓
¼	1720	56C	1.0-1.0/0.50	68.0	8 13/16"	**11W344**	✓
	1140	56C	1.3-1.3/0.70	65.0	8 13/16"	**11W345**	✓
	3460	56C	1.2-1.1/0.60	71.5	8 13/16"	**11W346**	✓
⅓	1725	56C	1.2-1.2/0.60	72.5	8 13/16"	**11W347**	✓
	1140	56C	1.5-1.5/0.70	68.0	10 3/8"	**11W348**	✓
	3445	56C	1.7-1.6/0.80	73.0	8 13/16"	**11W349**	✓
½	1710	56C	1.8-1.7/0.90	74.0	8 7/8"	**4THU9**	✓
	1140	56C	2.3-2.3/1.2	70.5	10 3/8"	**11W350**	✓
	3420	56C	2.5-2.4/1.2	76.5%	8 13/16"	**11W351**	✓
¾	1720	56C	2.5-2.4/1.2	79.5	10 3/8"	**11W352**	✓
	1135	56C	3.0-3.0/1.5	74.0	10 7/8"	**11W353**	✓
	3420	56C	3.2-3.1/1.6	77.0	10 3/8"	**11W354**	✓
1	1750	143/5TC	3.0-2.9/1.5	85.5	12¼"	**4THV2**	✓
	1710	56HC	3.3-3.2/1.6	78.5	11"	**4THV1**	✓
	1150	143/5TC	3.6-3.5/1.8	82.5	11 7/8"	**11W355**	✓
	3450	56C	4.5-4.3/2.2	79.5	10 7/8"	**4THV3**	✓
1½	1740	143/5TC	4.3-4.1/2.1	86.5	12¼"	**4THV5**	✓
	1725	56HC	4.7-4.6/2.3	81.5	11 7/8"	**4THV4**	✓
	1170	143/5TC	6.4-6.0/3.0	86.5	14 3/8"	**11W356**	✓
	3505	143/5TC	5.4-5.1/2.6	86.5	11 7/8"	**11W357**	✓
2	3455	56C	5.8-5.6/2.8	82.5	10 7/8"	**4THV6**	✓
	3455	56HC	5.8-5.6/2.8	82.5	10 7/8"	**11W358**	✓
	1740	143/5TC	5.8-5.6/2.8	86.5	12¼"	**4THV8**	✓
	1725	56HC	6.1-5.9/3.0	82.5	11 7/8"	**4THV7**	✓
3	3480	143/5TC	8.1-7.3/3.7	85.5	11 7/8"	**11W359**	✓

HP	Nameplate RPM	Frame	Full Load Amps	Nom. Efficiency	Overall Length	Item No.	
Totally Enclosed Fan-Cooled, Face-Mount							
	3460	56C	0.80-0.80/0.40	72.0	10 9/16"	**11W360**	✓
¼	1725	42CZ	1.2-1.2/0.60	66.0%	9 3/16"	**3N841**	✓
	1140	56C	1.3-1.3/0.70	65.0	10½"	**4THW1**	✓
	3460	56C	1.2-1.1/0.60	71.5	10½"	**4THW2**	✓
⅓	1725	42CZ	1.5-1.5/0.75	70.0%	10"	**3N842**	✓
	1725	56C	1.2-1.2/0.60	72.5	10½"	**4THW3**	✓
	1140	56C	1.5-1.5/0.70	68.0	12 1/8"	**4THW4**	✓
	3445	56C	1.7-1.6/0.80	73.0	10 9/16"	**11W361**	✓
½	1705	56C	1.8-1.7/0.90	74.0	10½"	**4THW5**	✓
	1140	56C	2.3-2.3/1.2	70.5	12 1/8"	**4THW6**	✓
	3420	56C	2.5-2.4/1.2	76.5%	10 9/16"	**11W362**	✓
¾	1720	56C	2.5-2.4/1.2	79.5	12 1/8"	**4THW7**	✓
	1135	56C	3.0-3.0/1.5	74.0	12 1/8"	**4THW8**	✓
	1135	143TC	3.0-3.0/1.5	74.0	12 1/8"	**4THW9**	✓
	3420	56C	3.2-3.1/1.6	77.0	12 1/8"	**4THX1**	✓
	1735	143TC	3.2-3.1/1.6	82.5%	12 13/16"	**4THX3**	✓
1	1710	56C	3.2-3.1/1.6	78.5	12 1/8"	**4THX2**	✓
	1145	56C	3.7-3.7/1.9	78.5	12 1/8"	**4THX4**	✓
	1140	145TC	3.5-3.3/1.7	80.0	13 1/8"	**4THX5**	✓
	3465	143TC	4.3-4.0/2.0	82.5	12 1/8"	**4THX7**	✓
	3450	56C	4.5-4.3/2.2	81.0	12 1/8"	**4THX6**	✓
1½	1735	145TC	4.4-4.2/2.1	84.0	13 1/8"	**4THX9**	✓
	1725	56C	4.7-4.6/2.3	81.5	12 1/8"	**4THX8**	✓
	1140	56C	5.3-5.2/2.6	79.0	13 13/16"	**4THY1**	✓
	3480	145TC	5.5-5.2/2.6	84.0	13 1/8"	**4THY3**	✓
	3455	56C	5.8-5.6/2.8	82.5	12 1/8"	**4THY2**	✓
2	1745	145TC	6.0-6.0/3.0	84.0	13 1/8"	**4THY5**	✓
	1725	56C	6.1-5.9/3.0	81.5	13 13/16"	**4THY4**	✓
	3485	145TC	8.1-7.5/3.8	85.5	13 1/8"	**4THY6**	✓
3	1740	145TC	8.8-7.9/4.0	87.5	14 5/8"	**11W363**	✓
	1730	56C	8.8-8.3/4.2	85.5	13 13/16"	**4THY7**	✓
Totally Enclosed Fan-Cooled, Face/Base-Mount							
	3460	56C	0.80-0.80/0.40	72.0	10 9/16"	**11W364**	✓
¼	1720	56C	1.0-1.0/0.50	68.0	10 9/16"	**11W365**	✓
	1140	56C	1.3-1.3/0.70	65.0	10 9/16"	**11W366**	✓
	3460	56C	1.2-1.1/0.60	71.5	10 9/16"	**11W367**	✓
⅓	1725	56C	1.2-1.2/0.60	72.5	10 9/16"	**4THY8**	✓
	1140	56C	1.5-1.5/0.70	68.0	12 1/8"	**11W368**	✓
	3445	56C	1.7-1.6/0.80	73.0	10 9/16"	**4THY9**	✓
½	1710	56C	1.8-1.7/0.90	74.0	10 9/16"	**4THZ1**	✓
	1140	56C	2.3-2.3/1.2	70.5	12 1/8"	**4THZ2**	✓
	3420	56C	2.5-2.4/1.2	76.5%	10 9/16"	**4THZ3**	✓
¾	1720	56C	2.5-2.4/1.2	79.5	12 1/8"	**4THZ4**	✓
	1135	56C	3.0-3.0/1.5	74.0	12 13/16"	**4THZ5**	✓
	3420	56C	3.2-3.1/1.6	77.0	12 1/8"	**4THZ6**	✓
	1750	143/5TC	3.0-2.9/1.5	85.5	13 1/8"	**4THZ8**	✓
1	1710	56C	3.3-3.2/1.6	78.5	12 1/8"	**4THZ7**	✓
	1150	143/5TC	3.6-3.5/1.8	82.5	13 1/8"	**4TJA2**	✓
	1145	56C	3.7-3.7/1.9	78.5	12 13/16"	**4TJA1**	✓
	3510	143/5TC	4.2-4.0/2.0	85.5	13 1/8"	**4TJA4**	✓
	3480	56C	4.5-4.3/2.2	81.0	12 13/16"	**4TJA3**	✓
1½	1740	143/5TC	4.3-4.1/2.1	86.5	13 1/8"	**4TJA6**	✓
	1725	56C	4.7-4.6/2.3	81.5	12 13/16"	**4TJA5**	✓
	1170	182TC	6.9-6.3/3.1	87.5	16 9/16"	**11W369**	✓
	1140	56HC	5.3-5.2/2.6	79.0	12 13/16"	**11W370**	✓
	3505	143/5TC	5.4-5.1/2.6	86.5	13 1/8"	**4TJA8**	✓
2	3455	56C	5.8-5.6/2.8	82.5	12 13/16"	**4TJA7**	✓
	1740	143/5TC	5.8-5.6/2.8	86.5	13 1/8"	**11W371**	✓
	1725	56HC	6.1-5.9/3.0	81.5	12 13/16"	**11W372**	✓
	3480	143/5TC	8.1-7.3/3.7	86.5	13 1/8"	**4TJA9**	✓
3	1755	182/4TC	10.2-9.5/4.7	89.5	16 9/16"	**11W373**	✓
	1730	56HC	8.8-8.3/4.2	85.5	13 13/16"	**11W374**	✓
Totally Enclosed Nonventilated, Face-Mount							
¼	1720	56C	1.0-1.0/0.50	68.0	9"	**4THV9**	✓

No. 31TU22

Dayton

3-Phase NEMA Premium® Motors

- Voltage: 208-230/460 (usable on 200V at 1.0 SF)
- Frame: 143/5TC/56HCZ
- Mounting: base/face
- Service Factor: ODP 1.15, TEFC 1.25
- Bearings: ball
- Thermal protection: none
- Insulation: Class F
- Inverter rated, meets NEMA MG 1 Part 31; 10:1 variable and 4:1 constant torque
- Max. ambient temp.: 40°C
- Rotation: CW/CCW
- Frame: rolled steel
- Shaft dia.: 7/8"
- All motors are 50/60 Hz

Include Dayton integral and fractional HP motor installation guide. UL Recognized and CSA Certified.

HP	Nameplate RPM	Full Load Amps	Nom. Efficiency	Shaft Length	Overall Length	Item No.	
Open Dripproof							
	3450	3.0-2.9/1.5	80.0%	2⅛"	13¼"	**31TU22**	✓
1	1750	3.2-3.1/1.6	85.5%	2⅛"	13¼"	**31TU23**	✓
	1150	4.0-4.0/2.0	82.5%	2⅛"	13¼"	**31TU24**	✓
	3450	4.2-3.8/1.9	85.5%	2⅛"	13¼"	**31TU25**	✓
1½	1740	4.4-4.2/2.1	86.5%	2⅛"	13¼"	**31TU26**	✓
	3480	5.5-5.0/2.5	85.5%	2⅛"	13¼"	**31TU27**	✓
2	1740	5.9-5.0/2.5	86.5%	2⅛"	13¼"	**31TU28**	✓
	3480	8.2-7.3/3.7	85.5%	2⅛"	13¼"	**31TU29**	✓
3	1740	8.2-7.6/3.8	89.5%	2⅛"	15¼"	**31TU30**	✓
Totally Enclosed Fan-Cooled							
	3450	2.9-2.7/1.4	81.5%	2⅛"	13⅛"	**31TU31**	✓
1	1750	3.1-3.0/1.5	85.5%	2⅛"	13⅛"	**31TU32**	✓
	1150	3.6-3.5/1.8	82.5%	2⅛"	13⅛"	**31TU33**	✓
	3510	4.2-3.9/1.9	84.0%	2⅛"	13⅛"	**31TU34**	✓
1½	1740	4.5-4.3/2.1	86.5%	2⅛"	13⅛"	**31TU35**	✓
2	3505	5.4-4.9/2.5	85.5%	2⅛"	13⅛"	**31TU36**	✓
	1740	5.9-5.7/2.8	86.5%	2⅛"	13⅛"	**31TU37**	✓
3	3480	8.1-7.2/3.6	86.5%	2⅛"	13⅛"	**31TU38**	✓

★ Indicates Grainger Choice products.

✓= Repair & Replacement Coverage Available

Unimount 3-Phase NEMA Premium® Motors

NEMA Premium

- Enclosure: totally enclosed fan-cooled
- Service factor: 1.25
- Bearings: ball
- Thermal protection: none
- Insulation: Class F
- Inverter rated
- Max. ambient temp.: 40°C
- Rotation: CW/CCW
- Warranty: 2-yr.

Feature optimized slot design and low-loss stator laminating for greater efficiency. High temperature pulse endurance performance and superior mechanical shear stability. 60/50 Hz. Painted epoxy finish resists corrosion from saltwater.

Face/Base-Mount

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Nom. Efficiency	Mfr. Model	Item No.
Face-Mount							
Steel							
1	1800	143TC	208-230/460	3.1-3.0/1.5	82.5%	U1E2DCR	**23J921** ✓
1½	1800	143TC	208-230/460	4.6-4.3/2.2	84.0%	U32E2DCR	**23J922** ✓
2	1800	145TC	208-230/460	6.1-5.9/2.9	84.0%	U2E2DCR	**23J923** ✓
3	3600	145TC	208-230/460	8.5-7.3/3.6	85.5%	U3E1A14CR	**23J924** ✓
Aluminum							
1½	1175	182TC	208-230/460	4.8-4.7/2.3	87.5%	U32P3DCR	**29AH96** ✓
2	1175	184TC	208-230/460	6.4-6.2/3.1	88.5%	U2P3DCR	**29AH97** ✓
	3600	182TC	208-230/460	8.7-8.0/4.0	85.5%	U3E1DCR	**23J925** ✓
	3600	182TCH*	208-230/460	8.7-8.0/4.0	85.5%	U3E1DKR	**23J926** ✓
	3540	182TC	208-230/460	8.4-7.8/3.9	86.5%	U3P1DCR	**29AH98** ✓
	3540	182TCH*	208-230/460	8.4-7.8/3.9	86.5%	U3P1DKR	**29AH99** ✓
3	1800	182TC	208-230/460	8.5-7.9/3.9	87.5%	U3E2DCR	**23J927** ✓
	1770	182TCH*	208-230/460	8.4-7.8/3.9	89.5%	U3P2DKR	**29AJ02** ✓
	1765	182TC	208-230/460	8.4-7.8/3.9	89.5%	U3P2DCR	**29AJ01** ✓
	1200	213TC	208-230/460	9.7-9.1/4.5	87.5%	U3E3DCR	**23J928** ✓
	1175	213TC	208-230/460	9.3-8.6/4.3	89.5%	U3P3DCR	**29AJ03** ✓
	3600	184TC	208-230/460	13.8-12.3/6.1	87.5%	U5E1DCR	**23J929** ✓
	3520	184TC	208-230/460	13.4-12.2/6.1	88.5%	U5P1DCR	**29AJ04** ✓
	3520	184TCH*	208-230/460	13.4-12.2/6.1	88.5%	U5P1DKR	**29AJ05** ✓
	1800	184TC	208-230/460	14.0-12.7/6.3	87.5%	U5E2DCR	**23J931** ✓
5	1800	184TCH*	208-230/460	14.0-12.7/6.3	87.5%	U5E2DKR	**23J930** ✓
	1760	184TC	208-230/460	13.6-12.3/6.2	89.5%	U5P2DCR	**29AJ06** ✓
	1760	184TCH*	208-230/460	13.6-12.3/6.2	89.5%	U5P2DKR	**29AJ07** ✓
	1200	215TC	208-230/460	15.6-14.5/7.3	87.5%	U5E3DCR	**23J932** ✓
	1170	215TC	208-230/460	15.0-14.0/7.0	89.5%	U5P3DCR	**29AJ08** ✓
	3600	213TC	208-230/460	20.4-18.4/9.2	88.5%	U7E1DCR	**23J933** ✓
	3530	213TC	208-230/460	19.9-17.8/8.9	89.5%	U7P1DCR	**29AJ09** ✓
7½	1800	213TC	208-230/460	20.6-18.8/9.4	89.5%	U7E2DCR	**23J934** ✓
	1765	213TC	208-230/460	20.0-18.2/9.1	91.7%	U7P2DCR	**29AJ10** ✓
	1200	254TC	208-230/460	20.8-18.8/9.4	89.5%	U7E3DCR	**23J935** ✓
	1180	254TC	208-230/460	20.6-19/9.5	91%	U7P3DCR	**29AJ11** ✓
	3600	215TC	208-230/460	26.7-23.8/11.9	89.5%	U10E1DCR	**23J936** ✓
	3520	215TC	208-230/460	26.4-23.5/11.8	90.2%	U10P1DCR	**29AJ12** ✓
10	1800	215TC	208-230/460	27.2-24.6/12.3	89.5%	U10E2DCR	**23J937** ✓
	1760	215TC	208-230/460	26.5-23.9/12.0	91.7%	U10P2DCR	**29AJ13** ✓
	1200	256TC	208-230/460	27.5-25.0/12.5	89.5%	U10E3DCR	**23J938** ✓
	1180	256TC	208-230/460	27.1-24.6/12.3	91%	U10P3DCR	**29AJ14** ✓
	3600	254TC	208-230/460	40.0-35.0/17.6	90.2%	U15E1DCR	**23J939** ✓
	3540	254TC	208-230/460	39.0-35.0/17.3	91%	U15P1DCR	**29AJ16** ✓
15	3495	215TC	208-230/460	40.0-35.0/17.4	91%	U15P1DFCR	**29AJ15** ✓
	1800	254TC	208-230/460	41.0-37.0/18.5	91.0%	U15E2DCR	**23J940** ✓
	1775	254TC	208-230/460	40.0-37.0/18.4	92.4%	U15P2DCR	**29AJ17** ✓
	3600	256TC	208-230/460	53.0-47.0/23.4	90.2%	U20E1DCR	**23J941** ✓
	3530	256TC	208-230/460	53.0-46.0/23.0	91%	U20P1DCR	**29AJ18** ✓
20	1800	256TC	208-230/460	54.0-49.0/24.3	91.0%	U20E2DCR	**23J942** ✓
	1770	256TC	208-230/460	53.0-47.0/23.7	93%	U20P2DCR	**29AJ19** ✓
	3530	284TC	208-230/460	65.0-57.0/28.4	91.7%	U25P1DCR	**29AJ20** ✓
25	1800	284TC	208-230/460	67.0-59.0/29.6	92.4%	U25E2DCR	**23J943** ✓
	1770	284TC	208-230/460	65.0-59.0/29.3	93.6%	U25P2DCR	**29AJ21** ✓
30	1800	286TC	208-230/460	80.0-72.0/36.0	92.4%	U30E2DCR	**23J944** ✓
	1770	286TC	208-230/460	78.0-73.0/36.0	93.6%	U30P2DCR	**29AJ22** ✓
Face/Base-Mount							
Steel							
1	1800	143TC	208-230/460	3.1-3/1.5	85.5%	U1P2DC	**23J887** ✓
	1200	145TC	208-230/460	3.6-3.5/1.8	82.5%	U1P3DC	**23J888** ✓
1½	3600	143TC	208-230/460	4.2-3.9/1.9	84.0%	U32P1DC	**23J889** ✓
	1800	145TC	208-230/460	4.5-4.3/2.1	86.5%	U32P2DC	**23J890** ✓
2	3600	145TC	208-230/460	5.4-4.9/2.5	85.5%	U2P1DC	**23J892** ✓
	1800	145TC	208-230/460	5.9-5.7/2.8	86.5%	U2P2DC	**23J893** ✓
3	3600	145TC	208-230/460	8.1-7.2/3.6	86.5%	U3P1A14C	**23J895** ✓
Aluminum							
1½	1200	182TC	208-230/460	4.8-4.7/2.3	87.5%	U32P3DC	**23J891** ✓
2	1200	184TC	208-230/460	6.4-6.2/3.1	88.5%	U2P3DC	**23J894** ✓
	3600	182TC	208-230/460	8.4-7.8/3.9	88.5%	U3P1DC	**23J896** ✓
	3600	182TCH*	208-230/460	8.4-7.8/3.9	88.5%	U3P1DK	**23J897** ✓
3	1800	182TC	208-230/460	8.4-7.8/3.9	89.5%	U3P2DC	**23J898** ✓
	1800	182TCH*	208-230/460	8.4-7.8/3.9	89.5%	U3P2DK	**23J899** ✓
	1200	213TC	208-230/460	9.3-8.6/4.3	89.5%	U3P3DC	**23J901** ✓
	3600	184TC	208-230/460	13.4-12.2/6.1	89.5%	U5P1DC	**23J902** ✓
	3600	184TCH*	208-230/460	13.4-12.2/6.1	89.5%	U5P1DK	**23J903** ✓
5	1800	184TC	208-230/460	13.6-12.3/6.2	90.2%	U5P2DC	**23J905** ✓
	1800	184TCH*	208-230/460	13.6-12.3/6.2	90.2%	U5P2DK	**23J904** ✓
	1200	215TC	208-230/460	15.0-14.0/7.0	90.2%	U5P3DC	**23J906** ✓
	3600	213TC	208-230/460	19.7-17.9/8.9	91.0%	U7P1DC	**23J907** ✓
7½	1800	213TC	208-230/460	20.0-18.2/9.1	91.7%	U7P2DC	**23J908** ✓
	1200	254TC	208-230/460	20.6-19/9.5	91.0%	U7P3DC	**23J909** ✓
	3600	215TC	208-230/460	26.4-23.5/11.8	91.7%	U10P1DC	**23J910** ✓
10	1800	215TC	208-230/460	26.5-23.9/12.0	91.7%	U10P2DC	**23J911** ✓
	1200	256TC	208-230/460	27.1-24.6/12.3	91.7%	U10P3DC	**23J912** ✓
	3600	215TC	208-230/460	39.0-35.0/17.6	91.0%	U15P1DFC	**23J913** ✓
15	3600	254TC	208-230/460	39.0-35.0/17.7	91.0%	U15P1DC	**23J914** ✓
	1800	254TC	208-230/460	40.0-37.0/18.4	92.4%	U15P2DC	**23J915** ✓
20	3600	256TC	208-230/460	51.0-46.0/22.9	91.0%	U20P1DC	**23J916** ✓
	1800	256TC	208-230/460	53.0-47.0/23.5	93.0%	U20P2DC	**23J917** ✓
25	3600	284TC	208-230/460	65.0-57.0/28.4	91.7%	U25P1DC	**23J918** ✓
	1800	284TC	208-230/460	65.0-59.0/29.3	93.6%	U25P2DC	**23J919** ✓
30	1800	286TC	208-230/460	78.0-73.0/36.0	93.6%	U30P2DC	**23J920** ✓
Base-Mount							
Steel							
1	1800	143T	208-230/460	3.1-3/1.5	85.5%	U1P2D	**23J854** ✓
	1200	145T	208-230/460	3.6-3.5/1.8	82.5%	U1P3D	**23J855** ✓
1½	3600	143T	208-230/460	4.2-3.9/1.9	84.0%	U32P1D	**23J856** ✓
	1800	145T	208-230/460	4.5-4.3/2.1	86.5%	U32P2D	**23J857** ✓
2	3600	145T	208-230/460	5.4-4.9/2.5	85.5%	U2P1D	**23J859** ✓
	1800	145T	208-230/460	5.9-5.7/2.8	86.5%	U2P2D	**23J860** ✓
3	3600	145T	208-230/460	8.1-7.2/3.6	86.5%	U3P1DF	**23J862** ✓
Aluminum							
1½	1200	182T	208-230/460	4.8-4.7/2.3	87.5%	U32P3D	**23J858** ✓
2	1200	184T	208-230/460	6.4-6.2/3.1	88.5%	U2P3D	**23J861** ✓
	3600	182T	208-230/460	8.4-7.8/3.9	87.5%	U3P1D	**23J863** ✓
3	1800	182T	208-230/460	8.4-7.8/3.9	89.5%	U3P2D	**23J864** ✓
	1200	213T	208-230/460	9.3-8.6/4.3	89.5%	U3P3D	**23J865** ✓
	3600	184T	208-230/460	13.4-12.2/6.1	89.5%	U5P1D	**23J866** ✓
5	1800	184T	208-230/460	13.6-12.3/6.2	90.2%	U5P2D	**23J867** ✓
	1200	215T	208-230/460	15.0-14.0/7.0	90.2%	U5P3D	**23J868** ✓
	3600	213T	208-230/460	19.9-17.8/8.9	91.0%	U7P1D	**23J869** ✓
7½	3600	215T	208-230/460	19.9-17.7/8.9	89.5%	U7P1AF	**23J870** ✓
	1800	213T	208-230/460	20.0-18.2/9.1	91.7%	U7P2D	**23J871** ✓
	1200	254T	208-230/460	20.6-19/9.5	91.0%	U7P3D	**23J872** ✓
	3600	215T	208-230/460	26.4-23.5/11.8	91.0%	U10P1D	**23J873** ✓
10	1800	215T	208-230/460	26.5-23.9/12.0	91.7%	U10P2D	**23J874** ✓
	1200	256T	208-230/460	27.1-24.6/12.3	91.7%	U10P3D	**23J875** ✓
	3600	215T	208-230/460	40.0-35.0/17.4	91.0%	U15P1AF	**23J876** ✓
15	3600	254T	208-230/460	39.0-35.0/17.9	91.0%	U15P1D	**23J877** ✓
	1800	254T	208-230/460	40.0-37.0/18.4	92.4%	U15P2D	**23J878** ✓
20	3600	256T	208-230/460	53.0-46.0/23.1	91.7%	U20P1D	**23J879** ✓
	1800	256T	208-230/460	53.0-47.0/23.5	93.0%	U20P2D	**23J880** ✓
	3600	284T	208-230/460	65.0-57.0/28.4	91.7%	U25P1D	**23J881** ✓
25	3600	284TS	208-230/460	65.0-57.0/28.4	91.7%	U25P1DS	**23J882** ✓
	1800	284T	208-230/460	65.0-59.0/29.3	93.6%	U25P2D	**23J883** ✓
	1800	284TS	208-230/460	65.0-59.0/29.3	93.6%	U25P2DS	**23J884** ✓
30	1800	286T	208-230/460	78.0-70.0/35.0	93.6%	U30P2D	**23J885** ✓
	1800	286TS	208-230/460	78.0-70.0/35.0	93.6%	U30P2DS	**23J886** ✓

**** Face dimensions match 56C/143-145TC frame motors (rabbet dia. = 4.50" and bolt circle dia. = 5-7/8", bolt hole threads = 3/8"-16 UNC).***

Motor Brake Kits

- IP23, rolled steel enclosure
- 1 to 30 HP
- 1200 to 3600 rpm
- 3-phase, 230/460V

Kit easily installs on back of Unimount motors to convert to brake-motor use. Kit size is determined by NEMA frame and ft.-lb. of static torque required for the application. Include mounting hardware.

Note: A start/stop cycle of no more than 1 stop per minute is acceptable for these brakes when used with a motor and reducer.

Type	Static Torque	Inrush Amps	Holding Amps	Mfr. Model	Item No.
56, 143T, 143TC, 145T, 145TC	1.5 ft.-lb.	0.9	0.08	964220	**23J945** ✓
	3 ft.-lb.	0.9	0.08	964223	**23J946** ✓
	6 ft.-lb.	1.1	0.08	964225	**23J947** ✓
	10 ft.-lb.	1.1	0.08	964227	**23J948** ✓
182T, 182TC, 182TCH, 184T, 184TC, 184TCH	10 ft.-lb.	1.1	0.08	958195	**23J949** ✓
	15 ft.-lb.	1	0.1	958193	**23J950** ✓
213T, 213TC, 215T, 215TC	25 ft.-lb.	1	0.1	364963	**23J951** ✓
	35 ft.-lb.	4.2	0.3	364964	**23J952** ✓

No. 23J945

No. 6FDP4

NEMA Premium™

WEG

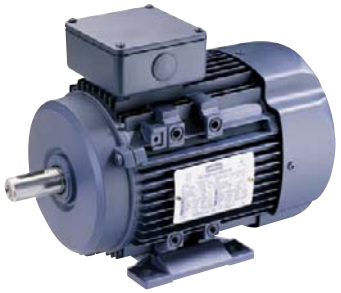
3-Phase Face/Base-Mount Motors

- Voltage: 208-230/460
- Bearings: ball, regreasable 254TC frame and above
- Thermal protection: none
- Insulation: Class F, with Class B rise
- Max. ambient temp.: 40°C
- Rotation: CW/CCW
- Inverter rated 20:1 constant torque; 100:1 variable torque; warranty: 3 yr.

Corrosion-resistant finish. V-ring slingers on both endshields block debris from entering housing cavity. Automatic pressure-compensated drain plugs. Gasketed conduit boxes are threaded for easier installation. Stainless steel, laser-etched nameplate maintains information over long life. TEFC models are severe-duty rated. All models meet NEMA Premium® Standards.

Note: Motors are nameplated 60/50 HZ and maintain nameplate HP rating at 50 HZ.

HP	Nameplate RPM	Frame	Full Load Amps	Service Factor	Nom. Efficiency	Overall Length	Mfr. Model	Item No.	
Open Dripproof, Cast-Iron Frame									
1½	1740	145TC	2.2	1.15	86.5%	12 1/16"	00158OT3E145TC	**12N908**	✓
2	1730	145TC	2.9	1.15	86.5%	12 1/16"	00218OT3E145TC	**12N910**	✓
5	1755	184TC	6.4	1.15	89.5%	14 5/16"	00518OT3E184TC	**12N914**	✓
7½	1760	213/5TC	9.0	1.15	91.0%	17 3/16"	00718OT3E213TC	**12N916**	✓
10	1765	213/5TC	12.2	1.15	91.7%	17 3/16"	01018OT3E215TC	**12N918**	✓
15	1775	254TC	18.6	1.15	93.0%	20 11/16"	01518OT3E254TC	**12N920**	✓
20	1770	256TC	25.0	1.15	93.0%	22 3/8"	02018OT3E256TC	**12N922**	✓
25	1770	284TC	29.9	1.15	93.6%	23 3/8"	02518OT3E284TC	**12N924**	✓
30	1770	286TC	35.4	1.15	94.1%	24 7/8"	03018OT3E286TC	**12N926**	✓
Totally Enclosed Fan-Cooled, Cast-Iron Frame									
1	3495	143TC	3.1-2.8/1.4	1.25	78.5%	12 3/8"	00136ET3E143TC-W22	**6FDP4**	✓
	1760	143TC	3.0-2.8/1.4	1.25	85.5%	12 3/8"	00118ET3E143TC-W22	**6PTP7**	✓
1½	3490	143TC	4.2-3.8/1.9	1.25	84.0%	12 3/8"	00156ET3E143TC-W22	**6FDT0**	✓
	1755	145TC	4.3-4.0/2.0	1.25	86.5%	13 3/8"	00158ET3E145TC-W22	**6FDP5**	✓
2	3480	145TC	5.6-5.0/2.5	1.25	85.5%	13 3/8"	00236ET3E145TC-W22	**6FDP7**	✓
	1750	145TC	5.7-5.2/2.6	1.25	86.5%	13 3/8"	00218ET3E145TC-W22	**6FDP6**	✓
3	3510	182TC	8.0-7.2/3.6	1.25	86.5%	14 7/8"	00336ET3E182TC-W22	**6FDP9**	✓
	1760	182TC	8.5-7.7/3.8	1.25	89.5%	14 7/8"	00318ET3E182TC-W22	**6FDP8**	✓
5	3500	184TC	13.0-11.8/5.9	1.25	88.5%	15 7/8"	00536ET3E184TC-W22	**6FDR1**	✓
	1755	184TC	14.3-12.9/6.4	1.25	89.5%	15 7/8"	00518ET3E184TC-W22	**6FDR0**	✓
7½	3520	213TC	19.4-17.5/8.7	1.25	89.5%	18"	00736ET3E213TC-W22	**6FDR3**	✓
	1765	213TC	19.9-18.0/9.0	1.25	91.7%	18"	00718ET3E213TC-W22	**6FDR2**	✓
10	3515	215TC	25.7-23.2/11.6	1.25	90.2%	19½"	01036ET3E215TC-W22	**6FDR5**	✓
	1760	215TC	27.4-24.8/12.4	1.25	91.7%	19½"	01018ET3E215TC-W22	**6FDR4**	✓
15	3530	254TC	37.6-34.4/17.2	1.25	91.0%	23¼"	01536ET3E254TC-W22	**6FDR7**	✓
	1765	254TC	39.8-36.0/18.0	1.25	92.4%	23¼"	01518ET3E254TC-W22	**6FDR6**	✓
20	3520	256TC	51.3-46.4/23.2	1.25	91.0%	25"	02036ET3E256TC-W22	**6FDR9**	✓
	1765	256TC	53.3-48.2/24.1	1.25	93.0%	25"	02018ET3E256TC-W22	**6FDR8**	✓
25	3535	284TSC	63.0-57.0/28.5	1.25	91.7%	25 1/16"	02536ET3E284TSC-W22	**6FDT1**	✓
	1765	284TC	65.2-59.0/29.5	1.25	93.6%	26 7/16"	02518ET3E284TC-W22	**6FDT2**	✓
30	3535	286TSC	74.8-67.6/33.8	1.25	91.7%	26 9/16"	03036ET3E286TSC-W22	**6FDT3**	✓
	1765	286TC	77.6-70.2/35.1	1.25	93.6%	27 5/16"	03018ET3E286TC-W22	**6FDT4**	✓
40	3555	324TSC	101.0-91.6/45.8	1.25	92.4%	28 5/8"	04036ET3E324TSC-W22	**6FDT5**	✓
	1775	324TC	107.0-96.4/48.2	1.25	94.1%	29 5/8"	04018ET3E324TC-W22	**6FDT6**	✓
50	3550	326TSC	124.0-112.0/56.1	1.25	93.0%	29 5/8"	05036ET3E326TSC-W22	**6FDT7**	✓
	1775	326TC	131.0-118.0/59.2	1.25	94.5%	31 1/8"	05018ET3E326TC-W22	**6FDT8**	✓
60	3560	364/5TSC	148.0-134.0/67.0	1.25	93.6%	32¼"	06036ET3E364TSC-W22	**6FDT9**	✓
	1775	364/5TC	151.0-137.0/68.3	1.25	95.0%	34¼"	06018ET3E364TC-W22	**6FDU0**	✓
75	3555	364/5TSC	181.0-164.0/81.9	1.25	93.6%	32¼"	07536ET3E365TSC-W22	**6FDU1**	✓
	1775	364/5TC	186.0-168.0/84.1	1.25	95.4%	34¼"	07518ET3E365TC-W22	**6FDU2**	✓



B3 Base Mount

B3/B5 Base/ D-Flange Mount

LEESON

3-Phase IEC Metric Rigid Base- and Face-Mount Motors

- Enclosure: IP55
- Service factor: 1.15
- Insulation: Class F
- Voltage: 230/460 at 60Hz, 200/400 at 50Hz
- Max. ambient temp.: 40°C
- Thermal protection: none
- Bearings: ball
- Rotation: CW/CCW

Steel fan cover and low-noise fan maximize airflow efficiency. Inverter-Rated Insulation System (IRIS™) provides protection against voltage spikes induced by variable frequency drives. V-seals on both drive end and nondrive end. Multimount repositionable feet (aluminum frame units only) allow 3 conduit box positions. Terminal boards included. Suitable as replacement motors for machine tools, textile machinery, and other equipment with metric dimensions. UL Recognized, CSA Certified, and CE Compliant.

				B3 BASE MOUNT				B3/B5 BASE/D-FLANGE MOUNT				B3/B14 BASE/C-FACE MOUNT			
HP	kW	Nameplate RPM	Full Load Amps	Frame	Mfr. Model	Item No.		Frame	Mfr. Model	Item No.		Frame	Mfr. Model	Item No.	
Aluminum Frame															
	0.19	3355	1.0/0.5	—	—	—		—	—	—		D63C	192017.30	**3GVP4**	✓
¼	0.19	1655	1.2/0.6	D63	192011.30	**2NB50**	✓	—	—	—		D63C	192018.30	**2NE16**	✓
	0.19	1105	1.2/0.6	D71	192012.30	**3GVK3**	✓	—	—	—		D71C	192019.30	**3GVP5**	✓
	0.25	3355	1.2/0.6	D63	192020.30	**3GVK4**	✓	—	—	—		D63C	192027.30	**2NE18**	✓
⅓	0.25	1705	1.4/0.7	D71	192021.30	**3GVK5**	✓	D71D	192025.30	**3GVN3**	✓	D71C	192028.30	**2NE20**	✓
	0.25	1135	1.4/0.7	D80	192022.30	**3GVK6**	✓	D80D	192026.30	**3GVN4**	✓	D80C	192029.30	**3GVP6**	✓
	0.37	3435	1.6/0.80	D71	192030.30	**3GVK7**	✓	D71D	192034.30	**3GVN5**	✓	D71C	192037.30	**3GVP7**	✓
½	0.37	1650	2.0/1.0	D71	192031.30	**2NB52**	✓	D71D	192035.30	**2NB76**	✓	D71C	192038.30	**2NE22**	✓
	0.37	1125	2.0/1.0	D80	192032.30	**3GVK8**	✓	—	—	—		D80C	192039.30	**3GVP8**	✓
	0.56	3455	2.4/1.2	D71	192040.30	**3GVK9**	✓	D71D	192044.30	**2NB78**	✓	D71C	192047.30	**3GVP9**	✓
¾	0.56	1715	2.4/1.2	D80	192041.30	**3GVL1**	✓	D80D	192045.30	**3GVN6**	✓	D80C	192048.30	**3GVR1**	✓
	0.56	1125	2.8/1.4	D80	192042.30	**3GVL2**	✓	D80D	192046.30	**3GVN7**	✓	D80C	192049.30	**3GVR2**	✓
1.12	1.10	3475	4.2/2.1	D80	192060.30	**3GVL5**	✓	D80D	192064.30	**2NB84**	✓	D80C	192067.30	**3GVR3**	✓
	0.75	3475	3.0/1.5	D80	192050.30	**3GVL3**	✓	D80D	192054.30	**3GVN8**	✓	D80C	192057.30	**2NE24**	✓
1	0.75	1715	3.2/1.6	D80	192051.30	**2NB54**	✓	D80D	192055.30	**2NB80**	✓	D80C	192058.30	**2NE26**	✓
	0.75	1150	3.4/1.7	D90S	192200.30	**5PGH2**	✓	D90SD	192201.30	**5PGH3**	✓	—	—	—	
1½	1.12	1725	4.0/2.0	D90S	192202.30	**5PGH4**	✓	D90SD	192203.30	**5PGH5**	✓	D90SC	192204.30	**5PGH6**	✓
2	1.49	3455	5.0/2.5	D90S	192208.30	**11N103**	✓	D90SD	192210.30	**11N104**	✓	D90SC	192213.30	**11N105**	✓
	1.49	1725	5.4/2.7	D90L	192205.30	**5PGH7**	✓	D90LD	192206.30	**5PGH8**	✓	D90LC	192207.30	**5PGH9**	✓
3	2.24	3425	7.0/3.5	D90L	192209.30	**11N106**	✓	D90LD	192211.30	**11N107**	✓	D90LC	192214.30	**11N108**	✓
Cast-Iron Frame															
3	2.24	1770	8.0/4.0	DF100L	193301.60	**5PGJ0**	✓	DF100LD	193334.60	**5PGJ1**	✓	DF100LC	193359.60	**5PGJ2**	✓
4	3	3520	9.2/4.6	DF100L	193303.60	**5PGJ3**	✓	—	—	—		—	—	—	
	3	1760	10.0/5.0	—	—	—		DF100LD	193337.60	**5PGJ4**	✓	—	—	—	
5½	4.1	3510	12.6/6.3	DF112M	193306.60	**5PGJ5**	✓	DF112MD	193339.60	**5PGJ7**	✓	—	—	—	
	4.1	1755	14.0/7.0	DF112M	193307.60	**5PGJ6**	✓	DF112MD	193340.60	**5PGJ8**	✓	—	—	—	
7½	5.6	1770	18.4/9.2	DF132S	193310.60	**5PGJ9**	✓	—	—	—		—	—	—	
10	7.5	3535	24.0/12.0	DF132S	193312.60	**5PGK0**	✓	—	—	—		—	—	—	
	7.5	1765	24.0/12.0	DF132M	193313.60	**5PGK1**	✓	DF132MD	193346.60	**5PGK2**	✓	—	—	—	
15	11.2	1765	36.0/18.0	DF160M	193316.60	**5PGK3**	✓	DF160MD	193349.60	**5PGK4**	✓	—	—	—	

Converts B3 Rigid Mount Motor to B5 Flange Mount

NEMA/IEC Frame	Mfr. Model	Item No.
B5/B14 Flange Kits		
D63	175850.00	**3GVN9**
D71	175852.00	**3GVP1**
D80	175854.00	**3GVP2**
D90	175856.00	**3GVP3**

Converts B3 Rigid Mount Motor to B14 Flange Mount

NEMA/IEC Frame	Mfr. Model	Item No.
D63	175851.00	**3GVR8**
D71	175853.00	**3GVR9**
D80	175855.00	**3GVT1**
D90	175857.00	**3GVT2**

Converts From	Converts To	Mfr. Model	Item No.
B14 Reduced Diameter Flange Kits			
D63 Frame Flange	D56 Frame Flange	175900.00	**3GVL8**
D71 Frame Flange	D63 Frame Flange	175901.00	**3GVL9**
D80 Frame Flange	D71 Frame Flange	175902.00	**3GVN1**
D90 Frame Flange	D80 Frame Flange	175903.00	**3GVN2**

For assistance with motor selection, see pages 3 to 6.

WEG NEMA Premium

3-Phase NEMA Premium® Energy-Efficient Cooling Tower Motors

- Enclosure: totally enclosed fan-cooled
- Service factor: 1.25
- Mounting: rigid base
- Insulation: Class F, with B temperature rise for longer life
- Max. ambient temp.: 40°C
- Thermal protection: none
- Bearings: ball
- Rotation: CW/CCW
- Inverter rated, 1000:1 variable torque
- Frame material: cast-iron
- Warranty: 3 yr.

Durable synthetic enamel alkyd resin paint resists corrosion. V-ring slingers and umbrella seal on both endshields protect bearings from moisture and contaminants. Multiple endbell drains provide for shaft-up, -down, or -horizontal mounting. Motors include threaded conduit box with automatic drain and rubber lead separators at the motor frame. Stainless steel laser-etched nameplate maintains information over long life. Motors are suitable for operation in 100% humidity and corrosive environments. For use in cooling tower applications where the motor is mounted in the airstream. Meet IP55 enclosure rating. UL Recognized and CSA Certified.

Note: Motors are suitable for use at 50 Hz at rated HP and 1.25 service factor.

F1 Conduit Box Position

F2 Conduit Box Position

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Nom. Efficiency	Overall Length	Mfr. Model	Item No.	
F1 Conduit Box Position									
1	1760	143T	208-230/460	3.07-2.82/1.41	85.5	13⅜"	00118ET3ECT143TF1-W2	**19C670**	✓
1½	1755	145T	200	4.65	86.5	13⅜"	00158ET3PCT145TF1-W2	**19C671**	✓
	1755	145T	208-230/460	4.36-4.04/2.02	86.5	13⅜"	00158ET3ECT145TF1-W2	**19C672**	✓
2	1750	145T	200	6.0	86.5	13⅜"	00218ET3PCT145TF1-W2	**19C673**	✓
	1750	145T	208-230/460	5.77-5.22/2.61	86.5	13⅜"	00218ET3ECT145TF1-W2	**19C674**	✓
3	1760	182T	200	8.92	89.5	14⅞"	00318ET3PCT182TF1-W2	**19C675**	✓
	1760	182T	208-230/460	8.58-7.76/3.88	89.5	14⅞"	00318ET3ECT182TF1-W2	**19C676**	✓
5	1755	184T	200	14.8	89.5	15⅞"	00518ET3PCT184TF1-W2	**19C677**	✓
	1755	184T	208-230/460	14.3/12.9-6.45	89.5	15⅞"	00518ET3ECT184TF1-W2	**19C678**	✓
7½	1765	213T	200	20.7	91.7	18"	00718ET3PCT213TF1-W2	**19C679**	✓
	1765	213T	208-230/460	19.0-18.0/9.0	91.7	18"	00718ET3ECT213TF1-W2	**19C680**	✓
10	1760	215T	200	28.5	91.7	19½"	01018ET3PCT215TF1-W2	**19C681**	✓
	1760	215T	208-230/460	27.4-24.8/12.4	91.7	19½"	01018ET3ECT215TF1-W2	**19C682**	✓
	1175	256T	208-230/460	28.5-25.8/12.9	91.0	25"	01012ET3ECT256TF1-W2	**19C683**	✓
15	1765	254T	200	41.4	92.4	23¼"	01518ET3PCT254TF1-W2	**19C684**	✓
	1765	254T	208-230/460	39.8-36.0/18.0	92.4	23¼"	01518ET3ECT254TF1-W2	**19C685**	✓
20	1765	256T	200	55.4	93.0	25"	02018ET3PCT256TF1-W2	**19C686**	✓
	1765	256T	208-230/460	53.3-48.2/24.1	93.0	26 7/16"	02018ET3ECT256TF1-W2	**19C687**	✓
25	1765	284T	200	67.9	93.6	26 7/16"	02518ET3PCT284TF1-W2	**19C688**	✓
	1765	284T	208-230/460	65.2-59.0/29.5	93.6	26 7/16"	02518ET3ECT284TF1-W2	**19C689**	✓
30	1765	286T	200	80.7	93.6	27⅞"	03018ET3PCT286TF1-W2	**19C690**	✓
	1765	286T	208-230/460	77.6-70.2/35.1	93.6	27⅞"	03018ET3ECT286TF1-W2	**19C691**	✓
40	1775	324T	200	111	94.1	29⅝"	04018ET3PCT324TF1-W2	**19C692**	✓
	1775	324T	208-230/460	107-96.4/48.2	94.1	29⅝"	04018ET3ECT324TF1-W2	**19C693**	✓
F2 Conduit Box Position									
1	1765	143T	208-230/460	3.07-2.82/1.45	85.5	13⅜"	00118ET3ECT143T-W22	**6EGP2**	✓
	1150	145T	208-230/460	3.8-3.5/1.75	82.5	13⅜"	00112ET3ECT145T-W22	**6EGP3**	✓
1½	1760	145T	208-230/460	4.4-4.0/2.0	86.5	13⅜"	00158ET3ECT145T-W22	**6EGP4**	✓
	1165	182T	208-230/460	5.3-4.8/2.4	87.5	14⅞"	00152ET3ECT182T-W22	**6EGP5**	✓
2	1755	145T	208-230/460	5.72-5.22/2.61	86.5	13⅜"	00218ET3ECT145T-W22	**6EGP6**	✓
	1165	184T	208-230/460	7.1-6.5/3.25	88.5	15⅞"	00212ET3ECT184T-W22	**6EGP7**	✓
3	1760	182T	208-230/460	8.6-7.8/3.9	89.5	14⅞"	00318ET3ECT182T-W22	**6EGP8**	✓
	1170	213T	208-230/460	9.8-8.8/4.4	89.5	18 1/16"	00312ET3ECT213T-W22	**6EGP9**	✓
5	1755	184T	200	14.8	89.5	15⅞"	00518ET3PCT184T-W22	**6EGR0**	✓
	1755	184T	208-230/460	14.2-12.8/6.4	89.5	15⅞"	00518ET3ECT184T-W22	**6EGR1**	✓
	1160	215T	200	15.7	89.5	19 9/16"	00512ET3PCT215T-W22	**6EGR2**	✓
	1160	215T	208-230/460	15.1-13.7/6.83	89.5	19 9/16"	00512ET3ECT215T-W22	**6EGR3**	✓
7½	1770	213T	200	20.7	91.7	18 1/16"	00718ET3PCT213T-W22	**6EGR4**	✓
	1770	213T	208-230/460	19.9-18/9	91.7	18 1/16"	00718ET3ECT213T-W22	**6EGR5**	✓
	1170	254T	200	22.4	91	23¼"	00712ET3PCT254T-W22	**6EGR6**	✓
	1170	254T	208-230/460	21-19/9.5	91	23¼"	00712ET3ECT254T-W22	**6EGR7**	✓
10	1765	215T	200	28.5	91.7	19 9/16"	01018ET3PCT215T-W22	**6EGR8**	✓
	1765	215T	208-230/460	27.9-25.2/12.6	91.7	19 9/16"	01018ET3ECT215T-W22	**6EGR9**	✓
	1170	256T	200	29.7	91	25"	01012ET3PCT256T-W22	**6EGT0**	✓
	1170	256T	208-230/460	29.3-26.5/12.9	91	25"	01012ET3ECT256T-W22	**6EGT1**	✓
15	1765	254T	200	41.4	92.4	23¼"	01518ET3PCT254T-W22	**6EGT2**	✓
	1765	254T	208-230/460	39.8-36.0/18.0	92.4	23¼"	01518ET3ECT254T-W22	**6EGT3**	✓
	1180	284T	200	41.2	91.7	26 7/16"	01512ET3PCT284T-W22	**6EGT4**	✓
	1180	284T	208-230/460	39.6-35.8/17.9	91.7	26 7/16"	01512ET3ECT284T-W22	**6EGT5**	✓
20	1765	256T	200	55.4	93	25"	02018ET3PCT256T-W22	**6EGT6**	✓
	1765	256T	208-230/460	53.3-48.2/24.1	93	25"	02018ET3ECT256T-W22	**6EGT7**	✓
	1180	286T	200	55.7	91.7	28"	02012ET3PCT286T-W22	**6EGT8**	✓
	1180	286T	208-230/460	53.5-48.4/24.2	91.7	28"	02012ET3ECT286T-W22	**6EGT9**	✓
25	1770	284T	200	67.9	93.6	26 7/16"	02518ET3PCT284T-W22	**6EGU0**	✓
	1765	284T	208-230/460	65.2-59.0/29.5	93.6	26 7/16"	02518ET3ECT284T-W22	**6EGU1**	✓
	1175	324T	200	69.9	93	29⅝"	02512ET3PCT324T-W22	**6EGU2**	✓
	1175	324T	208-230/460	67.2-60.8/30.4	93	29⅝"	02512ET3ECT324T-W22	**6EGU3**	✓
30	1765	286T	200	80.7	93.6	28"	03018ET3PCT286T-W22	**6EGU4**	✓
	1765	286T	208-230/460	77.6-70.2/35.1	93.6	28"	03018ET3ECT286T-W22	**6EGU5**	✓
	1175	326T	200	82.2	93	31⅛"	03012ET3PCT326T-W22	**6EGU6**	✓
	1175	326T	208-230/460	79.2-71.6/35.8	93	31⅛"	03012ET3ECT326T-W22	**6EGU7**	✓
40	1775	324T	208-230/460	107.0-96.5/48.3	94.1	29⅝"	04018ET3ECT324T-W22	**6EGU8**	✓
	1185	364T	208-230/460	104.0-94.2/47.1	94.1	33⅛"	04012ET3ECT364T-W22	**6EGU9**	✓
50	1780	326T	208-230/460	131-118/59.2	94.5	31⅛"	05018ET3ECT326T-W22	**6EGV0**	✓
	1180	365T	208-230/460	127-115/57.4	94.1	34¼"	05012ET3ECT365T-W22	**6EGV1**	✓
60	1780	364T	208-230/460	151.0-137.0/68.4	95	34¼"	06018ET3ECT364T-W22	**6EGV2**	✓
	1180	404T	208-230/460	156.0-141.0/70.4	94.5	39¾"	06012ET3ECT404T-W22	**6EGV3**	✓
75	1775	365T	208-230/460	186-168/84.1	95.4	34¼"	07518ET3ECT365T-W22	**6EGV4**	✓
	1180	405T	208-230/460	188-170/84.9	94.5	39¾"	07512ET3ECT405T-W22	**6EGV5**	✓
100	1775	405T	208-230/460	245-222/111	95.4	39¾"	10018ET3ECT405T-W22	**6EGV6**	✓
	1190	444T	208-230/460	267.0-242.0/121.0	95	45¼"	10012ET3ECT444T-W22	**6EGV7**	✓

IMPORTANT MOTOR INFORMATION: Refer to pages 3 and 5-7 for motor selection guidelines, standardized motor dimensions, NEMA and IEC guidelines, motor terminology, and energy legislation data.

No. 6AGW5

WEG NEMA Premium™

3-Phase IEEE 841 NEMA Premium® Energy-Efficient Motors

- Frame material: cast-iron
- Enclosure: IP55
- Service factor: 1.25
- Insulation: Class F with B temp. rise for longer life
- 460V
- Bearings: regreaseable ball and roller
- Thermal protection: none
- Inverter rated NEMA MG 1 part 30: 1000:1 variable and 20:1 constant torque
- Max. ambient temp.: 40°C
- Rotation: CW/CCW
- Warranty: 5 yr.
- Roller bearing models for belt drive applications only

These totally enclosed fan-cooled motors are for dusty, dirty, nonhazardous applications, and are especially suited for pulp, paper, and steel mills, petrochemical, and applications requiring severe-duty long-life motors. Internal and external corrosion-resistant finish with stainless steel nameplate. Feature Inpro-seal on drive end, and 50,000-hr. extended bearing life. Nonsparking fan. Meet or exceed IEEE 2001 specification and all NEMA Premium/CEE requirements for energy efficiency. UL Recognized, CSA and CE Certified.

HP	Nameplate RPM	Frame	Full Load Amps	Nom. Efficiency	Overall Length	Mfr. Model	Item No.	
1	1800	143TC	1.4	85.5%	12⅜"	00118ST3QIE143TC-W22	12N928	✓
	1760	143T	1.3	85.5%	12⅜"	00118ST3QIE143T-W22	6AGU1	✓
	1200	145TC	1.7	82.5%	13⅜"	00112ST3QIE145TC-W22	12N929	✓
1½	3490	143T	1.9	84.0%	12⅜"	00156ST3QIE143T-W22	6AGU3	✓
	1800	145TC	2.0	86.5%	13⅜"	00158ST3QIE145TC-W22	12N930	✓
	1755	145T	1.9	86.5%	13⅜"	00158ST3QIE145T-W22	6AGU4	✓
	1200	182TC	2.3	87.5%	14⅞"	00152ST3QIE182TC-W22	12N931	✓
	1165	182T	2.3	87.5%	14⅞"	00152ST3QIE182T-W22	6AGU5	✓
2	1800	145TC	2.6	86.5%	13⅜"	00218ST3QIE145TC-W22	12N932	✓
	1750	145T	2.6	86.5%	13⅜"	00218ST3QIE145T-W22	6AGU7	✓
	1200	184TC	3.2	88.5%	15⅞"	00212ST3QIE184TC-W22	12N933	✓
3	3510	182T	3.6	86.5%	14⅞"	00336ST3QIE182T-W22	6AGU9	✓
	1800	182TC	3.8	89.5%	14⅞"	00318ST3QIE182TC-W22	12N934	✓
	1760	182T	3.8	89.5%	14⅞"	00318ST3QIE182T-W22	6AGV0	✓
	1200	213TC	4.4	89.5%	18"	00312ST3QIE213TC-W22	12N935	✓
5	3500	184T	5.9	88.5%	15⅞"	00536ST3QIE184T-W22	6AGV2	✓
	1800	184TC	6.4	89.5%	15⅞"	00518ST3QIE184TC-W22	12N936	✓
	1755	184T	6.4	89.5%	15⅞"	00518ST3QIE184T-W22	6AGV3	✓
	1200	215TC	6.8	89.5%	19½"	00512ST3QIE215TC-W22	12N937	✓
	1160	215T	6.8	89.5%	19⁹⁄₁₆"	00512ST3QIE215T-W22	6AGV4	✓
7½	3520	213T	8.7	89.5%	18¹⁄₁₆"	00736ST3QIE213T-W22	6AGV5	✓
	1800	213TC	9.0	91.7%	18"	00718ST3QIE213TC-W22	12N938	✓
	1765	213T	9.0	91.7%	18¹⁄₁₆"	00718ST3QIE213T-W22	6AGV6	✓
	1200	254TC	9.4	91.0%	23³⁄₁₆"	00712ST3QIE254TC-W22	12N939	✓
	1175	254T	9.4	91.0%	23¼"	00712ST3QIE254T-W22	6AGV7	✓
10	3515	215T	11.6	90.2%	19⁹⁄₁₆"	01036ST3QIE215T-W22	6AGV8	✓
	1800	215TC	12.4	91.7%	19½"	01018ST3QIE215TC-W22	12N940	✓
	1760	215T	12.4	91.7%	19⁹⁄₁₆"	01018ST3QIE215T-W22	6AGV9	✓
	1200	256TC	12.9	91.0%	25"	01012ST3QIE256TC-W22	12N941	✓
	1175	256T	12.9	91.0%	25"	01012ST3QIE256T-W22	6AGW0	✓
15	3530	254T	17.0	91.0%	23¼"	01536ST3QIE254T-W22	6AGW1	✓
	1800	254TC	18.0	92.4%	23³⁄₁₆"	01518ST3QIE254TC-W22	12N942	✓
	1765	254T	18.0	92.4%	23¼"	01518ST3QIE254T-W22	6AGW2	✓
	1200	284TC	17.9	91.7%	26⅜"	01512ST3QIE284TC-W22	12N943	✓
20	3520	256T	23.2	91.0%	25"	02036ST3QIE256T-W22	6AGW4	✓
	1800	256TC	24.1	93.0%	25"	02018ST3QIE256TC-W22	12N944	✓
	1765	256T	24.1	93.0%	25"	02018ST3QIE256T-W22	6AGW5	✓
	1200	286TC	24.2	91.7%	27⅞"	02012ST3QIE286TC-W22	12N945	✓
	1175	286T	24.2	91.7%	27¹⁵⁄₁₆"	02012ST3QIE286T-W22	6AGW6	✓
25	3535	284TS	28.5	91.7%	25¹⁄₁₆"	02536ST3QIE284TS-W22	6AGW7	✓
	1800	284TC	29.5	93.6%	26⅜"	02518ST3QIE284TC-W22	12N946	✓
	1765	284T	29.5	93.6%	26⁷⁄₁₆"	02518ST3QIE284T-W22	6AGW8	✓
	1200	324TC	30.4	93.0%	29⅝"	02512ST3QIE324TC-W22	12N947	✓
30	3535	286TS	33.8	91.7%	26⁹⁄₁₆"	03036ST3QIE286TS-W22	6AGX0	✓
	1800	286TC	35.1	93.6%	27⅞"	03018ST3QIE286TC-W22	12N948	✓
	1765	286T	35.1	93.6%	27¹⁵⁄₁₆"	03018ST3QIE286T-W22	6AGX1	✓
	1200	326TC	35.8	93.0%	31⅛"	03012ST3QIE326TC-W22	12N949	✓
	1180	326T	35.8	93.0%	31⅛"	03012ST3QIE326T-W22	6AGX2	✓
40	1775	324T	48.2	94.1%	29⅝"	04018ST3QIE324T-W22	6AGX4	✓
	1180	364/5T	46.5	94.1%	34¼"	04012ST3QIE364T-W22	6AGX5	✓
50	3550	326TS	56.1	93.0%	29⅝"	05036ST3QIE326TS-W22	6AGX6	✓
	1775	326T	59.2	94.5%	31⅛"	05018ST3QIE326T-W22	6AGX7	✓
	1180	364/5T	57.4	94.1%	34¼"	05012ST3QIE365T-W22	6AGX8	✓
60	3600	364/5TS	67.0	93.6%	32¼"	06036ST3QIE364TS-W22	15G077	✓
75	3600	364/5TS	81.9	93.6%	32¼"	07536ST3QIE365TS-W22	15G079	✓
100	3600	404/5TS	110.0	94.1%	36¾"	10036ST3QIE405TS-W22	15G082	✓
	1800	404/5T	111.0	95.4%	39¾"	10018ST3QIERB405T-W2	15G081	*✓

Roller bearings.

Hazardous Location Motor Temperature Codes

In addition to identifying the Class, Group, and Division of the hazardous location motor, you must also obtain the temperature code or maximum surface temperature for the motor. This code or temperature indicates the maximum surface temperature for all conditions including burnout, overload, single phasing, and locked rotor. The maximum surface temperature or T-Code must be identified on the nameplate.

TEMPERATURE IDENTIFICATION NUMBERS

"T" Number (T-Code On Nameplate)	Max. Temp. (For All Conditions)		"T" Number (T-Code On Nameplate)	Max. Temp. (For All Conditions)	
T1	450°C	842°F	T3A	180°C	356°F
T2	300°C	572°F	T3B	165°C	329°F
T2A	280°C	536°F	T3C	160°C	320°F
T2B	260°C	500°F	T4	135°C	275°F
T2C	230°C	446°F	T4A	120°C	248°F
T2D	215°C	419°F	T5	100°C	212°F
T3	200°C	392°F	T6	85°C	185°F

marathon™ Motors

Conduit Box

For use with NEMA 56 hazardous-location motors. Has a hole for self-tapping grounding screw. UL Listed and CSA Certified.

Item No.	
1TUL7	✓

National Electrical Code Explosive Atmosphere Classifications

Certain locations are hazardous because the atmosphere may contain gas, vapor, or dust in explosive quantities. The National Electrical Code (NEC) divides these locations into Classes and Groups according to the type of explosive agent which may be present. Listed are some of the agents in each classification. For a complete list, see NFPA (National Fire Protection Association) publication 497M.

Underwriters Laboratories tests motors and other devices for safety in explosive atmospheres, and publishes a list of those products that meet its standards for each Class and Group.

Use of UL Listed devices does not necessarily make an installation conform to the NEC or local codes.

Consult Chapter 5 of the NEC, local building codes, OSHA requirements, and insurance inspectors for detailed data as to proper procedures. This catalog does not contain any motors designed for Class I, Groups A or B atmospheres.

CLASS I

Group A: Acetylene

Group B: Butadiene, ethylene oxide, hydrogen, propylene oxide, manufactured gases containing more than 30% hydrogen by volume

Group C: Acetaldehyde, cyclopropane, diethyl ether, ethylene

Group D: Acetone, acrylonitrile, ammonia, benzene, butane, ethanol, ethylene dichloride, gasoline, hexane, isoprene, methane (natural gas), methanol, naphtha, propane, propylene, styrene, toluene, vinyl chloride, xylene

CLASS II

Group E: Aluminum, magnesium, and other metal dusts with similar characteristics

Group F: Carbon black, coke, or coal dust

Group G: Flour, starch, or grain dust

CLASS III

Easily ignitable fibers, such as rayon, cotton, sisal, hemp, cocoa fiber, oakum, excelsior, and other materials of similar nature

For information on the National Electrical Code explosive atmosphere classifications and temperature codes, see page 6.

1-Phase Hazardous Location Motors

marathon™ Motors

- Type: capacitor-start, except Nos. 1TUK9 and 1TUP2 are split-phase
- Temp. code: T3B
- Max. ambient temp.: 40°C
- Thermal protection: auto, except thermostat for Nos. 2NLE6 and 2NLE9
- Bearings: ball
- Rotation: CW/CCW

Motors have sturdy rolled-steel frames and meet the National Electrical Code for hazardous locations. Unmounted conduit box is included with all 56-frame motors. Use to power fans, blowers, pumps, or air compressors in areas that meet the National Electrical Code for hazardous locations. UL Listed and CSA Certified.


Rigid Base-Mount


Face-Mount

HP	Nameplate RPM	NEMA/IEC Frame	Voltage	Full Load Amps	Service Factor	Ins. Class	Length Less Shaft	Hazardous Loc. Class & Group	Mfr. Model	Item No.	
Face-Mount											
¼	1140	56CZ	115/208-230	6.8/3.1-3.4	1.00	B	11⅞"	1 C,D / 2 E,F,G	56C11G15504	**1TUL4**	‡✓
⅓	3450	56C	115/208-230	7.0/3.2-3.5	1.00	B	11⅜"	1 C,D / 2 E,F,G	56C34G15521	**1TUK4**	*✓
	1725	56C	115/208-230	6.6/3.1-3.3	1.00	B	11⅜"	1 C,D / 2 E,F,G	56C17G15526	**1TUN8**	✓
½	3450	56C	115/208-230	8.4/4.0-4.2	1.00	B	11⅜"	1 C,D / 2 E,F,G	56C34G15514	**1TUK5**	✓
	1725	56C	115/208-230	8.8/4.2-4.4	1.00	B	11⅞"	1 C,D / 2 E,F,G	56C17G15524	**1TUN9**	✓
	1140	56CZ	115/208-230	9.6/4.7-4.8	1.00	B	12⅞"	1 C,D / 2 E,F,G	56B11G15506	**1TUL5**	††✓
¾	3450	56C	115/208-230	10.6/5.3-5.3	1.00	B	11⅞"	1 C,D / 2 E,F,G	56C34G15516	**1TUK6**	✓
	1725	56C	115/208-230	11.0/5.4-5.5	1.00	B	12⅜"	1 C,D / 2 E,F,G	56C17G15530	**1TUP1**	✓
1	3450	56C	115/208-230	12.4/6.7-6.2	1.00	B	12⅜"	1 C,D / 2 E,F,G	56C34G15513	**1TUK7**	✓
	1725	56C	115/208-230	13.4/6.8-6.7	1.00	B	12⅜"	1 C,D / 2 E,F,G	56C17G15516	**1TUK8**	✓
1½	1725	56C	115/208-230	15.6/8.1-7.8	1.15	B	14⅜"	1 C,D / 2 F,G	56B17G15510	**2NLE6**	†✓
Face/Rigid Base-Mount											
⅓	1725	56C	115/208-230	6.6/3.1-3.3	1.00	B	11⅜"	1 C,D / 2 F,G	56C17G5324	**2NKY9**	✓
½	3450	56C	115/208-230	8.4/4.0-4.2	1.00	B	11⅜"	1 C,D / 2 F,G	56C34G15523	**2NLE7**	✓
	1725	56C	115/208-230	8.8/4.4-4.2	1.15	F	11⅞"	1 C,D / 2 F,G	56C17G5328	**2NKZ1**	✓
¾	3450	56C	115/208-230	10.6/5.3-5.3	1.00	B	11⅞"	1 C,D / 2 F,G	56C34G5314	**2NKZ2**	✓
	1725	56C	115/208-230	11.0/5.4-5.5	1.00	B	12⅜"	1 C,D / 2 F,G	56C17G5326	**2NKZ3**	✓
1	3450	56C	115/208-230	12.4/6.7-6.2	1.00	B	12⅜"	1 C,D / 2 F,G	56C34G15524	**2NLE8**	✓
	1725	56C	115/208-230	13.4/6.8-6.7	1.00	B	12⅜"	1 C,D / 2 F,G	56C17G5327	**2NKZ4**	✓
1½	1760	143TC	115/208-230	15.6/8.1-7.8	1.15	B	14⅜"	1 C,D / 2 F,G	143TBGR14033	**2NLE9**	†✓
Rigid Base-Mount											
⅛	1140	56	115	3.8	1.00	B	10½"	1 C,D / 2 E,F,G	56S11E15502	**1TUK9**	*✓
¼	1725	56	115	5.4	1.00	B	10"	1 C,D / 2 E,F,G	56S17E15501	**1TUP2**	*✓
	1725	56	115/208-230	4.8/2.3-2.4	1.00	B	10"	1 C,D / 2 E,F,G	56C17E15503	**1TUL8**	*✓
	1725	48	115/230	4.2/2.1	1.00	B	9⅛"	1 D / 2 F,G	5KC36PNB169X	**3K793**	*✓
	1140	56	115/208-230	6.8/3.1-3.4	1.00	B	12"	1 C,D / 2 E,F,G	56C11G15502	**1TUL1**	✓
⅓	3450	56	115/208-230	7.0/3.2-3.5	1.00	B	11½"	1 C,D / 2 E,F,G	56C34G15520	**1TUN4**	✓
	1725	56	115/208-230	6.6/3.1-3.3	1.00	B	11½"	1 C,D / 2 E,F,G	56C17G15521	**1TUL9**	✓
	1140	56	115/208-230	7.8/3.6-3.9	1.00	B	12"	1 C,D / 2 E,F,G	56C11G15503	**1TUL2**	✓
½	3450	56	115/208-230	8.4/4.0-4.2	1.00	B	11½"	1 C,D / 2 E,F,G	56C34G15515	**1TUN5**	✓
	1725	56	115/208-230	8.8/4.2-4.4	1.00	B	12"	1 C,D / 2 E,F,G	56C17G15523	**1TUN1**	✓
	1140	56	115/208-230	9.6/4.7-4.8	1.00	B	13"	1 C,D / 2 E,F,G	56B11G15505	**1TUL3**	†✓
¾	3450	56	115/208-230	10.6/5.3-5.3	1.00	B	12"	1 C,D / 2 E,F,G	56C34G15517	**1TUN6**	✓
	1725	56	115/208-230	11.0/5.4-5.5	1.00	B	12½"	1 C,D / 2 E,F,G	56C17G15525	**1TUN2**	✓
1	3450	56	115/208-230	12.4/6.7-6.2	1.00	B	12½"	1 C,D / 2 E,F,G	56C34G15518	**1TUN7**	✓
	1725	56H	115/208-230	13.4/6.8-6.7	1.00	B	12⅛"	1 C,D / 2 E,F,G	56C17G15527	**1TUN3**	✓
1½	1725	56H	208-230	8.1-7.8	1.00	B	14⅛"	1 C,D / 2 E,F,G	56B17G15506	**1TUL6**	†✓

** Totally enclosed nonventilated. † Capacitor-start, capacitor-run. ‡ Shaft is ⅝" x 2¼".*

3-Phase Hazardous Location Motors

marathon™ Motors NEMA Premium

- Temp. code: T3B
- Max. ambient temp.: 40°C
- Thermal protection: T Stat
- Bearings: ball, except Nos. 39P306 to 39P308 have ball and roller
- Rotation: CW/CCW

Motors meet or exceed all NEMA Premium/CEE requirements for energy efficiency, except where noted. Ideal for blowers, compressors, fans, and pumps that require an explosionproof rating. External surfaces have epoxy paint to help resist corrosion. Cast-iron frames, except Nos. 39P314, 39P312, and 39P313 are rolled steel. Totally Enclosed Nonventilated motors include an unmounted, explosionproof conduit box. All models are UL Listed and CSA Certified.


Face-Mount


Rigid-Mount

HP	Nameplate RPM	NEMA/IEC Frame	Voltage	Hz	Full Load Amps	Service Factor	Ins. Class	Nom. Efficiency	Hazardous Loc. Class & Group	Mfr. Model	Item No.	
Face-Mount, Totally Enclosed Nonventilated												
¼	1725	56C	208-230/460	60	1.1-1.1/0.55	1.00	B	75%	1 C,D / 2 F,G	56T17E5310	**39P314**	†✓
Rigid Base-Mount, Totally Enclosed Nonventilated												
¼	1735	48	230/460	60	1.2/0.60	1.00	B	66%	1 D / 2 F,G	5K32GNB249	**39P312**	†✓
	1725	56	208-230/460	60	1.1-1.1/0.55	1.00	B	75%	1 C,D / 2 F,G	56T17E5308	**39P313**	†✓
Rigid Base-Mount, Totally Enclosed Fan-Cooled												
1	1735	143T	208-230/460	60	3.0-3.0/1.5	1.15	F	85.5%	1 C,D / 2 F,G	143TTGN6532	**39P279**	✓
	1735	143TC	208-230/460	60/50	3.0-3.0/1.5	1.15	F	85.5%	1 D / 2 F,G	143TTGN6551	**39P309**	✓
	1155	145T	208-230/460	60/50	3.6-3.6/1.8, 3.5/1.75	1.15	F	82.5%	1 D / 2 F,G	145TTGN6576	**39P280**	✓
1½	3515	143T	208-230/460	60/50	4.2-4.0/2.0	1.15	F	85.5%	1 D / 2 F,G	143TTGN6501	**39P281**	✓
	1755	145T	208-230/460	60/50	4.7-4.6/2.3	1.15	F	86.5%	1 C,D / 2 F,G	145TTGN16532	**39P282**	✓
	1755	145TC	208-230/460	60/50	4.7-4.6/2.3	1.15	F	86.5%	1 D / 2 F,G	145TTGN6536	**39P310**	✓
2	3500	145T	208-230/460	60/50	5.6-5.2/2.6	1.15	F	86.5%	1 D / 2 F,G	145TTGN6501	**39P283**	✓
	1760	145T	208-230/460	60	6.2-6.0/3.0	1.15	F	86.5%	1 C,D / 2 F,G	145TTGN6550	**39P284**	✓
	1755	145TC	208-230/460	60/50	6.2-6.0/3.0	1.15	F	86.5%	1 D / 2 F,G	145TTGN6549	**39P311**	✓
60	3555	364TS	230/460	60	134.0/67.0	1.15	F	94.5%	1 C,D / 2 F,G	364TSTGS6506	**39P286**	✓
	1780	364T	230/460	60	138.0/69.0	1.15	F	95%	1 C,D / 2 F,G	364TTGS16536	**39P287**	✓
	1185	404T	230/460	60	144.0/72.0	1.15	F	94.5%	1 C,D / 2 F,G	404TTGS6588	**39P288**	✓
75	3555	365TS	230/460	60/50	169.0/84.5	1.15	F	94.1%	1 C,D / 2 F,G	365TSTGS16503	**39P289**	✓
	1782	365T	230/460	60/50	174.0/87.0	1.15	F	95.4%	1 C,D / 2 F,G	365TTGS16540	**39P290**	✓
	1185	405T	230/460	60	180.0/90.0	1.15	F	94.5%	1 C,D / 2 F,G	405TTGS6589	**39P291**	✓
100	3565	405TS	230/460	60	216.0/108.0	1.15	F	94.5%	1 C,D / 2 F,G	405TSTGS6503	**39P292**	✓
	1780	405T	230/460	60/50	226.0/113.0	1.15	F	95.4%	1 C,D / 2 F,G	405TTGS6548	**39P293**	✓
	1188	444T	230/460	60/50	248.0/124.0	1.15	F	95%	1 C,D / 2 F,G	444TTGN16580	**39P294**	✓
125	3575	444TS	460	60/50	139.0	1.15	F	95.4%	1 C,D / 2 F,G	444TSTGN16502	**39P295**	✓
	1785	444T	460	60/50	143.0	1.15	F	95.8%	1 C,D / 2 F,G	444TTGN16532	**39P296**	✓
	1185	445T	460	60	155.0	1.15	F	95%	1 C,D / 2 F,G	445TTGN6597	**39P297**	✓
150	3575	445TS	460	60	168.0	1.15	F	95.8%	1 C,D / 2 F,G	445TSTGN16505	**39P298**	✓
	1785	445T	460	60/50	172.0	1.15	F	95.8%	1 C,D / 2 F,G	445TTGN6542	**39P299**	✓
	1190	445T	460	60/50	181.0	1.15	F	95.8%	1 C,D / 2 F,G	445TTGN16588	**39P301**	✓
200	3575	445TS	460	60/50	224.0	1.15	F	95.4%	1 C,D / 2 F,G	445TSTGN16506	**39P302**	✓
	1785	445T	460	60/50	224.0	1.15	F	96.2%	1 C,D / 2 F,G	445TTGN6538	**39P303**	✓
	1190	447/449T	460	60/50	240.0	1.15	F	95.8%	1 C,D / 2 F,G	449TTGS16585	**39P304**	✓
250	3575	447/449TS	460	60/50	275.0	1.00	F	95.4%	1 C,D / 2 F,G	449TSTGS14003	**39P305**	*✓
	1785	447/449T	460	60	285.0	1.15	F	96.5%	1 C,D / 2 F,G	449TTGS16537	**39P306**	✓
300	1785	447/449T	460	60/50	338.0	1.00	F	95.4%	1 C,D / 2 F,G	449TTGS7037	**39P307**	*✓
350	1785	447/449T	460	60	400.0	1.00	F	95.4%	1 C,D / 2 F,G	449TTGS7036	**39P308**	*✓

** EPACT efficiency group. † Standard efficiency group.*

IMPORTANT MOTOR INFORMATION: Refer to pages 3 and 5-7 for motor selection guidelines, standardized motor dimensions, NEMA and IEC guidelines, motor terminology, and energy legislation data.