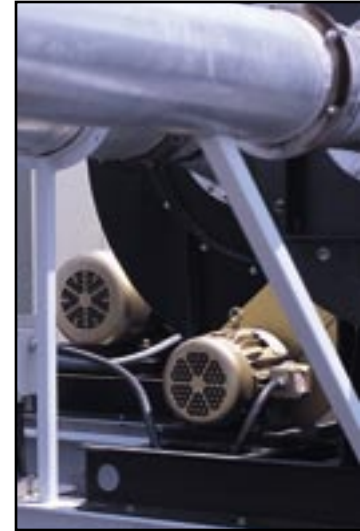


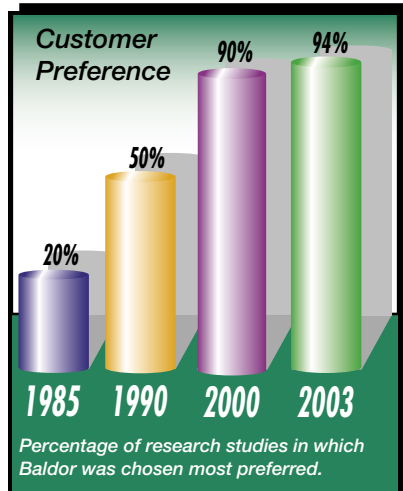
# Super-E® Premium Efficient Motors



**BALDOR**<sup>®</sup>  
MOTORS • DRIVES • GENERATORS

## Why Baldor?

For over 80 years, Baldor has strived to provide customers with the best value and reliability in industrial electric motors. That dedication shows in customer preference for Baldor motors. To be considered as the most preferred...



### Baldor offers the industry's broadest line of stock products.

Save valuable time with just one call to Baldor. We offer more than 7,000 stock motors, drives and gearboxes.

**Energy-efficiency leader.** We began lowering the energy consumption of our motors in the 1920s, long before others were even talking about it. Today, our expansive line of Super-E® NEMA Premium® efficient motors ranges from 1 through 1500 hp. Baldor's Super-E line offers customers the highest overall efficiency levels in the industry.



**Baldor products are available at more locations than any other brand.** Our 35 district offices across North America offer immediate availability of Baldor products to thousands of distributors.

### Continuous innovation to improve reliability.

Baldor leads the motor industry in applying new technologies and materials to improve motor reliability. Baldor was the first to introduce ISR® (Inverter Spike Resistant®) magnet wire, which is up to 100 times more resistant to voltage spikes. Baldor was first to use Exxon's Polyrex® EM grease, which protects motor bearings better, providing improved lubrication life, greater shear stability, and superior resistance to washout, rust and corrosion.

### Industry's shortest lead times/Flexible manufacturing.

Baldor has the industry's shortest lead times on custom motors – just ten working days. Our unique FLEX FLOW



manufacturing process lets us produce any order in any quantity, quickly and efficiently.

**Industry's best information.** Only Baldor offers customers so many choices for product information with a wide variety of catalogs and product brochures, a CD-ROM electronic catalog, the Baldor Web site ([www.baldor.com](http://www.baldor.com)), or you may talk to a Baldor customer service person or "ask the engineer" at [www.BaldorProSpec.com](http://www.BaldorProSpec.com).

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## The Baldor Super-E®

In the mid-70s, a southeastern tire manufacturing plant asked Baldor to increase their plant's operating efficiencies. After analyzing the efficiencies of the plant's 75 hp motors, Baldor engineers determined that considerable energy savings could be gained from a motor design focused on "active materials." By adding more copper to the windings, upgrading the laminations to a premium-grade steel, designing precision air gaps between the rotor and stator, and reducing fan and other losses in the motor, Baldor was able to supply the plant with the premium efficient motors it needed. This was the birth of the Baldor Super-E.

### Over 600 Stock Motor Ratings

Today's line of Baldor Super-E motors offers customers some from the highest levels of efficiencies, in ratings of 1 to 1500 horsepower. Baldor has over 600 ratings available immediately from stock, with non-stock motors delivered in just 10 working days. All Super-E motors (except Explosion-Proof) are also "Inverter-Ready".

### The Right Premium Efficient Motor for your Application

Whether it's a premium efficient motor for harsh, outdoor conditions at a petro-chemical plant, or for continuous duty in a distribution center, Baldor offers customers a variety of choices.

Super-E Totally Enclosed Fan Cooled (TEFC) and Open Drip Proof (ODP) are reliable motors that have kept plants operating efficiently since their introduction in 1983. Explosion-Proof, Close Coupled Pump and Automotive Approved Super-E's deliver premium efficiency for special duty applications.

In applications requiring added protection from corrosion caused by severe environmental operating conditions, Baldor Super-E Severe Duty motors are available in TEFC ratings from 1 through 900 hp. Cast-iron construction, epoxy primer and finish paint inside and out, gaskets on all joints and many other features provide added protection where and when you need it most.

For the ultimate in protection from severe environments—where you need added insurance against downtime—Baldor offers IEEE 841 motors. Delivering reliable, rugged performance with the industry's highest energy efficiencies, these motors exceed IEEE 841 - 2001 standards for severe duty TEFC induction motors.



A Baldor Super-E motor and Inverter Control provide premium energy efficiency and improved process control to a municipal water treatment facility.

Inpro/Seal® bearing isolators at both the drive end and fan end. Baldor IEEE 841 motors are available immediately off the shelf, in 1 – 250 hp ratings, with special designs available in just 2 weeks.

### Leadership in Premium Efficiency

Called a "key breakthrough" by the Consortium for Energy Efficiency, the CEE in 1998 recognized Baldor's Super-E as the first premium efficient motor line to meet their stringent efficiency criteria, citing "For the first time, one manufacturer will carry all qualifying products."

As countries and regions across the world establish minimum efficiency levels for motors, more companies are turning to the Baldor Super-E. This includes plant and processing applications, as well as OEM products for shipment overseas. Super-E motors meet or exceed the efficiency levels defined by NEMA Premium®, EPAAct in the U.S., NRC in Canada, and CEMEP eff1 in Europe.

A wide selection of premium efficient motors, available from stock, manufactured and sold by a company committed to building better products for industries worldwide. No wonder, since the 1920s, Baldor is recognized as the leader in energy efficient industrial motors and drives.



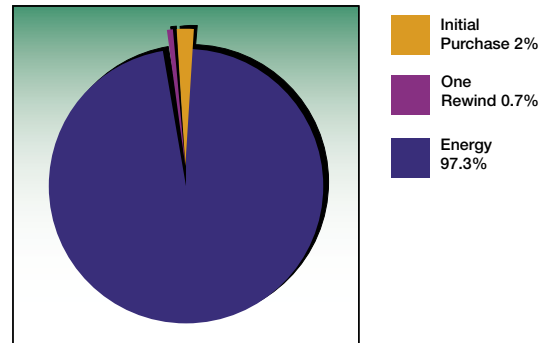
## Making Energy Efficiency Work For You

### Why is Energy Efficiency Important?

Electric motor-driven systems used in industrial processes consumed 679 billion kWh, or 63% of all electricity used in U.S. industrial sector, according to a U.S. Department of Energy report published in 1998. The report goes on to reveal that industrial motor energy could be reduced by up to 18 percent if companies were to apply motor and motor system efficiency upgrades, including the use of adjustable speed drives. The potential positive impacts on companies' bottom lines and the environment are significant.

### Purchase Price is Only a Small Piece of the Pie

The pie chart to the right shows the typical life cycle cost of a 100 hp motor operating in continuous duty over a 20-year life. As you can see, the original purchase price is almost insignificant compared to what it will cost to power the motor during its useful life.



### How Baldor Super-E® Efficiencies Compare to Industry Standards

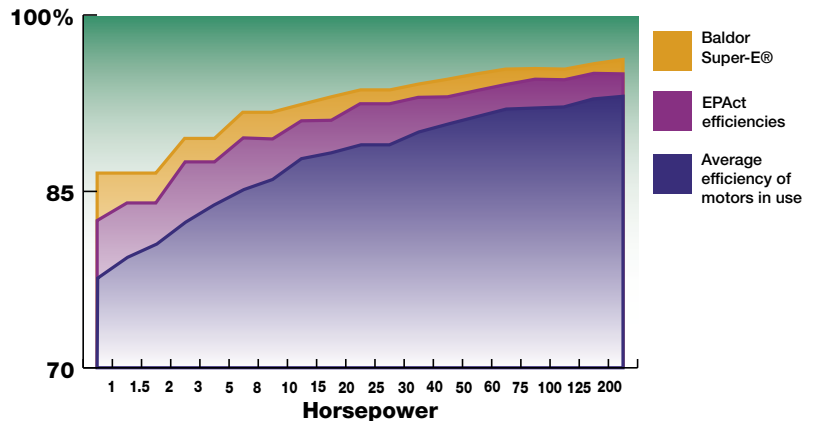
Baldor's line of Super-E motors offers customers the highest level of overall efficiencies available from any motor manufacturer.

### Baldor Energy Savings Tool™ (BE\$T™) Makes Calculating Payback Easy

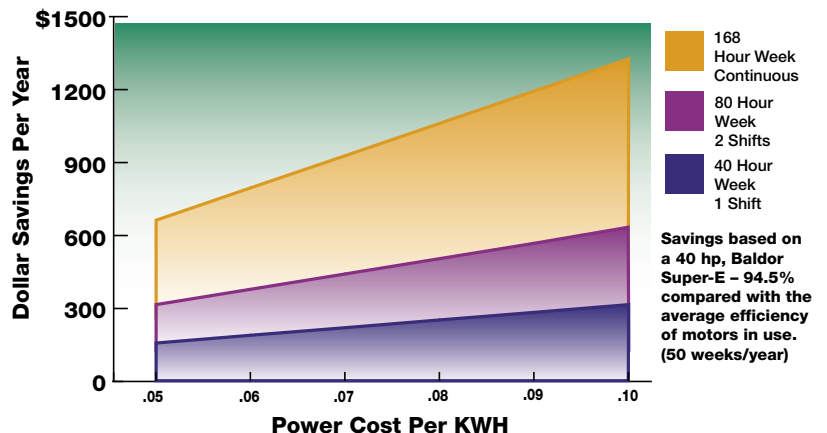
In order to make payback calculations easier for customers, Baldor developed the BE\$T program to help calculate energy cost and energy savings for motors, as well as payback time frames. A popular feature of the BE\$T program is that it allows users to make head-to-head comparisons of up to three motors, giving customers the information to make an informed decision through comparative analysis.

The Baldor Energy Savings Tool (BE\$T) is available as a download through Baldor's award-winning Web site ([www.baldor.com/support/index.asp](http://www.baldor.com/support/index.asp)), as well as a stand-alone CD-Rom or on Baldor's popular CD-ROM, both available from the Baldor Literature Hotline (1-800-828-4920).

### Electric Motor Efficiency Ratings



### What is Higher Efficiency Worth?





## Going Beyond the Industry Standard in Premium Efficient Motors

Baldor's Super-E motors are another example of our commitment to provide reliable performance, while exceeding customer expectations.

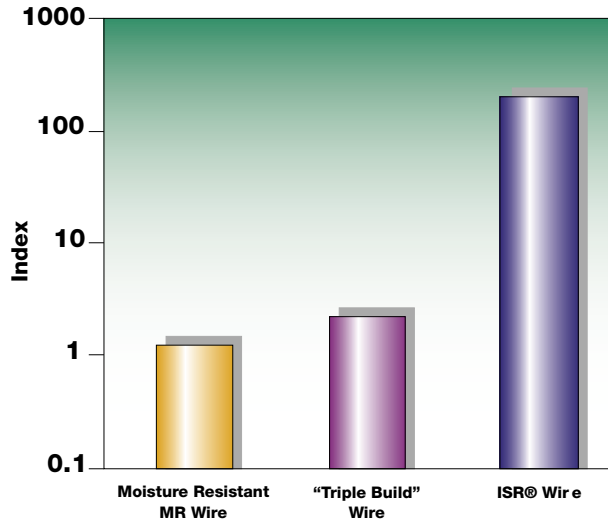


### Wound with ISR® (Inverter Spike Resistant®) Magnet Wire

Recognized as "Product of the Year" by Plant Engineering magazine in 1996, Baldor's ISR wire is a standard feature in Baldor Explosion-Proof motors, 575 volt and under.

Motors wound with ISR wire are up to 100 times more resistant to transient voltage spikes, high frequencies and short rise time pulse frequently produced by inverters and vector drives. The result is a better motor with longer life, reduced downtime and better overall value.

#### ISR® Wire is Superior in Pulse Endurance Test



**Technical Specifications:**  
NEMA MW-35

**Pulse Endurance Test Conditions:**  
Twisted pairs @ 20,000 Hz, 2 kV, 0.025 microsecond risetime, 50% duty cycle, 90°C

**Pulse Endurance Index =**  
Life of Product/Life of 18 H MW-35 (Reference)

**Thermal Properties, Chemical Resistance and Dielectric Strength:**  
ISR® Wire is equal to or better than MR wire.

**Thermal Rating:** 200°C

**Source:**  
Phelps Dodge Magnet Wire Company (Used with permission)

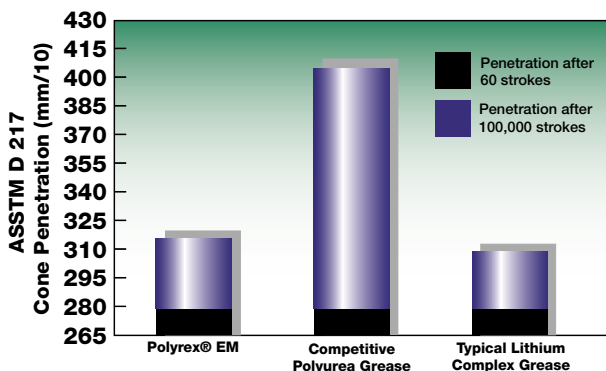
### Standard on All Baldor Motors: Exxon Polyrex® EM Polyurea Grease

It's a fact: Bearing failure is the #1 mechanical reason for motor failure. So the better the grease protecting those bearings, the better and longer the motor performs.

Today, that better grease is Exxon's new Polyrex® EM polyurea grease – now standard on all Baldor motors. It provides lubrication life of more than four times greater than other polyurea greases in tests up to 350°F. It exhibits greater durability when subjected to mechanical shearing forces. Furthermore, a specially formulated additive in the grease resists washout, rust and corrosion even when subjected to salt water conditions.



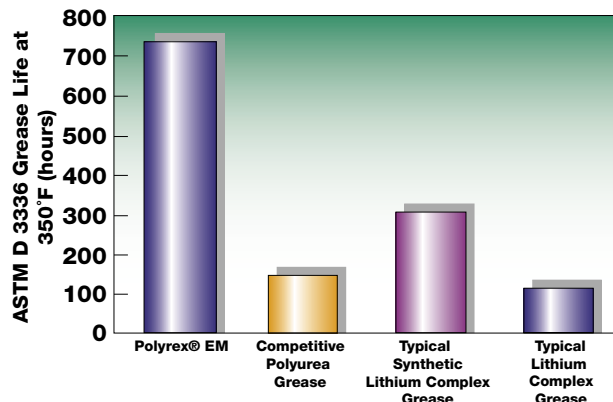
#### Excellent Shear Stability



As illustrated here, the proprietary polyurea thickener system in Polyrex EM exhibits excellent durability and stability when subjected to a mechanical shearing force. Mechanical shear stability is a measurement of the greases thickener system. Good mechanical shear stability is important in roller bearing applications where excessive grease softening may lead to grease leakage or purging from the bearing.

Source: Exxon Mobil Product Data Sheet DG-3C, 6/15/99.

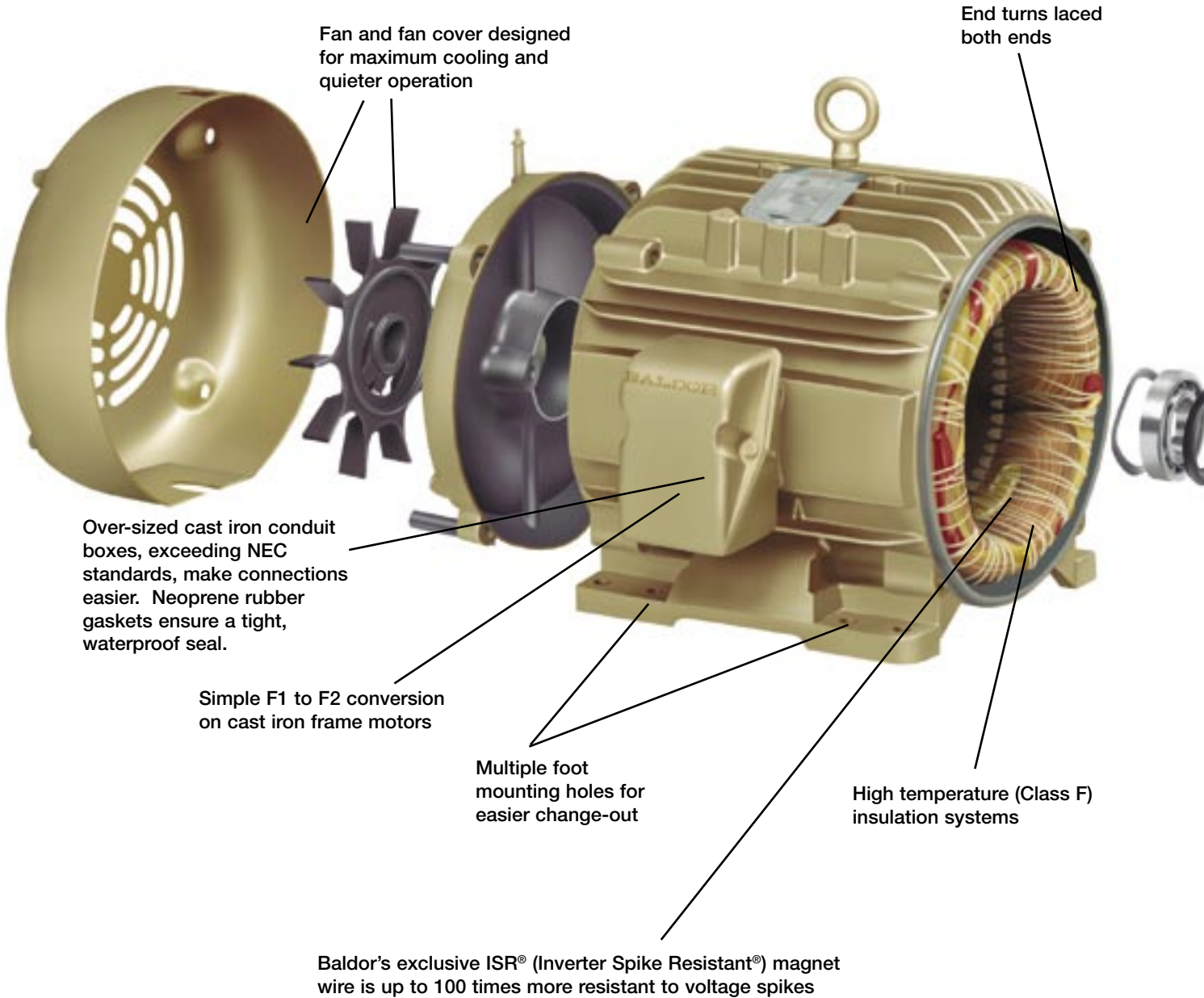
#### Outstanding High-Temperature Lubrication Life

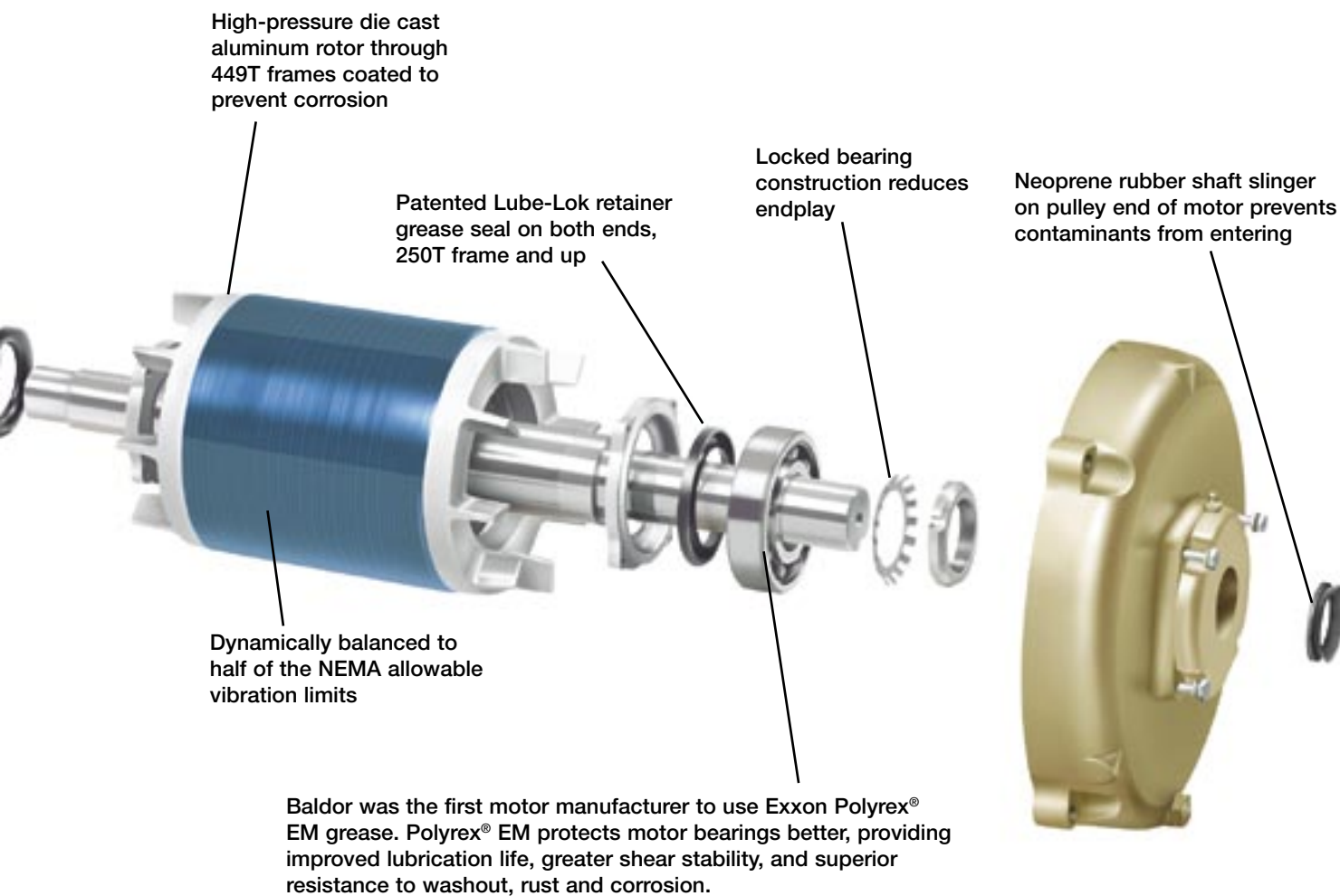


In the severe ASTM D 3336 High-Temperature Grease Life Test, Polyrex EM dramatically outperformed a competitive polyurea grease and conventional lithium-complex greases.

Source: Exxon Mobil Product Data Sheet DG-3C, 6/15/99.

## Baldor Super-E: Premium efficiency inside and out





## Super-E® Premium Efficiency Motor Construction

The family of Baldor Super-E TEFC (Totally-Enclosed Fan-Cooled) motors shares a number of electrical and mechanical features that add up to outstanding value. “EM” motors are general-purpose premium efficient motors. For more severe environmental applications, our “ECP” Severe Duty motors provide added weather and chemical protection. For extreme applications, where downtime is critical, Baldor “ECP-841” motors are ideal, these motors exceed IEEE 841-2001 specifications.

The chart below lists standard features (“S”) in Baldor’s TEFC Premium Efficient motors. Horsepower ranges indicate where certain features are standard in stock products. Additional features optional (“O”) on built-to-order motors, or through Baldor’s Mod-Express.

### TEFC Premium Efficiency Motor Family

Electrical Features	EM	ECP	ECP - 841
HP Range - Stock	1-75	1-500	1-250
HP Range - Custom	1-900	1-900	1-900
Class F insulation with Class B rise	S	S	S
1.15 Service factor	S	S	S
200°C Inverter Spike Resistant magnet wire	S	S	S
Phase insulation	S	S	S
Corona inception testing - meets NEMA Part 31.4.4.2	S	S	S
Varnish dip & bake with 100% solids	S	S	S
Double dip & bake with 100% solids		S	S
No silicone lead wire		S	S
Documented final motor tests - data shipped with motor			S
Mechanical Features	EM	ECP	ECP - 841
NEMA Frame sizes	143T - 5812	143T - 5812	143T - 5812
Steel Band Frame Die cast aluminum endplates, steel fan cover	S 143T - 215T		
Cast iron frame - cast iron endplates & fan cover	O 143T - 215T S 254T - Up	S	S
Die cast aluminum conduit box	S thru 360T		
Cast Iron conduit box	S 400T - up	S	S
Threaded inlet hole in conduit box		S	S
Neoprene conduit box lid gasket & lead separator gasket		S	S
Seal endplate to frame joints	S 250T - up	S	S
V-ring shaft seals - DE & ODE	S 250T - up	S	
Inpro/Seal® VBX bearing isolators - DE and ODE			S
Hardware - cad plated	S	S	S
Motor unfiltered vibration at rated voltage and frequency <0.15 in/sec peak velocity	S	S	
Motor unfiltered vibration at rated voltage and frequency <0.08 in/sec peak velocity			S
Test vibration on DE & ODE and document - ship with motor			S
Low bearing temperature specs (IEEE 841)			S
Foot flatness to < NEMA tolerances (0.005"/ft.)			S
Shaft runout < NEMA			S
Sound power level < 90 dBA			S
Grease inlet fitting - grease zerk	S		
Grease inlet with tube extension & screw-in plug		S	S
Grease outlet with screw-in plug	S		
Grease outlet with pressure relief	S 250T - up		
Grease outlet with tube extension & pressure relief		S	S
Non-metallic external cooling fan	S	S	S
Casting coated with water base primer	S		
Castings coated with 2-part epoxy primer		S	S
Finish paint with gold enamel	S		
Finish paint with 2-part dark gray epoxy		S	S
ASTM B117-90 96-hour salt spray tests		S	S
Embossed aluminum nameplate with NEMA data	S		
Embossed Stainless steel nameplate with NEMA data		S	S
Stainless steel nameplate with bearing and grease data		S	S
Limited Warranty	3 year	3 year	5 year

**Note:** Contact your Baldor District Office for certified data, dimensions and features of a specific motor.



## TEFC - Super-E® Capabilities

### Three Phase

**Typical Frame Size / Speed - RPM**

Hp	3600	1800	1200	900
1	56	56, 143T or 182	56 or 145T	182T
1 1/2	143T	56, 145T or 184	145T or 182T	184T
2	145T	56, 145T or 184	184T	213T
3	145T, 182T or 184	182T or 213T	213T	215T
5	184T	184T or 215T	215T	254T
7 1/2	184T or 213T	213T	254T	256T
10	215T	215T	256T	284T
15	254T	254T	284T	286T
20	256T	256T	286T	324T
25	284TS	284T	324T	326T
30	286TS	286T	326T	364T
40	324TS	324T	364T	365T
50	326TS	326T	365T	404T
60	365TS	364T	404T	405T
75	365TS	365T	405T	444T
100	405TS	405T	444T	445T
125	444TS	444T	445T	447T
150	445TS	445T	445T	449T or 5007L
200	447TS	447T, 449T	449T or 5007L	5007L or 5009L
250	449TS or 5007SY	449T or 5007L	449T or 5009L	5009L, 5011LY
300	449TS or 5007SY	449TY or 5009L	449TY or 5007L	5011LY or 5810
350	449TS or 5007SY	449TY or 5011LY	5009L or 5011LY	5011LY or 5810
400	449TS or 5007SY	5009L or 5011LY	5011LY or 5810	5810
450	5009SY	5009L or 5011LY	5011LY or 5810	5810
500	5009SY	5011LY or 5810	5011LY or 5810	5812
600	5009SY	5011LY or 5810	5810	
700		5810	5812	
800		5810		
900		5812		

**NOTE:** Shaded area denotes Stock motors. See Performance Data for voltage and frame availability.

Motors listed with catalog numbers in this brochure are available from stock. Baldor lead times on non-stock motors are 10 working days, providing a spec already exists.

Performance data is subject to change. Drawings shown are for reference only. Please contact Baldor for current performance data or a detailed drawing on the specific motor you require. Data and drawings may be available from our CD-ROM or [www.baldor.com](http://www.baldor.com)

### Premium Efficiency in Metric Frames

Baldor Super-E motors are available in IEC frames 63 through 450 with base, B5 flange or B14 C-face. Motors can be supplied for 50 or 60 Hz operation. Contact your Baldor District Office for more information.

## TEFC Super-E® Premium Efficient Motors

Baldor Super-E TEFC motors meet or exceed NEMA Premium® efficiency in your choice of steel-band or cast iron frame, ideal for tough industrial applications. The TEFC enclosure protects the motor from harsh environments because air does not pass freely through the motor. An external shaft-driven fan circulates air over the frame housing. ISR® wire, Class F insulation, and a 1.15 Service Factor and Exxon Polyrex®EM grease are some of these motors' standard features. TEFC motors are available in single or three phase, rigid base or C-Face (with or without base).



### Performance Data: TEFC - Totally Enclosed Fan Cooled, Rigid Base 230/460 Volts, Three Phase, 1 through 7.5 Hp

Hp	kW	RPM	Frame	Catalog No.	Amps 460 V <sup>①</sup>		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		Volt Code	"C" Dim.	Conn. Diag. No.
					Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE			
1	0.75	3450	56	EM3545	1.3	13.5	1.5	71.7	77.1	78.5	74	84	89	6205	6203	E1	12.25	CD0005
1	0.75	1750	56	EM3546	1.4	14	3.0	83.8	86.2	86.5	58	72	78	6205	6203	E	13.25	CD0005
1	0.75	1750	143T	EM3546T	1.4	14	3.0	83.8	86.2	86.5	58	72	78	6205	6203	E	13.31	CD0005
1	0.75	1750	143T	EM3581T	1.4	14	3.0	83.8	86.2	86.5	58	72	78	6205	6203	E	12.55	CD0005
1	0.75	1150	56	EM3556	1.7	9.9	4.5	80.1	82.9	82.5	42	54	63	6205	6203	E	14.12	CD0005
1	0.75	1150	145T	EM3582T	1.8	9.6	4.5	82.3	84.0	82.5	42	55	63	6205	6203	E1	12.55	CD0005
1 1/2	1.1	3450	56	EM3550	2.0	20.1	2.3	81.3	84.3	85.5	68	78	83	6205	6203	E	13.25	CD0005
1 1/2	1.1	3450	143T	EM3550T	2.0	20.1	2.3	81.3	84.3	85.5	68	78	83	6205	6203	E	13.31	CD0005
1 1/2	1.1	3450	143T	EM3583T	2.0	20.1	2.3	81.3	84.3	85.5	68	78	83	6205	6203	E	12.55	CD0005
1 1/2	1.1	1750	56	EM3554	2.0	16.8	4.5	86.4	87.6	86.5	61	73	80	6205	6203	F	13.25	CD0005
1 1/2	1.1	1740	145T	EM3554T	2.0	16.8	4.5	86.4	87.6	86.5	61	73	80	6205	6203	F	13.31	CD0005
1 1/2	1.1	1740	145T	EM3584T	2.0	16.8	4.5	86.4	87.6	86.5	61	73	80	6205	6203	E	12.55	CD0005
1 1/2	1.1	1170	182T	EM3667T	2.6	14.7	6.8	86.0	88.3	87.5	41	53	61	6206	6205	E	15.24	CD0005
2	1.5	3450	56	EM3555	2.5	30	3.0	83.8	86.2	86.5	70	80	85	6205	6203	E	14.12	CD0005
2	1.5	3450	145T	EM3555T	2.5	30	3.0	83.8	86.2	86.5	70	80	85	6205	6203	E	14.19	CD0005
2	1.5	3450	145T	EM3586T	2.5	30	3.0	83.8	86.2	86.5	70	80	85	6205	6203	E	12.55	CD0005
2	1.5	1725	56	EM3558	2.7	19.6	6.0	87.9	88.3	86.5	64	76	82	6205	6203	E	14.12	CD0005
2	1.5	1725	145T	EM3558T	2.7	19.6	6.0	87.9	88.3	86.5	64	76	82	6205	6203	E	14.19	CD0005
2	1.5	1725	145T	EM3587T	2.7	20.8	6.0	87.3	88.2	86.5	65	77	82	6205	6203	E	12.55	CD0005
2	1.5	1170	184T	EM3664T	3.5	20.9	9.0	86.7	88.6	88.5	41	52	61	6206	6205	E	15.24	CD0005
3	2.2	3500	182T	EM3610T	3.4	32	4.5	87.5	89.1	88.5	83	89	92	6206	6205	E	16.55	CD0005
3	2.2	3500	182T	EM3660T	3.4	32	4.5	87.5	89.1	88.5	83	89	92	6206	6205	E1	15.24	CD0005
3	2.2	1760	182T	EM3611T	4.1	32	9.0	89.1	90.0	89.5	58	71	77	6206	6205	E	16.55	CD0005
3	2.2	1760	182T	EM3661T	4.0	32	9.0	89.1	90.0	89.5	58	71	80	6206	6205	E1	15.24	CD0005
3	2.2	1160	213T	EM3704T	5.0	32	13.5	88.3	89.9	89.5	45	57	64	6307	6206	E1	19.02	CD0005
3	2.2	1160	213T	EM3764T	5.0	32	13.5	88.3	89.9	89.5	45	57	64	6307	6206	E1	18.45	CD0005
5	3.7	3500	184T	EM3613T	5.6	62.5	7.5	89.0	89.9	89.5	85	92	95	6206	6205	F	16.55	CD0005
5	3.7	3500	184T	EM3663T	5.7	62	7.5	88.2	89.8	89.5	77	86	90	6206	6205	F	15.24	CD0005
5	3.7	1750	184T	EM3615T	6.5	54	15	89.7	90.7	90.2	62	74	80	6206	6205	E1	18.05	CD0005
5	3.7	1750	184T	EM3665T	6.5	54	15	89.7	90.7	90.2	62	74	80	6206	6205	E1	15.24	CD0005
5	3.7	1160	215T	EM3708T	8.0	54	22.7	89.2	90.2	89.5	48	60	64	6307	6206	E1	19.02	CD0005
5	3.7	1160	215T	EM3768T	8.0	54	22.7	89.2	90.2	89.5	48	60	64	6307	6206	E1	18.45	CD0005
7 1/2	5.6	3525	213T	EM3709T	8.9	75	11.2	88.0	89.8	91.0	75	84	87	6307	6206	F	17.89	CD0005
7 1/2	5.6	3525	213T	EM3769T	8.6	75	11.2	88.0	89.8	91.0	75	84	90	6307	6206	E1	18.45	CD0005
7 1/2	5.6	1770	213T	EM3710T	10.2	72	22.2	90.5	91.8	91.7	56	68	76	6307	6206	E1	19.02	CD0005
7 1/2	5.6	1770	213T	EM3770T	9.8	67	22.2	90.7	91.9	91.7	56	68	76	6307	6206	E1	18.45	CD0005
7 1/2	5.6	1180	254T	EM2276T	10.7	70.1	33.3	90.6	91.8	91.7	53	65	71	6309	6208	E1	23.16	CD0005

**NOTE:** Volt Code: E=208-230/460, E1=230/460 usable at 208V, F=230/460 volts.

Shaded ratings are cast iron frames.

① Amps at 460V - double for 230V.

See pages 36-38 for Layout drawing. See page 52 for Connection Diagrams.

Efficiencies shown are nominal. Data subject to change without notice. Contact Baldor for certified data.

**TEFC Super-E® Premium Efficient Motors**

**Performance Data: TEFC - Totally Enclosed Fan Cooled, Rigid Base  
230/460 Volts, Three Phase, 10 through 75 Hp**

Hp	kW	RPM	Frame	Catalog No.	Amps 460 V <sup>①</sup>		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		Volt Code	"C" Dim.	Conn. Diag. No.
					Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE			
10	7.5	3500	215T	EM3711T	11.2	120	15	92.7	92.9	91.7	82	89	92	6307	6206	E1	19.02	CD0005
10	7.5	3500	215T	EM3771T	11.2	120	15	92.7	92.9	91.7	82	89	92	6307	6206	E1	18.45	CD0005
10	7.5	1760	215T	EM3714T	12.5	83.5	30	91.7	92.4	91.7	62	75	81	6307	6206	E1	19.77	CD0005
10	7.5	1760	215T	EM3774T	12.5	83.5	30	91.7	92.4	91.7	62	75	81	6307	6206	E1	18.45	CD0005
10	7.5	1180	256T	EM2332T	14.2	93	44.4	90.2	91.6	91.7	55	66	72	6309	6208	E1	23.16	CD0180
15	11.2	3525	254T	EM2394T	17.2	128	22.2	90.8	91.9	91.7	78	86	88	6309	6208	E1	23.16	CD0180
15	11.2	1765	254T	EM2333T	18.5	123	44.6	91.9	92.6	92.4	66	77	82	6309	6208	E1	23.16	CD0005
15	11.2	1180	286T	EM4100T	18.7	132	66.7	92.3	92.8	92.4	65	76	81	6311	6309	E1	27.76	CD0180
20	14.9	3540	256T	EM4106T	23	201	29.7	91.1	92.3	92.4	74	84	89	6309	6208	E1	23.16	CD0180
20	14.9	1765	256T	EM2334T	24	175	59	92.8	93.1	93.0	69	80	84	6309	6208	E1	23.16	CD0005
20	14.9	1175	286T	EM4102T	25	178	89	92.3	92.9	92.4	65	75	81	6311	6309	E1	27.76	CD0005
25	18.7	3530	284TS	EM4107T	28	236	37.2	93.0	93.5	93.0	82	89	91	6311	6309	E1	24.59	CD0180
25	18.7	1770	284T	EM4103T	30	188	74.2	92.4	93.6	93.6	72	81	84	6311	6309	E1	27.76	CD0005
25	18.7	1180	324T	EM4111T	32	248	111	91.9	92.9	93.0	61	73	79	6312	6309	F	30.39	CD0005
30	22.4	3520	286TS	EM4108T	33	281	44.7	93.2	93.5	93.0	83	89	92	6311	6208	E1	24.59	CD0180
30	22.4	1770	286T	EM4104T	36	246	89.0	93.8	94.4	94.1	66	75	83	6311	6309	E1	27.76	CD0005
30	22.4	1180	326T	EM4117T	38	285	134	92.4	93.2	93.0	61	72	79	6312	6311	E1	30.28	CD0005
40	30	3540	324TS	EM4109T	45	286	59.5	93.9	94.4	93.6	82	88	90	6312	6311	E1	28.78	CD0005
40	30	1775	324T	EM4110T	46	320	118	93.9	94.6	94.5	73	81	86	6312	6311	E1	30.28	CD0180
40	30	1185	364T	EM4308T	50.5	355	177	93.3	94.3	94.1	62	73	79	6313	6312	F	32.84	CD0005
50	37	3540	326TS	EM4114T	54	422	74	93.8	94.4	94.1	85	90	92	6312	6311	E1	28.90	CD0005
50	37	1775	326T	EM4115T	57	392	149	94.4	94.9	94.5	73	82	87	6312	6311	E1	30.28	CD0180
50	37	1185	365T	EM4312T	61	409	221	93.8	94.3	94.1	67	77	81	6313	6312	E1	32.84	CD0005
60	45	3565	364TS	EM4310T	67	580	88.5	92.6	94.0	94.1	78	86	90	6313	6312	E1	30.72	CD0180
60	45	1780	364T	EM4314T	69	447	177	94.7	95.2	95.0	74	82	86	6313	6312	E1	32.84	CD0180
60	45	1185	404T	EM4403T	72.5	455	265	94.0	94.7	94.5	69	78	83	6316	6313	F	38.06	CD0180
75	56	3565	365TS	EM4313T	83	740	111	93.4	94.6	94.5	81	87	90	6313	6312	F	30.72	CD0180
75	56	1780	365T	EM4316T	86.5	649	222	94.9	95.5	95.4	73	81	85	6313	6312	E1	32.84	CD0005
75	56	1185	405T	EM4404T	88	579	331	94.3	95.1	95.0	72	80	84	6316	6313	E1	38.06	CD0180

**F2 Mount**

10	7.5	1760	215T	EFM3714T	12.5	102	30	89.9	91.0	91.0	63	74	80	6307	6206	E	19.77	CD0005
15	11.2	1765	254T	EFM2333T	18.5	123	44.6	91.9	92.6	92.4	66	77	82	6309	6208	E1	23.16	CD0005
20	14.9	1765	256T	EFM2334T	24	175	59	92.8	93.1	93.0	69	80	84	6309	6208	E1	23.16	CD0005
25	18.7	1770	284T	EFM4103T	30	188	74.2	92.4	93.6	93.6	72	81	84	6311	6309	E1	27.76	CD0005
30	22.4	1770	286T	EFM4104T	36	246	89	93.8	94.4	94.1	66	75	83	6311	6309	E1	27.76	CD0005

**NOTE:** Volt Code: E=208-230/460, E1=230/460 usable at 208V, F=230/460 volts.

Shaded ratings are cast iron frames.

① Amps at 460V - double for 230V.

See pages 36-38 for Layout drawing. See pages 52-53 for Connection Diagrams.

Efficiencies shown are nominal. Data subject to change without notice. Contact Baldor for certified data.

## Performance Data: TEFC - Totally Enclosed Fan Cooled, Rigid Base, 200 Volts, Three Phase, 3 through 50 Hp

Hp	kW	RPM	Frame	Catalog No.	Amps		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		"C" Dim.	Conn. Diag. No.
					Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE		
3	2.2	3500	182T	EM3660T-8	7.8	73.6	4.5	87.5	89.1	88.5	83	89	92	6206	6205	15.24	CD0006
3	2.2	1760	182T	EM3661T-8	9.1	71.0	9.0	89.1	90.0	89.5	58	71	80	6206	6205	15.24	CD0006
5	3.7	3500	184T	EM3663T-8	13	141	7.5	88.2	89.8	89.5	77	86	90	6206	6205	15.24	CD0006
5	3.7	1750	184T	EM3665T-8	14.9	124	15	89.7	90.7	90.2	62	74	80	6206	6205	15.24	CD0006
7 1/2	5.6	3525	213T	EM3769T-8	19.8	173	11.2	90.0	91.4	91.0	79	87	90	6307	6206	18.45	CD0006
7 1/2	5.6	1770	213T	EM3770T-8	22.5	154	22.2	90.7	91.9	91.7	55	68	76	6307	6206	18.45	CD0006
10	7.5	3500	213T	EM3771T-8	26.5	276	15	92.7	92.9	91.7	82	89	92	6307	6206	18.45	CD0006
10	7.5	1760	215T	EM3774T-8	29	192	30	91.7	92.4	91.7	62	75	81	6307	6206	18.45	CD0006
15	11.2	3510	254T	EM2394T-8	39.6	294	22.2	90.8	91.9	91.7	78	86	88	6309	6208	23.16	CD0006
15	11.2	1765	254T	EM2333T-8	42.4	282	44.6	91.9	92.6	92.4	66	76	82	6309	6208	23.16	CD0006
20	14.9	3540	256T	EM4106T-8	52.9	462	29.7	91.1	92.3	92.4	74	84	89	6309	6208	23.16	CD0695
20	14.9	1765	256T	EM2334T-8	55.2	402	59	92.8	93.1	93.0	69	80	84	6309	6208	23.16	CD0695
25	18.7	3530	284TS	EM4107T-8	63	551	37.2	93.0	93.5	93.0	82	89	91	6311	6208	24.59	CD0695
25	18.7	1770	284T	EM4103T-8	68.4	431	74.2	92.4	93.6	93.6	72	81	84	6311	6309	27.76	CD0695
30	22.4	3520	286TS	EM4108T-8	75	620	44.7	93.2	93.5	93.0	83	89	92	6311	6208	24.59	CD0695
30	22.4	1770	286T	EM4104T-8	84	566	89	93.8	94.4	94.1	66	75	83	6311	6309	27.76	CD0695
40	30	1775	324T	EM4110T-8	106	734	118	93.9	94.6	94.5	71	81	86	6312	6311	30.28	CD0695
50	37	1775	326T	EM4115T-8	131	897	149	94.4	94.9	94.5	71	81	87	6312	6311	30.28	CD0695

**NOTE:** See page 37 for Layout drawing. See pages 52-54 for Connection Diagrams.

## Performance Data: TEFC - Totally Enclosed Fan Cooled, Rigid Base 575 Volts, Three Phase, 1 through 200 Hp

Hp	kW	RPM	Frame	Catalog No.	Amps		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		"C" Dim.	Conn. Diag. No.
					Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE		
1	0.75	1750	145T	EM3546T-5	1.1	11.2	3.0	83.8	86.2	86.5	58	72	78	6205	6203	13.31	CD0006
1 1/2	1.1	1740	145T	EM3554T-5	1.6	13.7	4.5	86.4	87.6	86.5	61	73	80	6205	6203	13.31	CD0006
2	1.5	1725	145T	EM3558T-5	2.2	15.7	6.0	88.1	88.1	86.5	66	77	82	6205	6203	14.19	CD0006
3	2.2	1760	182T	EM3611T-5	3.1	25.6	9.0	89.1	90.0	89.5	58	71	77	6206	6205	16.55	CD0006
3	2.2	1760	182T	EM3661T-5	3.2	26	9.0	89.1	90.0	89.5	58	71	80	6206	6205	15.24	CD0006
5	3.7	1750	184T	EM3615T-5	5.2	43	15	89.7	90.7	90.2	62	74	80	6206	6205	16.55	CD0006
5	3.7	1750	184T	EM3665T-5	5.2	44	15	89.7	90.7	90.2	62	74	80	6206	6205	15.24	CD0006
7 1/2	5.6	1770	213T	EM3710T-5	8.2	58	22.2	90.5	91.8	91.7	56	68	76	6307	6206	19.02	CD0006
7 1/2	5.6	1770	213T	EM3770T-5	8.0	53.6	22.2	90.7	91.9	91.7	56	68	76	6307	6206	18.45	CD0006
10	7.5	1760	215T	EM3714T-5	10.1	66.8	30	91.7	92.4	91.7	62	75	81	6307	6206	19.77	CD0006
10	7.5	1760	215T	EM3774T-5	10.1	66.8	30	91.7	92.4	91.7	62	75	81	6307	6206	18.45	CD0006
15	11.2	3525	254T	EM2394T-5	13.8	102	22.2	90.8	91.9	91.7	78	86	88	6309	6208	23.16	CD0006
20	14.9	3540	256T	EM4106T-5	18.4	160	29.7	91.1	92.3	92.4	74	84	89	6309	6208	23.16	CD0006
25	18.7	3530	284TS	EM4107T-5	22	183	37.2	93.0	93.5	93.0	82	89	91	6311	6208	24.59	CD0006
30	22.4	3520	286TS	EM4108T-5	26.2	216	44.7	93.2	93.5	93.0	83	89	92	6311	6208	24.59	CD0006
40	30	3540	324TS	EM4109T-5	36	229	59.5	93.9	94.4	93.6	82	88	90	6312	6311	28.78	CD0006
50	37	3540	326TS	EM4114T-5	43.6	338	74	93.8	94.4	94.1	85	90	91	6312	6311	28.90	CD0006

**NOTE:** See page 37 for Layout drawing. See page 52 for Connection Diagrams. Efficiencies shown are nominal. Data subject to change without notice. Contact Baldor for certified data.

Shaded ratings are cast iron frames.



**TEFC C-Face Super-E®  
Premium Efficient Motors**



**Performance Data: TEFC - Totally Enclosed Fan Cooled,  
C-Face, 230/460 Volts, Three Phase, 1 through 100 Hp**

Hp	kW	RPM	Frame	Catalog No.*	Amps 460 V <sup>①</sup>		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		Volt Code	"C" Dim.	Conn. Diag. No.
					Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE			
1	0.75	1750	143TC	CEM3581T	1.4	14	3.0	83.8	86.2	86.5	58	72	78	6205	6203	E	13.05	CD0005
1 1/2	1.1	3450	143TC	CEM3583T	2.0	20.1	2.3	81.3	84.3	85.5	68	78	83	6205	6203	E	13.05	CD0005
1 1/2	1.1	1750	145TC	CEM3584T	2.0	16.8	4.5	86.4	87.6	87.5	61	73	80	6205	6203	E	13.05	CD0005
2	1.5	3450	145TC	CEM3586T	2.5	30	3.0	83.8	86.2	86.5	70	80	85	6205	6203	E	13.05	CD0005
2	1.5	1725	145TC	CEM3587T	2.7	20.8	6.0	87.3	88.2	86.5	65	77	82	6205	6203	E	13.05	CD0005
3	2.2	3500	182TC	CEM3660T	3.4	32	4.5	87.5	89.1	88.5	83	89	92	6206	6205	E1	16.00	CD0005
3	2.2	1760	182TC	CEM3661T	4.0	32	9.0	89.1	90.0	89.5	58	71	80	6206	6205	E1	16.00	CD0005
5	3.7	3500	184TC	CEM3663T	5.7	62	7.5	88.2	89.8	89.5	77	86	90	6206	6205	F	16.00	CD0005
5	3.7	1750	184TC	CEM3665T	6.5	48	15	89.4	90.4	90.2	61	75	80	6206	6205	E	16.00	CD0005
7 1/2	5.6	3525	213TC	CEM3769T	8.6	75	11.2	90.0	91.4	91.0	79	87	90	6307	6206	E1	19.20	CD0005
7 1/2	5.6	1770	213TC	CEM3770T	9.8	67	22.2	90.7	91.9	91.7	56	68	76	6307	6206	E1	19.20	CD0005
10	7.5	3500	215TC	CEM3771T	11.2	120	15	92.7	92.9	91.7	82	89	92	6307	6206	E1	19.20	CD0005
10	7.5	1760	215TC	CEM3774T	12.5	83.5	30	91.7	92.4	91.7	62	75	81	6307	6206	E1	19.20	CD0005
15	11.2	3525	254TC	CEM2394T	17.2	128	22.2	90.8	91.8	91.7	78	86	88	6309	6208	E1	23.66	CD0180
15	11.2	1765	254TC	CEM2333T	18.5	123	44.6	91.9	92.6	92.4	66	77	82	6309	6208	E1	23.66	CD0005
20	14.9	3520	256TC	CEM4106T	22.5	166	29.8	92.5	93.0	92.4	79	86	90	6309	6208	E1	23.66	CD0005
20	14.9	1765	256TC	CEM2334T	24	176	59.5	92.6	93.3	93.0	70	79	84	6309	6208	E1	23.66	CD0005
25	18.7	3430	284TC	CEM4107T	28	236	37.2	93.0	93.5	93.0	82	88	91	6311	6308	E1	24.57	CD0180
25	18.7	1770	284TC	CEM4103T	30	188	74.2	92.4	93.6	93.6	72	81	84	6311	6309	E1	27.76	CD0005
30	22.4	1770	286TC	CEM4104T	36	246	89	93.8	94.4	94.1	66	75	83	6311	6309	E1	27.76	CD0005
40	30	1775	324TC	CEM4110T	46	320	118	93.9	94.6	94.5	73	81	86	6312	6311	E1	30.28	CD0180
50	37	1775	326TC	CEM4115T	57	392	149	94.4	94.9	94.5	73	82	87	6312	6311	E1	30.28	CD0180
60	45	1780	364TC	CEM4314T	69	447	177	94.7	95.2	95.0	74	82	86	6313	6312	E1	32.84	CD0180
75	56	1780	365TC	CEM4316T	84	610	221	94.7	95.4	95.4	73	81	87	6313	6312	E1	32.84	CD0005
100	74.6	1780	405TC	CEM4400T	109	790	295	95.2	95.6	95.4	83	89	90	6316	6313	F	38.06	CD0180

**NOTE:** Volt Code: E=208-230/460V, E1=230/460 volts usable at 208V, F=230/460V.

① Amps at 460V - double for 230V.

\*1-10 hp, 1750 rpm ratings. Also available from stock: C-face, less base. Catalog number is VEM instead of CEM.

See page 42 for Layout drawing. See pages 52-53 for Connection Diagrams.

**Performance Data: TEFC - Totally Enclosed Fan Cooled, C-Face  
575 Volts, Three Phase, 1 through 25 Hp**

Hp	kW	RPM	Frame	Catalog No.	Amps		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		"C" Dim.	Conn. Diag. No.
					Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE		
1	0.75	1750	143TC	CEM3581T-5	1.1	11.2	3.0	83.8	86.2	86.5	58	72	78	6205	6203	13.05	CD0006
1 1/2	1.1	3450	143TC	CEM3583T-5	1.6	15.8	2.3	81.3	84.3	85.5	68	78	83	6205	6203	13.05	CD0006
1 1/2	1.1	1750	145TC	CEM3584T-5	1.6	13.7	4.5	86.4	87.6	86.5	61	73	80	6205	6203	13.05	CD0006
2	1.5	3450	145TC	CEM3586T-5	2.0	24	3.0	83.8	86.2	86.5	70	80	85	6205	6203	13.05	CD0006
2	1.5	1725	145TC	CEM3587T-5	2.2	15.7	6.0	88.1	88.1	86.5	66	77	82	6205	6203	13.05	CD0006
3	2.2	3500	182TC	CEM3660T-5	2.7	27.6	4.5	87.5	89.1	88.5	83	89	92	6206	6205	16.00	CD0006
3	2.2	1760	182TC	CEM3661T-5	3.2	26	9.0	89.1	90.0	89.5	58	71	80	6206	6205	16.00	CD0006
5	3.7	3500	184TC	CEM3663T-5	4.6	50	7.5	88.2	89.8	89.5	77	86	90	6206	6205	16.00	CD0006
5	3.7	1750	184TC	CEM3665T-5	5.2	38	15	89.4	90.4	90.2	61	75	80	6206	6205	16.00	CD0006
7 1/2	5.6	3525	213TC	CEM3769T-5	6.9	60	11.2	90.0	91.4	91.0	79	87	90	6307	6206	19.20	CD0006
7 1/2	5.6	1770	213TC	CEM3770T-5	8.0	53.6	22.2	90.7	91.9	91.7	58	68	76	6307	6206	19.20	CD0006
10	7.5	3500	215TC	CEM3771T-5	9.0	96	15	92.7	92.9	91.7	82	89	92	6307	6206	19.20	CD0006
10	7.5	1760	215TC	CEM3774T-5	10.1	66.8	30	91.7	92.4	91.7	62	75	81	6307	6206	19.20	CD0006
15	11.2	1765	254TC	CEM2333T-5	14.8	99	44.5	91.3	92.5	92.4	67	78	82	6309	6208	23.66	CD0006
20	14.9	1765	256TC	CEM2334T-5	19	138	59	92.0	93.0	93.0	67	77	85	6309	6208	23.66	CD0006
25	18.7	1770	284TC	CEM4103T-5	23.9	188	74.2	91.4	93.6	93.6	72	81	84	6311	6309	27.76	CD0006

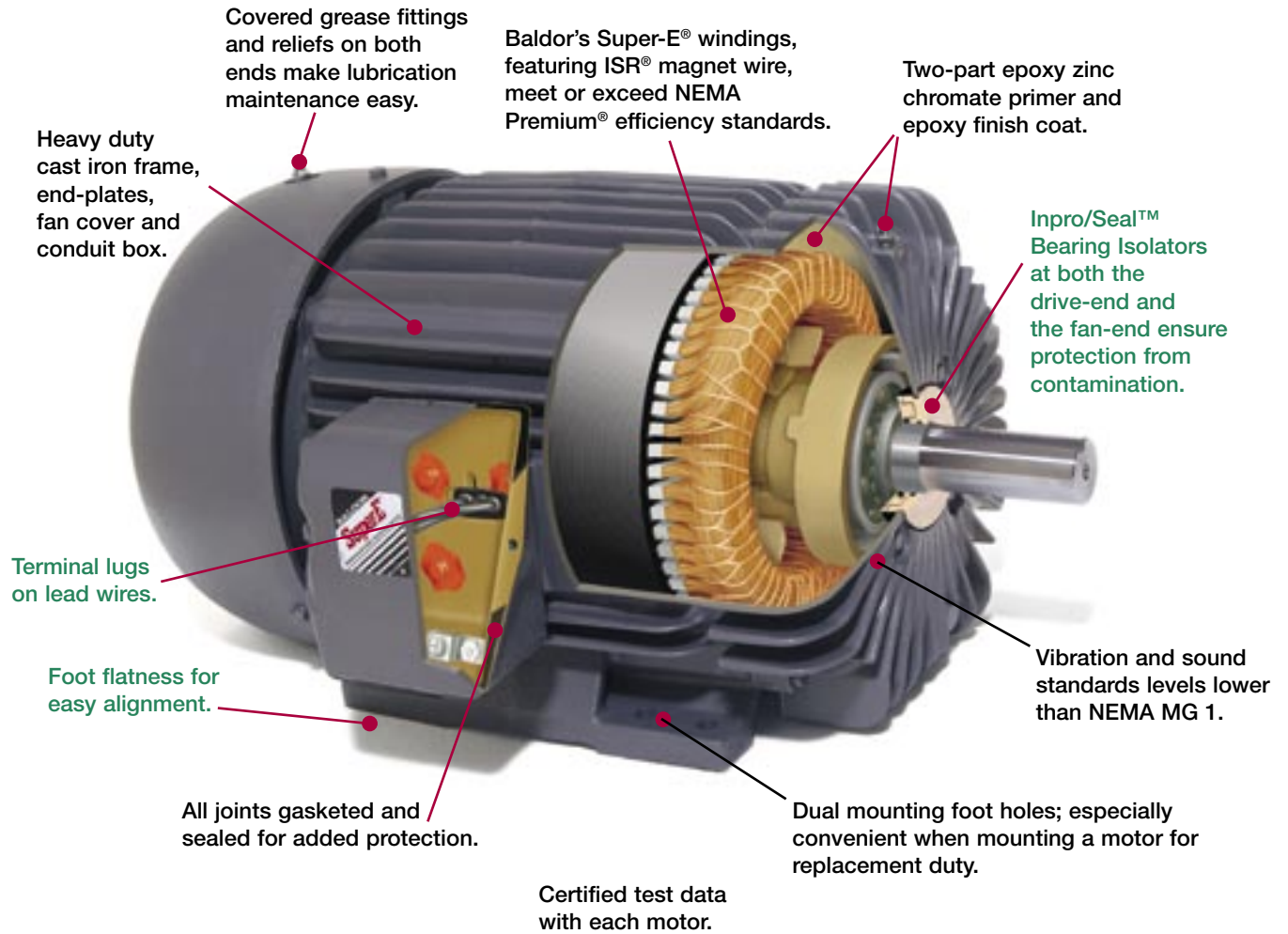
**NOTE:** 1-2 hp, 3450 rpm and 1-10 hp, 1750 rpm ratings. Also available from stock: C-face, less base. Catalog number is VEM instead of CEM.

See page 42 for Layout drawing. See page 52 for Connection Diagrams.

Efficiencies shown are nominal. Shaded ratings are cast iron frames. Data subject to change without notice. Contact Baldor for certified data.

## Gutsy Performers: Severe Duty and IEEE 841 Super-E® Premium Efficient Motors

Baldor Super-E Severe Duty and IEEE 841 motors are designed to deliver premium efficiency and rugged durability in the toughest environments. Design features common to both motors, and unique to the IEEE 841, are shown below.



### Plus...

- Documented motor performance and vibration test data shipped with motor
- Shaft run-out less than NEMA
- Sound power level less than 90 dBA
- Five-year warranty

■ Features found in Severe Duty and IEEE 841 motors.

■ Features found only in IEEE 841 motors.

## Super-E® Severe Duty Premium Efficient Motors



Designed to meet the demanding application requirements typically found in severe duty processing environments, Baldor Super-E Chemical Processing motors feature cast-iron frames, endplates and conduit boxes, regreasable ball bearings, oversized rotatable cast iron conduit box, Forsheda® shaft seal, Class F insulation, 2-part zinc-chromate primer inside and outside the motor with a corrosion resistant epoxy finish. These motors are tropicalized.



### Performance Data: TEFC - Totally Enclosed Fan Cooled, Rigid Base 460 Volts, Three Phase, 1 through 150 Hp

Hp	kW	RPM	Frame	Catalog No.	Amps		F.L. Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		"C" Dim.	Conn. Diag. No.
					F.L.	L.R.		1/2	3/4	F.L.	1/2	3/4	F.L.	DE	ODE		
1	.75	3450	143T	ECP3580T-4	1.4	12.1	1.5	80.5	83.6	84.0	65	77	82	6205	6203	12.75	CD0006
1	.75	1750	143T	ECP3581T-4	1.4	14	3.0	83.8	86.2	86.5	58	72	79	6205	6203	12.75	CD0006
1	.75	1150	145T	ECP3582T-4	1.8	9.6	4.5	82.3	84.0	82.5	42	55	63	6205	6203	12.75	CD0006
1.5	1.1	3450	143T	ECP3583T-4	2.0	20.1	2.3	81.3	84.3	85.5	68	78	83	6205	6203	12.75	CD0006
1.5	1.1	1740	145T	ECP3584T-4	2.0	16.8	4.5	86.4	87.6	86.5	61	73	80	6205	6203	12.75	CD0006
1.5	1.1	1160	182T	ECP3667T-4	2.6	12.5	6.8	83.6	86.2	86.5	42	54	62	6206	6205	15.93	CD0006
2	1.5	3450	145T	ECP3586T-4	2.5	30	3.0	83.8	86.2	86.5	70	80	85	6205	6203	12.75	CD0006
2	1.5	1725	145T	ECP3587T-4	2.7	19.6	6.0	88.1	88.1	86.5	66	77	82	6205	6203	12.75	CD0006
2	1.5	1160	184T	ECP3664T-4	3.6	20	9.0	84.6	87.1	87.5	39	51	59	6206	6205	15.93	CD0006
3	2.2	3500	182T	ECP3660T-4	3.4	34.5	4.5	87.5	89.1	88.5	83	89	92	6206	6205	15.93	CD0006
3	2.2	1760	182T	ECP3661T-4	4.0	32	9.0	89.1	90.0	89.5	58	71	80	6206	6205	15.93	CD0006
3	2.2	1160	213T	ECP3764T-4	5.0	32	13.5	88.3	89.9	89.5	45	57	64	6307	6206	19.32	CD0006
5	3.7	3500	184T	ECP3663T-4	5.7	62	7.5	88.2	89.8	89.5	77	86	90	6206	6205	15.93	CD0006
5	3.7	1750	184T	ECP3665T-4	6.5	54	15	89.7	90.7	90.2	62	74	80	6206	6205	15.93	CD0006
5	3.7	1160	215T	ECP3768T-4	8.0	54	22.5	86.7	88.6	89.5	46	58	64	6307	6206	19.32	CD0006
7.5	5.6	3525	213T	ECP3769T-4	8.6	75	11.2	90.0	91.4	91.0	79	87	90	6307	6206	19.32	CD0006
7.5	5.6	1770	213T	ECP3770T-4	9.8	67	22.2	90.7	91.9	91.7	56	68	76	6307	6206	19.32	CD0006
7.5	5.6	1180	254T	ECP2276T-4	10.7	70.1	33.3	90.6	91.8	91.7	53	65	71	6309	6208	23.25	CD0006
10	7.5	3500	215T	ECP3771T-4	11.2	120	15	92.7	92.9	91.7	82	89	92	6307	6206	19.32	CD0006
10	7.5	1760	256T	ECP3774T-4	12.6	83.5	30	91.7	92.4	91.7	62	75	81	6307	6206	19.32	CD0006
10	7.5	1180	256T	ECP2332T-4	14.2	93	44.4	90.2	91.6	91.7	55	66	72	6309	6208	23.25	CD0006
15	11.2	3525	254T	ECP2394T-4	17.2	128	22.2	90.8	91.9	91.7	78	86	88	6309	6208	23.25	CD0006
15	11.2	1765	254T	ECP2333T-4	18.5	122.9	44.6	91.9	92.6	92.4	66	77	82	6309	6208	23.25	CD0006
15	11.2	1180	284T	ECP4100T-4	18.7	132	66.7	92.3	92.8	92.4	65	76	81	6311	6309	27.56	CD0006
20	14.9	3540	256T	ECP4106T-4	23	201	29.7	91.1	92.3	92.4	74	84	89	6309	6208	23.25	CD0006
20	14.9	1765	256T	ECP2334T-4	24	175	59	92.8	93.1	93.0	69	80	84	6309	6208	23.25	CD0006
20	14.9	1180	286T	ECP4102T-4	25	178	89	92.3	92.9	92.4	65	75	81	6311	6309	27.56	CD0006
25	18.7	3530	284TS	ECP4107T-4	28	236	37.2	93.0	93.5	93.0	82	89	91	6311	6309	24.66	CD0006
25	18.7	1770	284T	ECP4103T-4	30	187.6	74.2	92.4	93.6	93.6	72	81	84	6311	6309	27.56	CD0006
25	18.7	1180	324T	ECP4111T-4	32	228	112	92.3	93.1	93.0	65	75	80	6312	6311	30.16	CD0006
30	22.4	3520	286TS	ECP4108T-4	33	281	44.7	93.2	93.5	93.0	83	89	92	6311	6309	24.66	CD0006
30	22.4	1770	286T	ECP4104T-4	36	246	89	93.8	94.4	94.1	66	75	83	6311	6309	27.56	CD0006
30	22.4	1180	326T	ECP4117T-4	39	285	134	92.4	93.2	93.0	61	72	79	6312	6311	30.16	CD0006
40	30	3540	324TS	ECP4109T-4	45	286	59.5	93.9	94.4	93.6	82	88	90	6312	6311	28.66	CD0006
40	30	1775	324T	ECP4110T-4	46	320	118	93.9	94.6	94.5	73	81	86	6312	6311	30.16	CD0006
40	30	1185	364T	ECP4308T-4	50.5	355	177	93.3	94.3	94.1	62	73	79	6313	6312	32.84	CD0006
50	37	3540	326TS	ECP4114T-4	54.2	422	74	93.8	94.4	94.1	85	90	92	6312	6311	28.66	CD0006
50	37	1775	326T	ECP4115T-4	57	392	149	94.4	94.9	94.5	73	82	87	6312	6311	30.16	CD0006
50	37	1185	365T	ECP4312T-4	61	409	221	93.8	94.3	94.1	67	77	81	6313	6312	32.84	CD0006
60	45	3565	364TS	ECP4310T-4	67	580	88.5	92.6	94	94.1	78	86	90	6313	6312	30.72	CD0006
60	45	1780	364T	ECP4314T-4	69	447	177	94.7	95.2	95.0	74	82	86	6313	6312	32.84	CD0006
60	45	1185	404T	ECP4403T-4	72.5	455	265	94.0	94.7	94.5	69	78	83	6316	6313	38.03	CD0006
75	56	3565	365TS	ECP4313T-4	82.8	740	111	93.4	94.6	94.5	81	87	90	6313	6312	30.72	CD0006
75	56	1780	365T	ECP4316T-4	86.5	649	222	94.9	95.5	95.4	73	81	85	6313	6312	32.84	CD0006
75	56	1185	405T	ECP4404T-4	88	579	331	94.3	95.1	95.0	72	80	84	6316	6313	38.03	CD0006
100	75	3560	405TS	ECP4402T-4	110	810	150	94.4	95.2	95.0	81	87	89	6313	6313	35.06	CD0006
100	75	1780	405T	ECP4400T-4	109	790	295	95.2	95.6	95.4	83	89	90	6316	6313	38.03	CD0006
100	75	1180	444T	ECP4409T-4	120	738	445	94.3	95.1	95.4	72	80	82	6319	6314	44.24	CD0006
125	93	3570	444TS	ECP4412T-4	136	974	184	94.6	95.5	95.4	81	88	90	6313	6313	40.50	CD0006
125	93	1780	444T	ECP4410T-4	139	960	368	95.1	95.5	95.4	80	86	88	6319	6314	44.24	CD0006
125	93	1190	445T	ECP4411T-4	150	1007	552	94.6	95.4	95.4	68	78	82	6319	6314	44.24	CD0006
150	112	3570	445TS	ECP4413T-4	164	1144	221	94.6	95.4	95.4	82	88	90	6313	6313	40.50	CD0006
150	112	1785	445T	ECP4406T-4	173	1070	442	95.6	96.0	95.8	71	80	85	6319	6314	44.24	CD0006
150	112	1190	445T	ECP44156T-4	173	1123	662	95.5	96.0	95.8	75	82	85	6319	6314	47.74	CD0006

**NOTE:** See page 39 for layout drawing. See page 52 for Connection Diagrams.  
Efficiencies shown are nominal. Data subject to change without notice. Contact Baldor for certified data.

Shaded ratings are cast iron frames.

## Super-E® Severe Duty Premium Efficient Motors

Performance Data: TEFC - Totally Enclosed Fan Cooled, Rigid Base, 460 Volts, Three Phase, 200 through 400 Hp

Hp	kW	RPM	Frame	Catalog No.	Amps		F.L. Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		“C” Dim.	Conn. Diag. No.
					F.L.	L.R.		1/2	3/4	F.L.	1/2	3/4	F.L.	DE	ODE		
200	150	3570	447TS	ECP4416T-4	220	1565	294	94.8	95.7	95.8	82	87	89	6313	6313	43.99	CD0006
200	150	1785	447T	ECP4407T-4	224	1595	588	95.8	96.3	96.2	77	84	87	6319	6314	47.74	CD0006
200	150	1180	449T	ECP44206T-4	242	1647	890	94.5	95.2	95.8	70	80	85	6319	6314	52.65	CD0006
250	187	3545	449TS	ECP44252T-4	272	2165	370	95.6	96.2	95.8	81	87	90	6314	6314	48.90	CD0006
250	187	1785	449T	ECP4408T-4*	275	1867	735	95.9	96.2	95.8	83	88	90	6319	6314	52.65	CD0006
250	187	1180	449TY	ECP44256T-4	294	1690	1105	95.0	95.6	95.8	73	80	83	6319	6314	54.37	CD0006
300	224	3560	449TS	ECP44302T-4	320	2546	442	95.1	95.4	95.8	86	90	91	6314	6314	48.90	CD0006
300	224	1785	449TY	ECP44304T-4*	333	2500	883	95.1	95.8	95.8	81	86	88	6319	6314	54.35	CD0006
300	224	1185	449T	ECP44306T-4*	355	2370	1328	94.3	95.0	95.0	71	80	83	6319	6314	54.35	CD0006
350	261	3560	449TS	ECP44352T-4	372	2550	518	95.3	95.6	95.4	92	93	93	6314	6314	48.90	CD0006
350	261	1785	449TY	ECP44354T-4*	388	2750	1032	95.3	95.6	95.8	83	87	89	6319	6314	54.35	CD0006
350	261	1190	5011LY	ECP50356L-4	386	2759	1545	95.8	96.2	95.8	80	86	88	6324	6222	72.05	CD0006
400	298	3545	449TS	ECP44402T-4	422	3155	593	95.4	95.8	95.8	89	92	93	6314	6314	48.90	CD0006
400	298	1780	449TY	ECP44404T-4*	440	3150	1179	95.6	95.9	95.8	83	88	89	6319	6314	54.35	CD0006

**Stock Ratings with Roller Bearings (for heavy belted loads)**

150	112	1190	447T	ECP44156TR-4	173	1123	662	95.5	96.0	95.8	75	82	85	NU319	6314	47.74	CD0006
200	150	1785	447T	ECP4407TR-4	224	1595	588	95.8	96.3	96.2	77	84	87	NU319	6314	47.74	CD0006
200	150	1180	449TY	ECP44206TR-4	242	1647	890	94.5	95.2	95.8	70	80	81	N319	6314	54.35	CD0006
250	187	1780	449TY	ECP4408TR-4	275	1867	735	95.9	96.2	95.8	83	88	90	N319	6314	54.35	CD0006
250	187	1180	449TY	ECP44256TR-4	294	1690	1105	95.0	95.6	95.8	73	80	83	N319	6314	54.35	CD0006
300	224	1785	449TY	ECP44304TR-4	333	2500	883	95.1	95.8	95.8	81	86	88	N319	6314	54.35	CD0006
300	224	1185	449TY	ECP44306TR-4*	355	2370	1328	94.3	95.0	95.0	71	80	83	N319	6314	54.35	CD0006
350	261	1785	449TY	ECP44354TR-4	388	2750	1032	95.3	95.6	95.8	83	87	89	N319	6314	54.35	CD0006
400	298	1780	449TY	ECP44404TR-4	440	3150	1179	95.6	95.9	95.8	83	88	89	N319	6314	54.35	CD0006

**NOTE:** \* ECP4408T, ECP4430T-4, ECP44306T-4, ECP44306TR-4, ECP44354T-4 & ECP44404T-4 does not comply with NEMA Premium® efficiency — a custom 5007L design is available.

## Performance Data: TEFC - Totally Enclosed Fan Cooled, Rigid Base 230/460 Volts, Three Phase, 1 through 75 Hp

Hp	kW	RPM	Frame	Catalog No.	Amps 460 V <sup>①</sup>		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		Volt Code	“C” Dim.	Conn. Diag. No.
					Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE			
1	0.75	1750	143T	ECP3581T	1.4	14	3.0	83.8	86.2	86.5	58	72	78	6205	6203	E	12.75	CD0005
1	0.75	1150	145T	ECP3582T	1.8	9.6	4.5	82.3	84.0	82.5	42	55	63	6205	6203	E	12.75	CD0005
1.5	1.1	1740	145T	ECP3584T	2.0	16.8	4.5	86.4	87.6	86.5	61	73	80	6205	6203	E	12.75	CD0005
1.5	1.1	1170	182T	ECP3667T	2.6	14.7	6.8	86.0	88.3	87.5	41	53	61	6206	6205	E	15.93	CD0005
2	1.5	1725	145T	ECP3587T	2.7	20.8	6.0	87.3	88.2	86.5	65	77	82	6205	6203	E	12.75	CD0005
2	1.5	1170	184T	ECP3664T	3.5	20.9	9.0	86.7	88.6	88.5	41	52	61	6206	6205	E	15.93	CD0005
3	2.2	1760	182T	ECP3661T	4.0	32	9.0	89.1	90.0	89.5	58	71	80	6206	6205	E1	15.93	CD0005
3	2.2	1160	213T	ECP3764T	5.0	32	13.5	88.3	89.9	89.5	45	57	64	6307	6206	E1	19.32	CD0005
5	3.7	1750	184T	ECP3665T	6.5	54	15	89.7	90.7	90.2	62	74	80	6206	6205	E1	15.93	CD0005
5	3.7	1160	215T	ECP3768T	8.0	54	22.5	89.2	90.2	89.5	46	58	64	6307	6206	E1	19.32	CD0005
7.5	5.6	1770	213T	ECP3770T	9.8	67	22.2	90.7	91.9	91.7	56	68	76	6307	6206	E1	19.32	CD0005
7.5	5.6	1180	254T	ECP2276T	10.7	70.1	33.3	90.6	91.8	91.7	53	65	71	6309	6208	E1	23.25	CD0005
10	7.5	1760	215T	ECP3774T	12.6	83.5	30	91.7	92.4	91.7	62	75	81	6307	6206	E1	19.32	CD0005
10	7.5	1180	256T	ECP2332T	14.2	93	44.4	90.2	91.6	91.7	55	66	72	6309	6208	E1	23.25	CD0180
15	11.2	1765	254T	ECP2333T	18.5	123	44.6	91.9	92.6	92.4	66	77	82	6309	6208	E1	23.25	CD0005
15	11.2	1180	284T	ECP4100T	18.7	132	66.7	92.3	92.8	92.4	65	76	81	6311	6309	E1	27.56	CD0180
20	14.9	1765	256T	ECP2334T	24	175	59	92.8	93.1	93.0	69	80	84	6309	6208	E1	23.25	CD0005
20	14.9	1175	286T	ECP4102T	25	174	89.3	92.2	92.7	92.4	67	77	81	6311	6309	E1	27.56	CD0005
25	18.7	1770	284T	ECP4103T	30	188	74.2	92.4	93.6	93.6	72	81	84	6312	6311	E1	27.56	CD0005
25	18.7	1180	324T	ECP4111T	32	228	112	92.3	93.1	93.0	65	75	80	6312	6311	E1	30.16	CD0005
30	22.4	1770	286T	ECP4104T	36	246	89	93.8	94.4	94.1	66	75	83	6312	6311	E1	27.56	CD0005
30	22.4	1180	326T	ECP4117T	39	285	134	92.4	93.2	93.0	61	72	79	6312	6311	E1	30.16	CD0005
40	29.8	1775	324T	ECP4110T	46	320	118	93.9	94.6	94.5	73	81	86	6312	6311	E1	30.16	CD0180
40	29.8	1185	364T	ECP4308T	49	327	177	93.7	94.3	94.1	67	77	81	6313	6312	E1	32.84	CD0005
50	37.3	1775	326T	ECP4115T	57	392	149	94.4	94.9	94.5	73	82	87	6312	6311	E1	30.16	CD0180
50	37.3	1185	365T	ECP4312T	61	409	221	93.8	94.3	94.1	67	77	81	6313	6312	E1	32.84	CD0005
60	44.8	1780	364T	ECP4314T	69	447	177	94.7	95.2	95.0	74	82	86	6313	6312	E1	32.84	CD0180
60	44.8	1185	404T	ECP4403T	72	452	265	93.8	94.7	94.5	69	78	82	6316	6313	E1	38.03	CD0180
75	56.0	1780	365T	ECP4316T	84	610	221	94.7	95.4	95.4	73	81	87	6313	6312	E1	32.84	CD0005
75	56.0	1185	405T	ECP4404T	88	579	331	94.3	95.1	95.0	72	80	84	6316	6313	E1	38.03	CD0180

**NOTE:** Volt Code: E=208-230/460, E1=230/460, usable on 208 volt.

① Amps at 460V - double for 230V. See page 39 for Layout drawing. See page 52-53 for Connection Diagrams.

Efficiencies shown are nominal. Data subject to change without notice. Contact Baldor for certified data.

Shaded ratings are cast iron frames.



**Super-E® Severe Duty Premium Efficient Motors** **NEMA Premium**

**Performance Data: TEFC - Totally Enclosed Fan Cooled, Rigid Base, 575 Volts, Three Phase, 1 through 200 Hp**

Hp	kW	RPM	Frame	Catalog No.	Amps		F.L. Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		"C" Dim.	Conn. Diag. No.
					F.L.	L.R.		1/2	3/4	F.L.	1/2	3/4	F.L.	DE	ODE		
1	0.75	1750	143T	ECP3581T-5	1.1	11.2	3.0	83.8	86.2	86.5	58	72	78	6205	6203	12.75	CD0006
1 1/2	1.1	1740	145T	ECP3584T-5	1.6	13.7	4.5	86.4	87.6	86.5	61	73	80	6205	6203	12.75	CD0006
2	1.5	1725	145T	ECP3587T-5	2.2	15.7	6.0	88.1	88.1	86.5	66	77	82	6205	6203	12.75	CD0006
3	2.2	1760	182T	ECP3661T-5	3.2	26	9.0	89.1	90.0	89.5	58	71	80	6206	6205	15.93	CD0006
3	2.2	1160	213T	ECP3764T-5	4.0	26	13.5	88.3	89.9	89.5	45	57	64	6307	6206	19.32	CD0006
5	3.7	1750	184T	ECP3665T-5	5.2	44	15	89.7	90.7	90.2	62	74	80	6206	6205	15.93	CD0006
5	3.7	1160	215T	ECP3768T-5	6.4	43.2	22.7	89.2	90.2	89.5	48	60	64	6307	6206	19.32	CD0006
7 1/2	5.6	1770	213T	ECP3770T-5	8.0	53.6	22.2	90.7	91.9	91.7	56	68	76	6307	6206	19.32	CD0006
7 1/2	5.6	1180	254T	ECP2276T-5	8.4	58	33.4	90.6	91.8	91.7	53	61	71	6309	6208	23.25	CD0006
10	7.5	1760	215T	ECP3774T-5	10.1	66.8	30	91.7	92.4	91.7	62	75	81	6307	6206	19.32	CD0006
10	7.5	1180	256T	ECP2332T-5	11.5	77	44.4	90.2	91.6	91.7	54	67	72	6309	6208	23.25	CD0006
15	11.2	1765	254T	ECP2333T-5	14.8	99	44.5	91.3	92.5	92.4	67	78	82	6309	6208	23.25	CD0006
15	11.2	1180	284T	ECP4100T-5	15	106	66.7	92.3	92.8	92.4	64	75	81	6311	6309	27.56	CD0006
20	14.9	1765	256T	ECP2334T-5	19.2	140	59	92.8	93.1	93.0	69	80	84	6309	6208	23.25	CD0006
20	14.9	1175	286T	ECP4102T-5	20	136	89.3	92.2	92.7	92.4	66	77	81	6311	6309	27.56	CD0006
25	18.7	1770	284T	ECP4103T-5	23.9	187.6	74.2	92.4	93.6	93.6	72	81	84	6311	6309	27.56	CD0006
25	18.7	1180	324T	ECP4111T-5	25.3	217	111	92.5	93.2	93.0	66	76	80	6312	6311	30.16	CD0006
30	22.4	1770	286T	ECP4104T-5	29	197	89	93.8	94.4	94.1	66	75	83	6311	6309	27.56	CD0006
40	30	1775	324T	ECP4110T-5	36.8	259	118	93.9	94.6	94.5	70	79	86	6312	6311	30.16	CD0006
50	37	1775	326T	ECP4115T-5	45.6	318	149	94.4	94.9	94.5	81	80	87	6312	6311	30.16	CD0006
60	45	1780	364T	ECP4314T-5	55	362	177	94.7	95.2	95.0	71	81	86	6313	6312	32.84	CD0006
75	56	1780	365T	ECP4316T-5	69.2	519	222	94.9	95.5	95.4	73	81	85	6313	6312	32.84	CD0006
100	74.6	1780	405T	ECP4400T-5	87	634	295	95.2	95.6	95.4	84	89	90	6316	6313	38.03	CD0006
125	93.25	1780	444T	ECP4410T-5	111.5	768	369	94.7	95.4	95.4	78	85	88	6319	6314	44.24	CD0006
150	111.9	1785	445T	ECP4406T-5	141	892	442	95.6	96.0	95.8	70	79	85	6319	6314	44.24	CD0006
200	149.2	1785	445T	ECP4407T-5	179	1340	587	94.9	95.8	96.2	75	83	87	6319	6314	47.74	CD0006

**NOTE:** See page 39 for Layout drawing. See page 52 for Connection Diagrams.

Shaded ratings are cast iron frames.



**Performance Data:**  
**TEFC - Totally Enclosed Fan Cooled, Rigid Base, 2300/4160 Volts, Three Phase, 200 through 500 Hp**

Hp	kW	RPM	Frame	Catalog No.	Amps 460 V <sup>①</sup>		F.L. Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		"C" Dim.	Conn. Diag. No.
					F.L.	L.R.		1/2	3/4	F.L.	1/2	3/4	F.L.	DE	ODE		
200	150	3560	449TS	ECP44202T-2341	25	159	295	93.5	94.2	94.1	87	90	92	6314	6314	48.90	CD0022
200	150	1785	449T	ECP44204T-2341	26	190	588	92.6	93.8	94.1	78	82	85	6319	6314	52.85	CD0022
250	187	3580	5007SY	ECP50252S-2341	31	407	367	94.4	95.1	95.0	86	90	91	6314	6314	54.03	CD0022
250	187	1790	5007L	ECP50254L-2341	31	214	734	92.7	94.3	95.0	81	87	89	6322	6222	56.93	CD0022
250	187	1185	5009L	ECP50256L-2341	33	214	1104	93.3	94.2	94.5	74	82	85	6324	6222	62.93	CD0022
300	224	3578	5007SY	ECP50302S-2341	36	260	440	94.7	95.3	95.4	85	90	91	6314	6314	54.03	CD0022
300	224	1790	5009L	ECP50304L-2341	37	239	880	93.4	94.9	95.4	83	88	90	6322	6222	62.93	CD0022
300	224	1185	5011LY	ECP50306L-2341	40	240	1325	93.7	94.5	94.1	76	84	85	6324	6222	72.05	CD0022
350	261	1790	5011LY	ECP50354L-2341	43	232	514	93.7	94.9	95.4	82	88	89	6322	6222	72.05	CD0022
350	261	1185	5011LY	ECP50356L-2341	46	300	1545	93.9	94.8	95.0	75	83	85	6324	6222	72.05	CD0022
400	298	3580	5007SY	ECP50402S-2341	48	332	587	94.8	95.5	95.4	86	91	91	6314	6314	54.03	CD0022
400	298	1790	5011LY	ECP50404L-2341	50	323	1174	93.8	95.0	95.4	82	87	89	6322	6222	72.05	CD0022
400	298	1185	5011LY	ECP50406L-2341	52	327	1762	94.8	95.0	95.4	76	81	84	6324	6222	72.05	CD0022
450	336	1790	5011LY	ECP50454L-2341	56	331	1320	94.1	95.2	95.4	83	88	89	6322	6222	72.05	CD0022
450	336	1190	5011LY	ECP50456L-2341	58	348	1983	94.8	95.0	95.4	76	82	85	6324	6222	72.05	CD0022
500	373	3580	5009SY	ECP50502S-2341	60	401	734	95.4	96.0	95.8	87	90	92	6314	6314	60.03	CD0022
500	373	1790	5011LY	ECP50504L-2341	60	386	1467	96.1	96.2	95.8	85	89	90	6322	6222	72.05	CD0022
500	373	1190	5011LY	ECP50506L-2341	72	415	2204	94.8	95.0	95.4	76	81	84	6324	6222	72.05	CD0022

**NOTE:** See pages 39-40 for Layout drawing. See page 53 for Connection Diagrams.

Shaded ratings are cast iron frames.

Efficiencies shown are nominal. Data subject to change without notice. Contact Baldor for certified data.

① Amps at 460V - double for 230V.

## Super-E® Severe Duty Premium Efficient Motors

### Performance Data: TEFC - Totally Enclosed Fan Cooled, C-Face, No Base - 460 Volts, Three Phase, 1 through 10 Hp

Hp	kW	RPM	Frame	Catalog No. ①*	Amps①		F.L. Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		"C" Dim.	Conn. Diag. No.
					F.L.	L.R.		1/2	3/4	F.L.	1/2	3/4	F.L.	DE	ODE		
1	0.75	3450	56C	VECP3580-4	1.4	12.1	1.5	80.5	83.6	84.0	65	77	82	6205	6203	12.69	CD0006
1	0.75	1750	56C	VECP3581-4	1.4	14	3.0	83.8	86.2	86.5	58	72	78	6205	6203	12.69	CD0006
1	0.75	1750	143TC	VECP3681T-4	1.4	14	3.0	83.8	86.2	86.5	58	72	78	6205	6203	12.75	CD0006
1 1/2	1.1	3450	143TC	VECP3583T-4	2.0	20.1	2.3	81.3	84.3	85.5	68	78	83	6205	6203	12.75	CD0006
1 1/2	1.1	1740	145TC	VECP3584T-4	2.0	16.8	4.5	86.4	87.6	86.5	61	73	80	6205	6203	12.75	CD0006
2	1.5	3450	145TC	VECP3586T-4	2.5	30	3.0	83.8	86.2	86.5	70	80	85	6205	6203	12.75	CD0006
2	1.5	1740	145TC	VECP3587T-4	2.7	19.6	6.0	88.1	88.1	86.5	66	77	82	6205	6203	12.75	CD0006
3	2.2	3500	182TC	VECP3660T-4	3.4	34.5	4.5	87.5	89.1	88.5	83	89	92	6206	6205	15.93	CD0006
3	2.2	1760	182TC	VECP3661T-4	4.0	32	9.0	89.1	90.0	89.5	58	71	80	6206	6205	15.93	CD0006
5	3.7	3500	184TC	VECP3663T-4	5.7	62	7.5	88.2	89.8	89.5	77	86	90	6206	6205	15.93	CD0006
5	3.7	1750	184TC	VECP3665T-4	6.5	54	15	89.7	90.7	90.2	62	74	80	6206	6205	15.93	CD0006
7 1/2	5.6	3500	213TC	VECP3769T-4	8.6	75	11.2	90.0	91.4	91.0	79	87	90	6307	6206	19.32	CD0006
7 1/2	5.6	1770	213TC	VECP3770T-4	9.8	67	22.2	90.7	91.9	91.7	56	68	76	6307	6206	19.32	CD0006
10	7.5	3525	215TC	VECP3771T-4	11.2	120	15	92.7	92.9	91.7	82	89	92	6307	6206	19.32	CD0006
10	7.5	1760	215TC	VECP3774T-4	12.6	83.5	30	91.7	92.4	91.7	62	75	81	6307	6206	19.32	CD0006

### Performance Data: TEFC - Totally Enclosed Fan Cooled, C-Face, No Base - 230/460 Volts, Three Phase, 1 through 25 Hp

Hp	kW	RPM	Frame	Catalog No. *	Amps 460 V①		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		Volt Code	"C" Dim.	Conn. Diag. No.
					Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE			
1	0.75	1750	56C	VECP3581	1.4	14	3.0	83.8	86.2	86.5	58	72	78	6205	6203	E	12.69	CD0005
1	0.75	1750	143TC	VECP3581T	1.4	14.3	3.0	83.0	86.0	86.5	53	67	75	6205	6203	E	12.75	CD0005
1	0.75	1150	145TC	VECP3582T	1.8	9.6	4.5	82.3	84.0	82.5	42	55	63	6205	6203	E	13.93	CD0005
1 1/2	1.1	1740	145TC	VECP3584T	2.0	16.8	4.5	86.4	87.6	86.5	61	73	80	6205	6203	E	12.75	CD0005
1 1/2	1.1	1170	182TC	VECP3667T	2.6	14.7	6.8	86.0	88.3	87.5	41	53	61	6206	6205	E	16.98	CD0005
2	1.5	1740	145TC	VECP3587T	2.7	20.8	6.0	87.3	88.2	87.5	65	77	82	6205	6203	E	12.75	CD0005
2	1.5	1160	184TC	VECP3664T	3.5	20.9	9.0	86.7	88.6	88.5	41	52	61	6206	6205	E	16.98	CD0005
3	2.2	1760	182TC	VECP3661T	4.0	32	9.0	89.1	90.0	89.5	58	71	80	6206	6205	E1	16.98	CD0005
3	2.2	1160	213TC	VECP3764T	5.0	32	13.5	88.3	89.9	89.5	45	57	64	6307	6206	E1	21.11	CD0005
5	3.7	1750	184TC	VECP3665T	6.5	54	15	89.7	90.7	90.2	62	74	80	6206	6205	E1	16.98	CD0005
5	3.7	1160	215TC	VECP3768T	8.0	54	22.5	86.7	88.6	89.5	46	58	64	6307	6206	E1	21.11	CD0005
7 1/2	5.6	1770	213TC	VECP3770T	9.8	67	22.2	90.7	91.9	91.7	56	68	76	6307	6206	E1	21.11	CD0005
7 1/2	5.6	1180	254TC	VECP2276T	10.7	70.1	33.3	90.6	91.8	91.7	53	65	71	6309	6208	E1	25.88	CD0005
10	7.5	1760	215TC	VECP3774T	12.5	91	30	91.7	92.4	91.7	62	75	81	6307	6206	E1	21.11	CD0005
10	7.5	1180	256TC	VECP2332T	14.2	93	44.4	90.2	91.6	91.7	55	60	72	6309	6208	E1	25.88	CD0180
15	11.2	1765	254TC	VECP2333T	18.5	123	44.6	91.9	92.6	92.4	66	77	82	6309	6208	E1	25.88	CD0005
15	11.2	1180	284TC	VECP4100T	18.7	132	66.7	92.3	92.89	92.4	65	76	81	6311	6309	E1	30.31	CD0180
20	14.9	1765	256TC	VECP2334T	24	175	59	92.8	93.1	93.0	69	80	84	6309	6208	E1	25.88	CD0005
20	14.9	1175	286TC	VECP4102T	25	173	89.3	92.2	92.7	92.4	67	77	81	6311	6309	E1	30.31	CD0005
25	18.6	1780	284TC	VECP4103T	30	188	74.2	92.4	93.6	93.6	72	81	84	6311	6309	E1	30.31	CD0005
25	18.6	1180	324TC	VECP4111T	32	228	111	92.3	93.1	93.0	65	75	80	6312	6311	E1	33.03	CD0005

**NOTE:** Volt Code: E=208-230/460 volt, E1=230/460 volt, usable on 208 volt.

Shaded ratings are cast iron frames.

① Amps at 460V - double for 230V.

See page 40 for Layout drawing. See page 52-53 for Connection Diagrams.

Efficiencies shown are nominal. Data subject to change without notice. Contact Baldor for certified data. Motors include drip cover.

\*CECP motors are available 1-75 Hp, 1750 RPM 230/460V ratings. Catalog numbers will begin with CECP and end with -4.

## Super-E® IEEE 841 Premium Efficient Motors

Baldor IEEE 841 motors deliver reliable, rugged performance with the industry's highest energy efficiencies. These motors exceed IEEE 841 - 2001 standards for severe duty TEFC induction motors. These motors contain all the standard features of our Severe Duty motor, plus: Inpro/Seal® bearing isolators at both the drive end and fan end to ensure protection from contaminants; tighter dimensional tolerances for foot flatness and shaft diameter; certified performance and balance tests shipped with each motor; and a 5-year warranty.



### Performance Data: TEFC - Totally Enclosed Fan Cooled, Rigid Base 460 Volts, Three Phase, 1 through 250 Hp

Hp	kW	RPM	Frame	Catalog No.	Amps		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		"C" Dim.	Conn. Diag. No.
					Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE		
1	0.75	3450	143T	ECP83580T-4	1.4	12.1	1.5	80.5	83.6	84.5	65	77	82	6205	6203	12.75	CD0006
1	0.75	1750	143T	ECP83581T-4	1.4	12.4	3.0	83.8	85.9	85.5	57	69	77	6205	6203	12.75	CD0006
1	0.75	1150	145T	ECP83582T-4	1.8	9.6	4.5	82.3	84.0	82.5	42	55	63	6205	6203	12.75	CD0006
1 1/2	1.1	3450	143T	ECP83583T-4	2.0	20.1	2.3	81.3	84.3	85.5	68	78	83	6205	6203	12.75	CD0006
1 1/2	1.1	1740	145T	ECP83584T-4	2.0	16.8	4.5	86.4	87.6	86.5	61	73	80	6205	6203	12.75	CD0006
1 1/2	1.1	1160	182T	ECP83667T-4	2.6	12.5	6.8	83.6	86.2	86.5	42	54	62	6206	6205	15.93	CD0006
2	1.5	3450	145T	ECP83586T-4	2.5	30	3.0	83.8	86.2	86.5	70	80	85	6205	6203	12.75	CD0006
2	1.5	1740	145T	ECP83587T-4	2.7	19.6	6.0	88.1	88.1	86.5	66	77	82	6205	6203	12.75	CD0006
2	1.5	1160	184T	ECP83664T-4	3.6	20	9.0	84.6	87.1	87.5	39	51	59	6206	6205	15.93	CD0006
3	2.2	3500	182T	ECP83660T-4	3.4	34.5	4.5	87.5	89.1	88.5	83	89	92	6206	6205	15.93	CD0006
3	2.2	1760	182T	ECP83661T-4	4.0	32	9.0	89.1	90.0	89.5	58	71	80	6206	6205	15.93	CD0006
3	2.2	1160	213T	ECP83764T-4	5.0	32	13.5	88.3	89.9	89.5	45	57	64	6307	6206	19.32	CD0006
5	3.7	3500	184T	ECP83663T-4	5.7	62	7.5	88.2	89.8	89.5	77	86	90	6206	6205	15.93	CD0006
5	3.7	1750	184T	ECP83665T-4	6.5	54	15	89.7	90.7	90.2	62	74	80	6206	6205	15.93	CD0006
5	3.7	1160	215T	ECP83768T-4	8.0	54	22.5	86.7	88.6	89.5	46	58	64	6307	6206	19.32	CD0006
7 1/2	5.6	3500	213T	ECP83769T-4	8.6	86	11.2	90.0	91.2	91.0	81	88	90	6307	6206	19.32	CD0006
7 1/2	5.6	1770	213T	ECP83770T-4	9.8	67	22.2	90.7	91.9	91.7	56	68	76	6307	6206	19.32	CD0006
7 1/2	5.6	1180	254T	ECP82276T-4	10.7	70.1	33.3	90.6	91.8	91.7	53	65	71	6309	6208	25.50	CD0006
10	7.5	3500	215T	ECP83771T-4	11.2	120	15	92.7	92.9	91.7	82	89	92	6307	6206	19.32	CD0006
10	7.5	1760	215T	ECP83774T-4	12.6	83.5	30	91.7	92.4	91.7	62	75	81	6307	6206	19.32	CD0006
10	7.5	1180	256T	ECP82332T-4	14.2	93	44.4	90.2	91.6	91.7	55	66	72	6309	6208	25.50	CD0006
15	11.2	3525	254T	ECP82394T-4	17.2	128	22.4	90.8	91.9	91.7	78	86	88	6309	6208	25.50	CD0006
15	11.2	1765	254T	ECP82333T-4	18.5	123	44.6	91.9	92.6	92.4	66	77	82	6309	6208	25.50	CD0006
15	11.2	1180	284T	ECP84100T-4	18.7	132	66.7	92.3	92.8	92.4	65	76	81	6311	6309	28.61	CD0006
20	14.9	3540	256T	ECP84106T-4	23	201	29.7	91.1	92.3	92.4	74	84	89	6309	6208	25.50	CD0006
20	14.9	1765	256T	ECP82334T-4	24	175	59.5	92.8	93.1	93.0	69	80	84	6309	6208	25.50	CD0006
20	14.9	1180	286T	ECP84102T-4	25	178	89.3	92.3	92.9	92.4	65	75	81	6311	6309	28.61	CD0006
25	18.7	3530	284TS	ECP84107T-4	28	196	37.2	92.4	93.2	93.0	82	89	91	6311	6309	27.24	CD0006
25	18.7	1770	284T	ECP84103T-4	30	188	74.2	92.4	93.6	93.6	72	81	84	6311	6309	28.61	CD0006
25	18.7	1180	324T	ECP84111T-4	32	217	111	92.5	93.2	93.0	66	76	80	6312	6311	30.16	CD0006
30	22.4	3530	286TS	ECP84108T-4	33	237	44.6	93.0	93.5	93.0	82	88	90	6311	6309	27.24	CD0006
30	22.4	1770	286T	ECP84104T-4	36	246	89	93.8	94.4	94.1	66	75	83	6311	6309	28.61	CD0006
30	22.4	1180	326T	ECP84117T-4	39	285	134	92.4	93.7	93.0	61	72	79	6312	6311	30.16	CD0006
40	30	3540	324TS	ECP84109T-4	45	286	59.5	93.9	94.4	93.6	82	88	90	6312	6311	30.50	CD0006
40	30	1775	324T	ECP84110T-4	46	320	118	93.9	94.6	94.5	73	81	86	6312	6311	30.16	CD0006
40	30	1185	364T	ECP84308T-4	50.5	355	177	93.3	94.3	94.1	62	73	79	6313	6312	32.84	CD0006
50	37	3540	326TS	ECP84114T-4	54.2	422	74	93.8	94.4	94.1	85	90	92	6312	6311	30.50	CD0006
50	37	1775	326T	ECP84115T-4	57	392	149	94.4	94.9	94.5	73	82	87	6312	6311	30.16	CD0006
50	37	1185	365T	ECP84312T-4	61	409	221	93.8	94.3	94.1	67	77	81	6313	6312	32.84	CD0006
60	45	3560	364TS	ECP84310T-4	67	580	88.6	92.6	94.0	94.1	78	86	90	6313	6312	30.13	CD0006
60	45	1780	364T	ECP84314T-4	69	447	177	94.7	95.2	95.0	74	82	86	6313	6312	32.84	CD0006
60	45	1185	404T	ECP84403T-4	72.5	455	265	94.0	94.7	94.5	69	78	83	6316	6313	38.03	CD0006
75	56	3565	365TS	ECP84313T-4	83	740	111	93.4	94.6	94.5	81	87	90	6313	6312	31.13	CD0006
75	56	1780	365T	ECP84316T-4	84	649	222	94.9	95.5	95.4	73	81	85	6313	6312	32.84	CD0006
75	56	1185	405T	ECP84404T-4	88	579	331	94.3	95.1	95.0	72	80	84	6316	6313	38.03	CD0006

**NOTE:** See page 41 for Layout drawing. See page 52 for Connection Diagrams.  
Efficiencies shown are nominal. Data subject to change without notice. Contact Baldor for certified data.

Shaded ratings are cast iron frames.

## Super-E® IEEE 841 Premium Efficient Motors

### Performance Data: TEFC - Totally Enclosed Fan Cooled, Rigid Base 460 Volts, Three Phase, 100 through 250 Hp

Hp	kW	RPM	Frame	Catalog No.	Amps		F.L. Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		“C” Dim.	Conn. Diag. No.
					F.L.	L.R.		1/2	3/4	F.L.	1/2	3/4	F.L.	DE	ODE		
100	74.6	1780	405T	ECP84400T-4	109	790	295	95.2	95.6	95.4	83	89	90	6316	6313	38.03	CD0006
100	74.6	3560	405TS	ECP84402T-4	110	777	148	93.9	94.9	95.0	81	87	89	6313	6313	35.75	CD0006
100	74.6	1180	444T	ECP84409T-4	120	738	445	94.3	95.1	95.4	72	80	82	6319	6314	44.25	CD0006
125	93.2	3570	444TS	ECP84412T-4	136	974	184	94.6	95.5	95.4	81	88	90	6314	6314	40.50	CD0006
125	93.2	1780	444T	ECP84410T-4	139	960	369	94.7	95.4	95.4	78	85	88	6319	6314	44.25	CD0006
125	93.2	1190	445T	ECP84411T-4	150	1007	552	94.6	95.4	95.4	68	78	82	6319	6314	44.25	CD0006
150	112	3570	445TS	ECP84413T-4	165	1210	221	94.8	95.7	95.8	81	87	89	6314	6314	40.50	CD0006
150	112	1785	445T	ECP84406T-4	173	1070	442	95.6	96.0	95.8	71	80	85	6319	6314	44.24	CD0006
150	112	1190	447T	ECP844156T-4	173	1123	662	95.5	96.0	95.8	75	82	85	6319	6314	47.74	CD0006
200	149.2	3570	447TS	ECP84416T-4	220	1565	294	94.8	95.7	95.8	82	87	89	6314	6314	49.00	CD0006
200	149.2	1785	447T	ECP84407T-4	224	1595	588	95.8	96.3	96.2	77	84	87	6319	6314	47.74	CD0006
200	149.2	1180	449T	ECP844206T-4	242	1647	890	94.5	95.2	95.8	70	80	81	6319	6314	52.68	CD0006
250	186.5	3570	449TS	ECP844252T-4	272	2165	370	95.6	96.2	95.8	81	87	90	6314	6314	49.00	CD0006
250	186.5	1785	449T	ECP84408T-4	275	1867	735	95.9	96.2	95.8	83	88	90	6319	6314	52.68	CD0006
250	186.5	1180	449T	ECP844256T-4	294	1690	1105	95.0	95.6	95.8	73	80	83	6319	6314	54.37	CD0006

NOTE: See page 41 for Layout drawing. See page 52 for Connection Diagrams.

Shaded ratings are cast iron frames.

### Performance Data: TEFC - Totally Enclosed Fan Cooled, Rigid Base 575 Volts, Three Phase, 1 through 250 Hp

Hp	kW	RPM	Frame	Catalog No.	Amps		F.L. Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		“C” Dim.	Conn. Diag. No.
					F.L.	L.R.		1/2	3/4	F.L.	1/2	3/4	F.L.	DE	ODE		
1	0.75	1750	143T	ECP83581T-5	1.1	9.8	3.0	83.8	85.9	85.5	57	69	77	6205	6203	12.75	CD0006
1 1/2	1.1	1740	145T	ECP83584T-5	1.6	12.5	4.5	86.6	87.4	86.5	65	76	82	6205	6203	12.75	CD0006
2	1.5	1725	145T	ECP83587T-5	2.2	15.7	6.0	88.1	88.1	86.5	66	77	82	6205	6203	12.75	CD0006
3	2.2	1760	182T	ECP83661T-5	3.2	26	9.0	89.1	90.0	89.5	58	71	80	6206	6205	15.93	CD0006
5	3.7	1750	184T	ECP83665T-5	5.2	44	15	89.7	90.7	90.2	62	74	80	6206	6205	15.93	CD0006
7 1/2	5.6	1770	213T	ECP83770T-5	8.0	53.6	22.2	90.7	91.9	91.7	56	68	76	6307	6206	19.32	CD0006
10	7.5	1760	215T	ECP83774T-5	10.1	66.8	30	91.7	92.4	91.7	62	75	81	6307	6206	19.32	CD0006
15	11.2	1765	254T	ECP82333T-5	14.8	99	44.5	91.3	92.5	92.4	67	78	82	6309	6208	25.50	CD0006
20	14.9	1765	256T	ECP82334T-5	19.2	140	59	92.8	93.1	93.0	69	80	84	6309	6208	25.50	CD0006
25	18.7	1770	284T	ECP84103T-5	23.9	188	74.2	92.4	93.6	93.6	72	81	84	6311	6309	28.61	CD0006
30	22.4	1770	286T	ECP84104T-5	29	197	89	93.8	94.4	94.1	66	75	83	6311	6309	28.61	CD0006
40	30	1775	324T	ECP84110T-5	36.8	259	118	93.9	94.6	94.5	70	79	86	6312	6311	30.16	CD0006
50	37	1775	326T	ECP84115T-5	45.6	318	149	94.4	94.9	94.5	81	80	87	6312	6311	30.16	CD0006
60	45	1780	364T	ECP84314T-5	55	375	177	93.6	94.8	95.0	73	81	86	6313	6312	32.84	CD0006
75	56	1780	365T	ECP84316T-5	69.2	519	222	94.9	95.5	95.4	73	81	85	6313	6312	32.84	CD0006
100	74.6	1780	405T	ECP84400T-5	87	634	295	95.2	95.6	95.4	84	89	90	6316	6313	38.03	CD0006
125	93.2	1780	444T	ECP84410T-5	111.5	768	369	94.7	95.4	95.4	78	85	88	6319	6314	44.24	CD0006
150	111.9	1785	445T	ECP84406T-5	141	892	442	95.6	96.0	95.8	70	79	85	6319	6314	44.24	CD0006
200	149.2	1785	447T	ECP84407T-5	179	1340	587	94.9	95.8	96.2	75	83	87	6319	6314	47.74	CD0006
250	186.5	1785	449T	ECP84408T-5	220	1496	735	95.6	95.8	95.8	83	88	90	6319	6314	52.68	CD0006

NOTE: See page 41 for Layout drawing. See page 52 for Connection Diagrams.

Shaded ratings are cast iron frames.

Efficiencies shown are nominal. Data subject to change without notice. Contact Baldor for certified data.



## Super-E® IEEE 841 Premium Efficient Motors

**Performance Data: TEFC - Totally Enclosed Fan Cooled, C-Face, Rigid Base, 460 Volts, Three Phase, 1 through 75 Hp**

Hp	kW	RPM	Frame	Catalog No.	Amps		F.L. Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		"C" Dim.	Conn. Diag. No.
					F.L.	L.R.		1/2	3/4	F.L.	1/2	3/4	F.L.	DE	ODE		
1	0.75	3450	143TC	CECP83580T-4	1.4	12.1	1.5	80.5	83.6	84.5	65	77	82	6205	6203	13.25	CD0006
1	0.75	1750	143TC	CECP83581T-4	1.4	14	3.0	83.8	86.2	86.5	54	72	78	6205	6203	13.25	CD0006
1 1/2	1.1	3450	143TC	CECP83583T-4	2.0	20.1	2.3	81.3	84.3	85.5	68	78	83	6205	6203	13.25	CD0006
1 1/2	1.1	1740	145TC	CECP83584T-4	2.0	16.8	4.5	86.4	87.6	86.5	61	73	80	6205	6203	13.25	CD0006
2	1.5	3450	145TC	CECP83586T-4	2.5	30	3.0	83.8	86.2	86.5	70	80	85	6205	6203	13.25	CD0006
2	1.5	1725	145TC	CECP83587T-4	2.7	19.6	6.0	88.1	88.1	86.5	66	77	82	6205	6203	13.25	CD0006
3	2.2	3500	182TC	CECP83660T-4	3.4	34.5	4.5	87.5	89.1	88.5	83	89	92	6206	6205	16.69	CD0006
3	2.2	1760	182TC	CECP83661T-4	4.0	32	9.0	89.1	90.0	89.5	58	71	80	6206	6205	16.69	CD0006
5	3.7	3500	184TC	CECP83663T-4	5.7	62	7.5	88.2	89.8	89.5	77	86	90	6206	6205	16.69	CD0006
5	3.7	1750	184TC	CECP83665T-4	6.5	54	15	89.7	90.7	90.2	62	74	80	6206	6205	16.69	CD0006
7 1/2	5.6	3525	213TC	CECP83769T-4	8.6	75	11.2	90.0	91.4	91.0	79	87	90	6307	6206	20.06	CD0006
7 1/2	5.6	1770	213TC	CECP83770T-4	9.8	67	22.2	90.7	91.9	91.7	56	68	76	6307	6206	20.06	CD0006
10	7.5	3500	215TC	CECP83771T-4	11.2	120	15	92.7	92.9	91.0	82	89	92	6307	6206	20.06	CD0006
10	7.5	1760	215TC	CECP83774T-4	12.6	89.5	30	91.2	92.4	91.7	62	75	81	6307	6206	20.06	CD0006
15	11.2	3525	254TC	CECP82394T-4	17.2	128	22.2	90.8	91.9	91.7	78	86	88	6309	6208	26.00	CD0006
15	11.2	1765	254TC	CECP82333T-4	18.5	123	44.6	91.9	92.6	92.4	66	77	82	6309	6208	26.00	CD0006
20	14.9	3540	256TC	CECP84106T-4	23	201	29.7	91.1	92.3	92.4	74	84	89	6309	6208	26.00	CD0006
20	14.9	1765	256TC	CECP82334T-4	24	175	59	92.8	93.1	93.0	69	80	84	6309	6208	26.00	CD0006
25	18.7	3530	284TSC	CECP84107T-4	28	196	37.2	92.4	93.2	93.0	82	89	91	6311	6309	27.24	CD0006
25	18.7	1770	284TC	CECP84103T-4	30	190	74.2	92.4	93.6	93.6	72	81	84	6311	6309	28.61	CD0006
30	22.4	3530	284TSC	CECP84108T-4	33	237	44.6	93.0	93.5	93.0	82	88	90	6311	6309	27.24	CD0006
30	22.4	1770	286TC	CECP84104T-4	36	246	89	93.8	94.4	94.1	66	75	83	6311	6309	28.61	CD0006
40	30	3540	324TSC	CECP84109T-4	45	286	59.5	93.9	94.4	93.6	82	88	90	6312	6311	30.50	CD0006
40	30	1775	324TC	CECP84110T-4	46	320	118	93.9	94.6	94.5	73	81	86	6312	6311	30.16	CD0006
50	37	3540	326TSC	CECP84114T-4	54.2	422	74	93.8	94.4	94.1	85	90	92	6312	6311	30.50	CD0006
50	37	1775	326TC	CECP84115T-4	57	392	149	94.4	94.9	94.5	73	82	87	6312	6311	30.16	CD0006
60	45	3560	364TSC	CECP84310T-4	67	580	88.5	92.6	94.0	94.1	78	86	90	6313	6312	31.13	CD0006
60	45	1780	364TC	CECP84314T-4	69	441	177	94.7	95.2	95.0	74	82	86	6313	6312	32.84	CD0006
75	56	3565	365TSC	CECP84313T-4	83	740	111	93.4	94.6	94.5	81	87	90	6313	6312	31.13	CD0006
75	56	1780	365TC	CECP84316T-4	86.5	649	222	94.9	95.5	95.4	73	81	85	6313	6312	32.84	CD0006

**NOTE:** See page 42 for Layout drawing. See page 52 for Connection Diagrams. Efficiencies shown are nominal. Data subject to change without notice. Contact Baldor for certified data.

Shaded ratings are cast iron frames.

## ODP and WPI Super-E® Motor Construction

Baldor Super-E ODP (Open Drip Proof) motors meet or exceed NEMA Premium® premium efficiency for applications where an open motor may be used. The “drip proof” construction provides some protection from the environment, but is best for relatively clean, weather-protected applications. Air circulates freely through the motor for cooling. These motors are available from stock in single or three phase, rigid base, C-face or close-coupled pump mountings.



Baldor Super-E WPI (Weather-Proof, Type 1) for 5000 frame and larger motors have a louvered cover and screens over outlet vents for added protection from the weather, debris and pests. WPI motors are available in 5000 frame and larger.

### Super-E ODP Premium Efficiency Motor Family

	ODP	ODP-WPI
	143T-447T Frames	449T-5810 Frames
<b>Electrical Features</b>		
HP Range - Stock	1-300	
HP Range - Custom	1 - 350	200 - 1500 HP
Class F insulation with Class B rise	S	S
1.15 Service factor	S	S
200°C Inverter Spike Resistant magnet wire	S	S
Phase insulation	S	S
Corona inception testing - meets NEMA Part 31.4.4.2	S	S
Varnish dip & bake with 100% solids	S	N/A
VPI with 2-part epoxy varnish with 100% solids	O	S
No silicon lead wire	S	S
Short commercial test (no-load amps, speed, balance and hi-pot test per NEMA MG 1-1998)	S	
Standard test with data sheet supplied with motor (Balance, winding resistance, no load & full load amps and speed, power factor, torque and actor, torque and hi-pot test per NEMA)	O	S
MG 1-1998		
	ODP	ODP-WPI
	143T-447T Frames	449T-5810 Frames
<b>Mechanical Features</b>		
NEMA Frame sizes	143T - 447T Frames	449T - 5810 Frames
Steel band with die cast aluminum endplates	143T - 365T Frames	N/A
Steel band with cast iron endplates	404 - 405T Frames	N/A
Cast iron frame - cast iron endplates	365T - 445T Frames	449T - 5810 Frames
Cast Aluminum conduit box	Optional	S
Cast Iron conduit box	143T - 365T Frames	
Hardware - cad plated	404 - 445T	S
Motor unfiltered vibration at rated voltage and frequency <0.15 in/sec. peak velocity	S	
Grease inlet with fitting	S	S
Grease outlet with pressure relief	143T - 215T	
Grease outlet with pressure relief	254T - 447T	S
Castings coated with 2-part epoxy primer	O	S
Finish paint with Super-E Gold enamel	S	
Finish paint with 2-part dark gray epoxy	O	S
Embossed stainless steel nameplate with NEMA data	S	S
Limited Warranty	3 years	3 years

**NOTE:** WPII motors are available in 5000 frame and large.

S = Standard, O = Optional

“Approvals: All NEMA 143T through 445T, equivalent IEC frame motors are listed under UL recognized component file # E46145. NEMA 143T through 449T are listed under CSA recognized component file # LR2262. CSA recognition is pending for 5000 and 5800 open frames - check with Baldor for status.

## ODP and WPI - Super-E® Capabilities

### Three Phase

**Typical Frame Size / Speed - RPM**

Hp	3600	1800	1200	900
1	56	143T	145T	182T
1 1/2	143T	145T	182T	184T
2	145T	145T	184T	213T
3	145T	182T	213T	215T
5	182T	184T	215T	254T
7 1/2	184T	213T	254T	256T
10	213T	215T	256T	284T
15	215T	254T	284T	286T
20	254T	256T	286T	324T
25	256T	284T	324T	326T
30	284T	286T	326T	364T
40	286T	324T	364T	365T
50	324T	326T	365T	404T
60	326T	364T	404T	405T
75	364T	365T	405T	444T
100	365T	404T	444T	445T
125	404T	405T	445T	447T
150	405TS, 444TS or 449TS	444T or 449T	445T or 5007L	449T or 5009L
200	444TS or 449TS	445T or 449T	445T, 449T or 5009L	5009L
250	445TS or 449TS	445T or 449T	5009L	5009L or 5011L
300	445TS or 449TS	445T or 5009L	5009L	5011L
350	445TS, 449TS or 5009S	447T, 449T or 5009L	5009L	5810
400	449TS or 5009S	449T or 5009L	5009L	5810
450	449TS or 5009S	449T or 5009L	5011L	5810
500	5009S	5009L	5011L	5810
600	5009S	5009L	5011L or 5810	5810
700	5009S	5011L or 5810	5810	5810
800	5808S	5808	5810	5812
900	5808S	5810	5812	
1000	5808S	5810		
1250	5810S	5812		
1500	5810S	5812		

**NOTE:** Shaded area denotes Stock motors.  
See Performance Data for voltage and frame availability.

## Open Drip Proof Super-E® Premium Efficient Motors



### Performance Data: ODP - Open Drip Proof, Rigid Base 230/460 Volts, Three Phase, 1 through 75 Hp

Hp	kW	RPM	Frame	Catalog No.	Amps 460 V <sup>①</sup>		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		Volt Code	"C" Dim.	Conn. Diag. No.
					Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE			
1	0.75	3450	56	EM3115	1.4	12.6	1.5	80.4	83.5	84.0	71	80	83	6205	6203	E1	11.06	CD0005
1	0.75	1740	143T	EM3116T	1.4	10.8	3.0	83.3	85.6	85.5	57	70	78	6205	6203	E	11.12	CD0005
1	0.75	1140	145T	EM3156T	1.8	9.9	4.5	80.1	82.9	82.5	42	54	63	6205	6203	F	12.12	CD0005
1 1/2	1.1	3450	143T	EM3120T	2.1	16	2.2	83.9	85.4	85.5	71	80	85	6205	6203	E	11.12	CD0005
1 1/2	1.1	1740	145T	EM3154T	2.1	17.5	4.5	85.4	87.1	86.5	56	69	77	6205	6203	E	12.12	CD0005
1 1/2	1.1	1170	182T	EM3207T	2.6	14	6.76	84.7	87.2	87.5	41	53	62	6206	6205	E	15.00	CD0005
2	1.5	3450	143T	EM3155T	2.5	22	3.0	87.8	88.1	86.5	78	86	90	6205	6203	E	11.62	CD0005
2	1.5	1725	145T	EM3157T	2.7	19.6	6.0	87.9	88.3	86.5	64	76	82	6205	6203	E	13.00	CD0005
2	1.5	1170	184T	EM3215T	3.5	19.8	8.9	86.0	88.3	88.5	40	52	60	6206	6205	E	16.50	CD0005
3	2.2	3450	145T	EM3158T	3.7	29	4.5	87.1	88.5	87.5	76	85	89	6205	6203	E1	13.00	CD0005
3	2.2	1760	182T	EM3211T	4.1	32	9.0	89.1	90.0	89.5	58	71	77	6206	6205	E	15.00	CD0005
3	2.2	1160	213T	EM3305T	4.4	26.6	13.6	88.1	89.1	88.5	55	66	72	6307	6206	E1	16.32	CD0005
5	3.7	3500	182T	EM3212T	5.6	55	7.5	90.5	90.8	90.2	83	90	93	6206	6205	E	15.00	CD0005
5	3.7	1750	184T	EM3218T	6.5	51	15	91.3	91.6	89.5	60	73	80	6206	6205	E1	15.00	CD0005
5	3.7	1160	215T	EM3309T	7.5	49.7	22.5	89.7	90.9	90.2	49	61	68	6307	6206	E1	17.45	CD0005
7 1/2	5.6	3500	184T	EM3219T	8.0	75	11.4	92.1	91.9	90.2	88	93	95	6206	6205	F	16.50	CD0005
7 1/2	5.6	1760	213T	EM3311T	10	61	22.5	89.6	91.0	91.0	61	73	79	6307	6206	E1	16.32	CD0005
7 1/2	5.6	1180	254T	EM2506T	10.7	63	33.2	89.2	91.2	91.7	54	66	71	6309	6208	E1	23.19	CD0005
10	7.5	3500	213T	EM3312T	11.5	98	15	90.9	92.0	91.7	81	87	90	6307	6206	E1	17.45	CD0005
10	7.5	1760	215T	EM3313T	12.9	96	29.6	90.8	91.8	91.7	61	72	80	6307	6206	E1	17.45	CD0005
10	7.5	1180	256T	EM2511T	14.3	91.8	44.4	91.0	92.0	91.7	54	65	71	6309	6208	E1	23.19	CD0180
15	11.2	3525	215T	EM3314T	17	143	22.5	91.9	92.3	91.7	80	87	92	6307	6206	E1	17.45	CD0005
15	11.2	1765	254T	EM2513T	17.7	118	44.6	93.3	93.5	93.0	70	81	86	6309	6208	E1	21.69	CD0180
15	11.2	1180	284T	EM2524T	19.5	140	66.8	91.4	92.6	92.4	60	72	78	6311	6309	F	25.06	CD0005
20	14.9	3510	254T	EM2514T	22.5	145	29.9	93.5	93.3	92.4	79	87	90	6309	6208	E1	21.69	CD0180
20	14.9	1765	256T	EM2515T	23.5	161	59.4	92.5	93.2	93.0	71	81	86	6309	6208	E1	21.69	CD0180
20	14.9	1180	286T	EM2528T	26	171	90	91.8	92.7	92.4	63	74	80	6311	6309	E1	25.06	CD0005
25	18.7	3525	256T	EM2516T	28	200	37.3	93.0	93.4	93.0	81	88	91	6309	6208	E1	21.69	CD0005
25	18.7	1770	284T	EM2531T	30	190	74.1	93.4	94.2	94.1	69	79	83	6311	6309	E1	23.81	CD0005
25	18.7	1180	324T	EM2532T	31	222	111	93.3	93.9	93.6	65	76	80	6312	6311	E1	26.69	CD0180
30	22.4	3540	284TS	EM2534T	34	229	44.8	92.6	93.5	93.6	80	87	90	6311	6309	F	22.44	CD0180
30	22.4	1770	286T	EM2535T	35	224	88.9	93.6	94.2	94.1	72	82	85	6311	6309	E1	25.06	CD0005
30	22.4	1180	326T	EM2536T	37	280	134	93.2	93.9	93.6	67	77	81	6312	6311	E1	28.69	CD0180
40	30.0	3540	286TS	EM2538T	44	355	59.8	94.4	94.7	94.1	79	85	88	6311	6309	F	23.69	CD0180
40	30.0	1775	324T	EM2539T	46	313	118	94.2	94.8	94.5	72	82	86	6312	6311	E1	26.69	CD0180
40	30.0	1185	364T	EM2540T	50	315	177	93.6	94.2	94.1	65	75	80	6313	6312	E1	29.69	CD0005
50	37.0	3530	324TS	EM2542T	55	408	74.2	94.7	94.8	94.1	82	87	90	6312	6309	F	25.69	CD0180
50	37.0	1775	326T	EM2543T	57	378	148	94.5	94.9	94.5	75	84	87	6312	6311	E1	27.69	CD0180
50	37.0	1185	365T	EM2544T	62	380	221	93.9	94.4	94.1	66	76	80	6313	6312	E1	29.69	CD0180
60	45.0	3540	326TS	EM2546T	65	493	88.9	94.7	95.0	94.5	86	90	92	6312	6311	F	25.19	CD0180
60	45.0	1775	364T	EM2547T	68	470	177	94.9	95.3	95.0	77	85	87	6313	6311	E1	30.69	CD0180
60	45	1185	404T	EM2548T-4	72	441	266	94.1	95.0	95.0	69	79	83	6316	6315	G	34.00	CD0382
75	56.0	3540	364TS	EM2549T	82	557	111	95.1	95.0	94.5	86	90	91	6313	6311	F	25.81	CD0180
75	56.0	1775	365T	EM2551T	85	512	222	95.5	95.7	95.0	78	84	87	6313	6312	F	33.72	CD0180
75	56	1185	405T	EM2552T-4	88	537	331	94.8	95.3	95.0	73	81	84	6316	6315	G	34.00	CD0382

**NOTE:** Volt Code: E=208-230/460 volts, E1=230/460 volts usable at 208, F=230/460 volts, G=460 volts. Shaded ratings are cast iron frames.

① Amps at 460V - double for 230V.

See page 43 for Layout drawing. See pages 52-54 for Connection Diagrams.

Efficiencies shown are nominal. Data subject to change without notice. Contact Baldor for certified data.





**Performance Data: ODP - Open Drip Proof, Rigid Base  
460 Volts, Three Phase, 100 through 300 Hp**

Hp	kW	RPM	Frame	Catalog No.	Amps 460 V <sup>①</sup>		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		Volt Code	"C" Dim.	Conn. Diag. No.
					Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE			
100	74.6	3540	365TS	EM2550T	109	748	148	95.1	95.0	94.5	86	90	91	6313	6311	F	26.81	CD0180
100	74.6	1780	404T	EM2555T-4	115	765	295	95.4	95.8	95.4	73	82	85	6316	6312	G	36.97	CD0382
100	74.6	1190	444T	EM2583T-4	123	730	441	94.5	95.1	95.0	66	76	80	6319	6313	G	39.62	CD0382
125	93.25	3550	404TS	EM2554T-4	139	955	184	95.2	95.5	95.0	82	88	89	6312	6312	G	31.85	CD0382
125	93.25	1775	405T	EM2559T-4	143	914	369	95.5	95.7	95.4	77	84	86	6316	6315	G	34.47	CD0382
125	93.25	1190	445T	EM2557T-4	146	944	552	95.7	96.0	95.8	72	81	83	6319	6313	G	39.62	CD0382
150	111.9	3560	405TS	EM2556T-4	161	1161	222	95.5	95.9	95.4	86	90	91	6312	6312	G	29.85	CD0382
150	111.9	1780	444T	EM2558T-4	170	1106	441	95.7	96.1	95.8	77	84	86	6319	6313	G	39.62	CD0382
150	111.9	1190	445T	EM2560T-4	176	1141	662	95.8	96.1	95.8	72	80	83	6319	6313	G	39.62	CD0382
200	149.2	3560	444TS	EM2562T-4	217	1460	294	94.9	95.6	95.4	84	89	90	6313	6313	G	35.88	CD0382
200	149.2	1780	445T	EM2563T-4	226	1415	589	95.5	96.0	95.8	78	84	87	6319	6313	G	39.62	CD0382
200	149.2	1190	447T	EM2564T-4	234	1485	883	95.8	96.0	95.8	63	81	84	6319	6314	G	48.12	CD0382
250	186.5	1780	445T	EM2566T-4	280	1719	737	96.2	96.2	95.8	79	85	87	6319	6313	G	39.62	CD0382
300	223.8	1780	445T	EM2569T-4	335	2067	885	96.4	96.4	95.8	80	86	88	6319	6313	G	39.62	CD0382

**NOTE:** Volt Code: G=460 volts. Shaded ratings are cast iron frames.  
<sup>①</sup> Amps at 460V - double for 230V. See page 43 for Layout drawing. See page 53-54 for Connection Diagrams.

**Performance Data: ODP - Open Drip Proof, Rigid Base,  
F-2 Mount, 230/460 Volts, Three Phase, 1 through 100 Hp**

Hp	kW	RPM	Frame	Catalog No.	Amps 460 V <sup>①</sup>		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		Volt Code	"C" Dim.	Conn. Diag. No.
					Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE			
1	0.75	1740	145T	EFM3116T	1.4	10.8	3.0	83.3	85.6	85.5	57	70	78	6205	6203	E	11.12	CD0005
1 1/2	1.1	1740	145T	EFM3154T	2.1	17.5	4.5	85.4	87.1	86.5	56	69	77	6205	6203	E	12.12	CD0005
2	1.5	1725	145T	EFM3157T	2.7	19.6	6.0	87.9	88.3	86.5	64	76	82	6205	6203	E	13.00	CD0005
3	2.2	1760	182T	EFM3211T	4.1	32	9.0	89.1	90.0	89.5	58	71	77	6206	6205	E	15.00	CD0005
5	3.7	3500	182T	EFM3212T	5.6	55	7.5	90.5	90.8	90.2	83	90	93	6206	6205	E	15.00	CD0005
7 1/2	5.6	1760	213T	EFM3311T	9.3	61	22.5	89.7	90.8	91.0	69	79	79	6307	6206	E1	16.32	CD0005
10	7.5	1760	215T	EFM3313T	12.9	96	29.6	90.8	91.8	91.7	61	72	80	6307	6206	E1	17.45	CD0005
15	11.2	1765	254T	EFM2513T	17.7	118	44.6	93.3	93.5	93.0	70	81	86	6309	6208	E1	21.69	CD0180
20	14.9	1765	256T	EFM2515T	23.5	160.8	59.4	92.5	93.2	93.0	71	81	86	6309	6208	E1	21.69	CD0180
25	18.7	1770	284T	EFM2531T	30	190.3	74.1	93.4	94.2	94.1	69	79	83	6311	6309	E1	23.81	CD0005
30	22.4	1770	286T	EFM2535T	35	223.6	88.9	93.6	94.2	94.1	72	82	85	6311	6309	E1	25.06	CD0005
40	30	1775	324T	EFM2539T	46	313	118	94.2	94.8	94.5	72	82	86	6312	6311	E1	26.69	CD0180
50	37	1775	326T	EFM2543T	57	378	148	94.5	94.9	94.5	75	84	87	6312	6311	E1	27.69	CD0180
60	45	1775	364T	EFM2547T	68	470	177	94.9	95.3	95.0	77	85	87	6313	6311	E1	30.69	CD0180

**NOTE:** E1=230/460 volts usable at 208, F=230/460 volts.  
<sup>①</sup> Amps at 460V - double for 230V. See page 43 for Layout drawing. See pages 52-53 for Connection Diagrams.

**Performance Data: ODP - Open Drip Proof, Rigid Base  
575 Volts, Three Phase, 1 through 60 Hp**

Hp	kW	RPM	Frame	Catalog No.	Amps		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		"C" Dim.	Conn. Diag. No.
					Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE		
1	0.75	1740	143T	EM3116T-5	1.1	8.6	3.0	83.3	85.6	85.5	57	70	78	6205	6203	11.12	CD0006
1 1/2	1.1	1740	145T	EM3154T-5	1.7	14	4.5	85.4	87.1	86.5	56	69	77	6205	6203	12.12	CD0006
2	1.5	1725	145T	EM3157T-5	2.1	15	6.0	86.5	86.8	86.5	66	77	82	6205	6203	13.00	CD0006
3	2.2	1760	182T	EM3211T-5	3.1	25.6	9.0	89.1	90.0	89.5	58	71	77	6206	6205	15.00	CD0006
5	3.7	1750	184T	EM3218T-5	5.2	40	15	91.3	91.6	89.5	60	73	80	6206	6205	15.00	CD0006
7 1/2	5.6	1760	213T	EM3311T-5	8.0	43.6	22.5	89.6	90.0	91.0	61	73	79	6307	6206	16.32	CD0006
10	7.5	1760	215T	EM3313T-5	10.2	71.7	30	91.0	92.1	91.7	62	75	79	6307	6206	18.20	CD0006
15	11.2	1765	254T	EM2513T-5	14.1	94	44.6	93.3	93.5	93.0	65	77	86	6309	6208	21.69	CD0006
20	14.9	1765	256T	EM2515T-5	18.9	130	59.4	92.5	93.2	93.0	65	82	85	6309	6208	21.69	CD0006
25	18.7	1770	284T	EM2531T-5	24.2	155	74	93.4	94.2	94.1	62	73	82	6311	6309	23.81	CD0006
30	22.4	1770	286T	EM2535T-5	28	179	88.9	93.6	94.2	94.1	72	82	85	6311	6309	25.06	CD0006
40	30	1775	324T	EM2539T-5	37.4	250	118	94.2	94.8	94.5	72	82	85	6312	6311	26.69	CD0006
50	37	1775	326T	EM2543T-5	46	305	148	93.5	94.4	94.5	69	79	87	6312	6311	27.69	CD0006
60	45	1775	364T	EM2547T-5	56	376	177	94.9	95.3	95.0	77	85	87	6313	6311	30.69	CD0006

**NOTE:** See page 43 for Layout drawing. See page 52 for Connection Diagrams.  
 Efficiencies shown are nominal. Data subject to change without notice. Contact Baldor for certified data.

## Explosion-Proof Super-E® Premium Efficient Motors

Baldor explosion-proof motors are designed for a wide variety of applications where hazardous fumes or dust may pose a potential hazard. In applications where explosion-proof motors are operated continuously, the Baldor Explosion-Proof Super-E® premium efficient motor is a better choice than a standard efficiency explosion-proof motor.



Available from stock in 1 through 60 hp (larger sizes as customs in ten working days), Baldor explosion-proof motors feature cast-iron frames and endplates on NEMA 182T frame sizes and larger. NEMA 215T and smaller frames feature a rugged industrial rolled steel band construction with external through-bolts. Mounted conduit boxes are UL and CSA approved for Class I – Group C & D, or Class II – Groups F and G. Motors are covered with a chemical resistant, two-part epoxy paint.

Hp	kW	RPM	Frame	Catalog No.	Amps 460 V <sup>①</sup>		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		Volt Code	"C" Dim.	Conn. Diag. No.
					Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE			
1	0.75	1750	143T	EM7014T ②	1.4	14	3.0	83.8	86.2	86.5	58	72	78	6205	6203	U	15.23	CD0005
1	0.75	1750	143T	EM7114T-C ③	1.4	14	3.0	83.8	86.2	86.5	58	72	78	6205	6203	E	16.28	CD0005
1 1/2	1.1	1740	145T	EM7034T ②	2.0	15.6	4.5	86.6	87.4	86.5	65	76	82	6205	6203	U	16.10	CD0005
1 1/2	1.1	1740	145T	EM7134T-C ③	2.0	16.8	4.5	86.4	87.6	86.5	61	73	80	6205	6203	F	16.28	CD0005
2	1.5	1740	145T	EM7037T ②	2.7	19.6	6.0	87.9	88.3	86.5	64	76	82	6205	6203	E	16.10	CD0005
2	1.5	1740	145T	EM7137T-C ③	2.7	20.8	6.0	87.3	88.2	86.5	65	77	82	6205	6203	E	16.28	CD0005
3	2.2	1760	182T	EM7142T-C ③	4.0	32	9.0	89.1	90.0	88.5	58	71	80	6206	6205	U	17.56	CD0005
5	3.7	1750	184T	EM7144T-C ③	6.5	54	15	89.7	90.7	88.5	62	74	80	6206	6205	U	17.56	CD0005
7 1/2	5.6	1770	213T	EM7147T-C ③	9.8	67	22.2	90.7	91.9	91.7	56	68	76	6307	6206	U	19.91	CD0005
10	7.5	1760	215T	EM7170T ②	12.5	91	30	91.0	91.9	91.7	67	78	83	6307	6206	F	19.90	CD0005
10	7.5	1760	215T	EM7170T-C ③	12.5	91	30	91.0	91.9	91.0	67	78	83	6307	6206	U	19.91	CD0005
15	11.2	1765	254T	EM7054T ②	18	125	45	92.1	93.0	92.4	71	81	84	6309	6208	U	25.50	CD0005
15	11.2	1765	254T	EM7054T-C ③	18	125	45	92.1	93.0	92.4	71	81	84	6309	6208	U	25.50	CD0005
20	14.9	1765	256T	EM7056T ②	24	171	60	92.9	93.5	93.0	67	79	84	6309	6208	U	25.50	CD0180
20	14.9	1765	256T	EM7056T-C ③	24	171	60	92.9	93.5	93.0	67	79	84	6309	6208	U	25.50	CD0180
25	18.7	1780	284T	EM7058T ②	30.5	188	74	93.4	93.9	93.6	69	78	82	6311	6309	U	28.61	CD0005
25	18.7	1780	284T	EM7058T-C ③	30.5	188	74	93.4	93.9	93.6	69	78	82	6311	6309	U	28.61	CD0005
30	22.4	1780	286T	EM7060T ②	36	214	90	93.8	94.4	94.1	69	79	84	6311	6309	U	28.61	CD0005
30	22.4	1780	286T	EM7060T-C ③	36	214	90	93.8	94.4	94.1	69	79	84	6311	6309	U	28.61	CD0005
40	30	1775	324T	EM7062T ②	46	320	118	93.9	94.6	94.5	73	81	86	6312	6311	U	32.00	CD0180
40	30	1775	324T	EM7062T-C ③	46	320	118	93.9	94.6	94.5	73	81	86	6312	6311	U	32.12	CD0180
50	37	1775	326T	EM7064T ②	57	392	149	94.4	94.9	94.5	73	82	87	6312	6311	U	32.00	CD0180
50	37	1775	326T	EM7064T-C ③	57	392	149	94.4	94.9	94.5	73	82	87	6312	6311	U	32.12	CD0180
60	45	1780	364T	EM7066T ②	69	447	177	94.7	95.2	95.4	74	82	86	6313	6312	U	33.25	CD0180
60	45	1780	364T	EM7066T-C ③	69	447	177	94.7	95.2	94.5	74	82	86	6313	6312	U	33.25	CD0180

**NOTE:** E=208-230/460 volts; F=230/460 volts; U=190/380//230/460 volts, 50//60 Hz.

Shaded ratings are cast iron frames.

① Amps at 460V - double for 230V.

② Class I Group C and D, Class II Group F and G, T4.

③ Class I Group D, Class II Group F and G, T3C.

See page 44 for Layout drawing. See pages 52-53 for Connection Diagrams.

Efficiencies shown are nominal. Data subject to change without notice. Contact Baldor for certified data.

**These explosion proof motors are not suitable for use with adjustable speed drives; inverter duty explosion-proof motors must be used.**

## Super-E® Premium Efficient Close Coupled Pump Motors

Close Coupled Pump TEFC premium efficient motors are designed to meet a wide variety of applications for circulating and transferring fluids. Besides the JM shaft configuration available from stock, JP and WC shaft configurations are available as custom motors, as are ODP, Severe Duty and Explosion-Proof versions. Over-sized ball bearings with locked drive end construction minimize endplay.



Available from stock in 1 through 50 hp (customs in ten working days), NEMA frames 143JM through 324JM.

### Performance Data: TEFC - Totally Enclosed Fan Cooled, Rigid Base 230/460 Volts, Three Phase, 1 through 50 Hp

Hp	kW	RPM	Frame	Catalog No.	Amps 460 V <sup>①</sup>		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		Volt Code	"C" Dim.	Conn. Diag. No.
					Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE			
1	0.75	1750	143JM	EJMM3546T	1.4	14	3.0	83.8	86.2	86.5	58	72	78	6206	6203	E	15.43	CD0005
1 1/2	1.1	3450	143JM	EJMM3550T	2.0	20.1	2.3	81.3	85.5	85.5	68	78	83	6206	6203	E	15.43	CD0005
1 1/2	1.1	1740	145JM	EJMM3554T	2.0	16.8	4.5	86.4	87.6	86.5	61	73	80	6206	6203	E1	15.43	CD0005
2	1.5	3450	145JM	EJMM3555T	2.5	30	3.0	83.8	86.2	86.5	70	80	85	6206	6203	E	16.31	CD0005
2	1.5	1725	145JM	EJMM3558T	2.7	19.6	6.0	87.9	88.3	86.5	64	76	82	6206	6203	E	16.31	CD0005
3	2.2	3450	145JM	EJMM3559T	3.5	39.2	4.5	87.7	88.3	87.5	51	88	92	6207	6203	E	17.68	CD0005
3	2.2	3450	182JM	EJMM3610T	3.5	39.2	4.6	87.7	88.3	87.5	51	88	92	6207	6203	E	18.19	CD0005
3	2.2	1760	182JM	EJMM3611T	4.1	32	9.0	89.1	90.0	89.5	58	71	77	6207	6205	E	18.06	CD0005
5	3.7	3500	184JM	EJMM3613T	5.6	62.5	7.5	89.0	89.9	89.5	85	92	95	6207	6205	E	18.06	CD0005
5	3.7	1750	184JM	EJMM3615T	6.5	53.7	15	89.7	90.7	90.2	62	74	80	6309	6205	E1	19.56	CD0005
7 1/2	5.6	3525	213JM	EJMM3709T	8.9	75	11.2	88.0	89.8	91.0	75	84	87	6309	6206	E1	19.81	CD0005
7 1/2	5.6	1770	213JM	EJMM3710T	10.2	72	22.2	90.5	91.8	91.7	56	68	76	6309	6206	E1	20.94	CD0005
10	7.5	3500	215JM	EJMM3711T	11.2	120	15	92.7	92.9	91.7	82	89	92	6309	6206	E1	20.94	CD0005
10	7.5	1760	215JM	EJMM3714T	12.6	83.5	30	91.7	92.4	91.7	62	75	81	6309	6206	E	21.69	CD0005
15	11.2	3525	254JM	EJMM2394T	17.2	128	22.2	90.8	91.9	91.7	78	86	88	6309	6208	E1	25.16	CD0180
15	11.2	1765	254JM	EJMM2333T	18.5	123	44.6	91.9	92.6	92.4	66	77	82	6309	6208	E1	25.16	CD0005
20	14.9	3520	256JM	EJMM4106T	22.5	166	29.8	92.5	93.0	92.4	79	86	90	6309	6208	E1	25.16	CD0005
20	14.9	1765	256JM	EJMM2334T	24	175	59	92.8	93.1	93.0	69	80	84	6309	6208	E1	25.16	CD0005
25	18.7	3530	284JM	EJMM4107T	28	196	37.2	92.4	93.2	93.0	82	89	91	6312	6309	E1	28.64	CD0180
25	18.7	1770	284JM	EJMM4103T	30	188	74.2	92.4	93.6	93.6	72	81	84	6312	6309	E1	28.64	CD0005
30	22.4	3530	286JM	EJMM4108T	33	237	44.6	93.0	93.5	93.0	82	88	90	6312	6309	E1	28.64	CD0180
30	22.4	1770	286JM	EJMM4104T	36	246	89	93.8	94.4	94.1	66	75	83	6312	6309	E1	28.64	CD0005
40	30	3540	324JM	EJMM4109T	44	315	59.3	93.0	93.7	93.6	83	88	90	6312	6311	E1	30.53	CD0005
40	30	1775	324JM	EJMM4110T	46	320	118	93.9	94.6	94.5	73	81	86	6312	6311	E1	30.53	CD0180
50	37	3540	326JM	EJMM4114T	54	422	74	93.8	94.4	94.1	85	90	92	6312	6311	E1	30.53	CD0005
50	37	1775	326JM	EJMM4115T	57	392	149	94.4	94.9	94.5	73	82	87	6312	6311	E1	30.53	CD0180
<b>Totally Enclosed Fan Cooled C-Face less base</b>																		
1	0.75	1750	143JM	VEJMM3546T	1.4	14	3.0	83.8	86.2	86.5	58	72	78	6206	6203	E	15.43	CD0005
1 1/2	1.1	1740	145JM	VEJMM3554T	2.1	20	4.5	86.4	87.7	87.5	57	71	78	6206	6203	E	15.43	CD0005
2	1.5	1750	145JM	VEJMM3558T	2.5	22	6.0	87.6	88.0	86.5	64	77	83	6206	6203	E1	18.31	CD0005
3	2.2	1760	182JM	VEJMM3611T	4.1	32	9.0	89.1	90.0	89.5	58	71	77	6207	6205	E	18.05	CD0005
5	3.7	1750	184JM	VEJMM3615T	6.5	48	15	89.8	90.5	90.2	61	73	80	6207	6205	E	19.70	CD0005
7 1/2	5.6	1760	213JM	VEJMM3710T	9.8	64	22.4	89.7	90.8	91.0	69	79	80	6309	6206	E1	19.76	CD0005
10	7.5	1760	215JM	VEJMM3714T	12.6	83.5	30	91.7	92.4	91.7	62	75	81	6309	6206	E1	21.63	CD0005

**NOTE:** Volt Code: E=208-230/460 volts; E1=230/460 volts, usable at 208 volts; F=230/460 volts.

Shaded ratings are cast iron frames.

① Amps at 460V - double for 230V.

See page 45 for Layout drawing. See pages 52-53 for Connection Diagrams.

Efficiencies shown are nominal. Data subject to change without notice. Contact Baldor for certified data.

## Super-E® Premium Efficient Close Coupled Pump Motors

Close Coupled Pump ODP premium efficient motors are designed to meet a wide variety of applications for circulating and transferring fluids. Besides the JM shaft configuration available from stock, JP and WC shaft configurations are available as custom motors, as are TEFC, Severe Duty and Explosion-Proof versions. Over-sized ball bearings with locked drive end construction minimize endplay. ODP motors are furnished with rodent screens on both ends.



Available from stock in 1 through 50 hp (customs in ten working days), NEMA frames 143JM through 324JM.

### Performance Data: ODP - Open Drip Proof, Rigid Base 230/460 Volts, Three Phase, 1 through 50 Hp

Hp	kW	RPM	Frame	Catalog No.	Amps 460 V <sup>①</sup>		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		Volt Code	"C" Dim.	Conn. Diag. No.
					Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE			
1	0.75	1740	143JM	EJMM3116T	1.4	10.8	3.0	83.3	85.6	85.5	57	70	78	6206	6203	E	13.75	CD0005
1 1/2	1.1	1740	145JM	EJMM3154T	2.1	17.5	4.5	85.4	87.1	86.5	56	69	77	6206	6203	E	14.25	CD0005
2	1.5	3450	145JM	EJMM3155T	2.5	22	3.0	87.8	88.1	86.5	78	86	90	6206	6203	E	13.75	CD0005
2	1.5	1725	145JM	EJMM3157T	2.7	19.6	6.0	87.9	88.3	86.5	64	76	82	6206	6203	E	15.13	CD0005
3	2.2	3450	145JM	EJMM3158T	3.7	29	4.5	87.1	88.5	87.5	76	85	89	6206	6203	E1	15.13	CD0005
3	2.2	1760	182JM	EJMM3211T	4.1	32	9.0	89.1	90.0	89.5	58	71	77	6207	6205	E	16.50	CD0005
5	3.7	3500	182JM	EJMM3212T	5.6	55	7.5	90.5	90.8	90.2	83	90	93	6207	6205	E	16.50	CD0005
5	3.7	1750	184JM	EJMM3218T	6.5	51	15	91.3	91.6	89.5	60	73	80	6207	6205	E1	18.00	CD0005
7 1/2	5.6	3500	184JM	EJMM3219T	8.4	87	11.2	91.3	91.6	90.2	85	90	93	6207	6205	E	18.00	CD0005
7 1/2	5.6	1760	213JM	EJMM3311T	10	61	22.5	89.6	91.0	91.0	61	73	79	6309	6206	E1	18.19	CD0005
10	7.5	3500	213JM	EJMM3312T	11.5	98	15	90.9	92.0	91.7	81	87	90	6309	6206	E1	19.31	CD0005
10	7.5	1760	215JM	EJMM3313T	12.9	96	29.6	90.8	91.8	91.7	61	72	80	6309	6206	E1	19.31	CD0005
15	11.2	3525	215JM	EJMM3314T	17	143	22.5	91.9	92.3	91.7	80	87	92	6309	6206	E1	19.31	CD0005
15	11.2	1765	254JM	EJMM2513T	17.7	118	44.6	93.3	93.5	93.0	70	81	86	6309	6208	E1	23.19	CD0180
20	14.9	3510	254JM	EJMM2514T	22.5	145	29.9	93.5	93.3	92.4	79	87	90	6309	6208	E1	23.19	CD0180
25	18.7	3525	256JM	EJMM2516T	28	209	37.3	93.0	93.3	93.0	83	89	91	6309	6208	E1	23.19	CD0005
30	22.4	3530	284JM	EJMM2534T	34	234	44.8	92.6	93.5	93.6	80	87	89	6312	6309	F	24.69	CD0005
40	30	3540	286JM	EJMM2538T	45	355	59.8	94.4	94.7	94.1	79	85	88	6312	6309	F	25.94	CD0180
50	37	3540	324JM	EJMM2542T	55	408	74.2	94.7	94.8	94.1	82	87	90	6312	6309	F	27.44	CD0180

#### Open Drip Proof C-Face Less Base

1	0.75	1750	143JM	VEJMM3116T	1.4	10.8	3.0	83.3	85.6	85.5	57	70	78	6206	6203	E	15.43	CD0005
1 1/2	1.1	1740	145JM	VEJMM3154T	2.0	15.6	4.5	86.6	87.4	86.5	65	76	82	6206	6203	E	16.31	CD0005
2	1.5	1725	145JM	VEJMM3157T	2.7	19.6	6.0	87.9	88.3	86.5	64	76	82	6206	6203	E	16.31	CD0005
3	2.2	1760	182JM	VEJMM3211T	4.1	32	9.0	88.1	90.0	89.5	58	71	77	6207	6205	E	18.06	CD0005
5	3.7	1750	184JM	VEJMM3218T	6.5	51	15	91.3	91.6	89.5	60	73	80	6207	6205	E1	18.06	CD0005
7 1/2	5.6	1770	213JM	VEJMM3311T	10.2	72	22.2	90.5	91.8	91.0	56	68	76	6309	6206	E1	20.91	CD0005
10	7.5	1760	215JM	VEJMM3313T	12.5	99	30	90.9	91.5	91.7	65	76	83	6309	6206	E	21.66	CD0005

**NOTE:** Volt Code: E=208-230, E1=230/460 volts, usable at 208 volts.

① Amps at 460V - double for 230V.

See page 45 for Layout drawing. See pages 52-53 for Connection Diagrams.

### Performance Data: ODP - Open Drip Proof, Rigid Base 575 Volts, Three Phase, 10 through 50 Hp

Hp	kW	RPM	Frame	Catalog No.	Amps		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		"C" Dim.	Conn. Diag. No.
					Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE		
10	7.5	3500	213JM	EJMM3312T-5	9.2	78.4	15	90.9	92.0	91.7	81	87	90	6309	6206	19.31	CD0006
15	11.2	3500	215JM	EJMM3314T-5	14	114	22.5	93.3	93.0	90.2	85	90	90	6309	6206	19.31	CD0006
20	14.9	3510	254JM	EJMM2514T-5	18.1	115	29.9	93.5	93.3	92.4	73	82	90	6309	6208	23.19	CD0006
25	18.7	3520	256JM	EJMM2516T-5	22.5	162	37.3	93.0	93.4	93.0	81	88	91	6309	6208	23.19	CD0006
30	22.4	3540	284JM	EJMM2534T-5	27	181	44.8	92.6	93.5	93.6	80	87	89	6312	6309	24.69	CD0006
40	30	3540	286JM	EJMM2538T-5	36	276	59.8	94.4	94.7	94.1	79	85	88	6312	6309	25.94	CD0006
50	37	3540	324JM	EJMM2542T-5	44	331	74.2	94.7	94.8	94.1	82	87	90	6312	6311	25.94	CD0006

**NOTE:** Volt Code: H=575 volts. See page 45 for Layout drawing. See page 52-53 for Connection Diagrams.

Efficiencies shown are nominal. Data subject to change without notice. Contact Baldor for certified data.





## Super-E® Premium Efficient Washdown Motors

For multi-shift food and pharmaceutical processing applications, Baldor Super-E Washdown motors deliver both reliability and energy cost savings. These NEMA Premium® Inverter Ready motors share the rugged mechanical characteristics of Baldor's Standard Washdown Motors.



### Performance Data: TEFC - Totally Enclosed Fan Cooled, TENV - Totally Enclosed Non-Ventilated, 230/460 & 575 Volts, Three Phase, 1 through 20 Hp

Hp	kW	RPM	Frame	Catalog No.	Amps 460 V <sup>①</sup>		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		Volt Code	"C" Dim.	Conn. Diag. No.
					Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE			
<b>Rigid Base</b>																		
1	0.75	1740	143T	EWDM3546T ■	1.4	12.2	3.0	86.9	87.8	86.5	57	70	78	6205	6203	E	12.12	CD0005
1.5	1.1	1740	145T	EWDM3554T ■	2.0	17.6	4.5	87.7	88.3	86.5	61	74	81	6205	6203	E1	13.00	CD0005
2	1.5	1725	145T	EWDM3558T ▲	2.7	19.6	6.0	87.9	88.3	86.5	64	76	82	6205	6203	E	14.18	CD0005
3	2.2	1760	182T	EWDM3611T ▲	4.1	32	9.0	89.1	90.0	89.5	58	71	77	6206	6205	E	16.54	CD0005
5	3.7	1750	184T	EWDM3615T ▲	6.5	53.7	15	89.7	90.7	90.2	62	74	80	6206	6205	E1	18.04	CD0005
7.5	5.6	1770	213T	EWDM3710T ▲	10.2	72	22.2	90.5	91.8	91.7	56	68	76	6307	6206	E1	19.04	CD0005
10	7.5	1760	215T	EWDM3714T ▲	12.6	83.5	30	91.7	92.4	91.7	62	75	81	6307	6206	E1	19.79	CD0005
<b>C-Face with Base</b>																		
1	0.75	3450	56C	CEWDM3545 ▲	1.4	12.1	1.5	80.5	83.6	84.5	65	77	82	6205	6203	F	12.24	CD0005
1	0.75	1750	56C	CEWDM3546 ■	1.4	14.1	3.0	87.1	88.4	87.5	60	73	80	6205	6203	F	12.94	CD0005
1	0.75	1750	56C	CEWDM3546-5 ■	1.1	11.3	3.0	87.1	88.4	87.5	60	73	80	6205	6203	H	12.94	CD0006
1	0.75	1740	143TC	CEWDM3546T ■	1.4	12.2	3.0	86.9	87.8	86.5	57	70	78	6205	6203	E	12.13	CD0005
1	0.75	1150	56C	CEWDM3556 ▲	1.8	9.9	4.5	80.1	82.9	82.5	42	54	63	6205	6203	E	13.24	CD0005
1.5	1.1	3450	56C	CEWDM3550 ▲	2.0	20.1	2.3	81.3	84.3	85.5	68	78	83	6205	6203	E	13.24	CD0005
1.5	1.1	1740	145TC	CEWDM3554T ■	2.0	17.6	4.5	87.7	88.3	86.5	61	74	81	6205	6203	E1	13.00	CD0005
2	1.5	3450	56HCY	CEWDM3555 ▲	2.5	30	3.0	83.8	86.2	86.5	70	80	85	6205	6203	E	14.12	CD0005
2	1.5	3450	145TC	CEWDM3555T ▲	2.5	30	3.0	83.8	86.2	86.5	70	80	85	6205	6203	E	14.17	CD0005
2	1.5	1725	145TC	CEWDM3558T ▲	2.7	19.6	6.0	87.9	88.3	86.5	64	76	82	6205	6203	E	14.17	CD0005
2	1.5	1725	145TC	CEWDM3558T5 ▲	2.2	15.7	6.0	88.1	88.1	86.5	66	77	82	6205	6203	H	14.17	CD0006
3	2.2	3475	145TC	CEWDM3559T ▲	3.6	37.9	4.5	85.6	86.8	86.5	80	88	91	6205	6203	F	15.55	CD0005
3	2.2	1760	182TC	CEWDM3611T ▲	4.1	32	9.0	89.1	90.0	89.5	58	71	77	6206	6205	E	16.54	CD0005
5	3.7	3500	184TC	CEWDM3613T ▲	5.6	55	7.5	90.5	90.8	89.5	83	90	93	6206	6205	E	16.54	CD0005
5	3.7	1750	184TC	CEWDM3615T ▲	6.5	53.7	15	89.7	90.7	90.2	62	74	80	6206	6205	E1	18.04	CD0005
5	3.7	1750	184TC	CEWDM3615T5 ▲	5.2	43	15	89.7	90.7	90.2	62	74	80	6206	6205	H	18.04	CD0006
7.5	5.6	3500	213TC	CEWDM3709T ▲	8.6	86	11.2	90.0	91.2	91.0	81	88	90	6307	6206	E	19.78	CD0005
7.5	5.6	1770	213TC	CEWDM3710T ▲	10.2	72	22.2	90.5	91.8	91.7	56	68	76	6307	6206	E1	19.78	CD0005
10	7.5	3500	215TC	CEWDM3711T ▲	11.2	120	15	92.7	92.9	91.7	82	89	92	6307	6206	E1	19.78	CD0005
10	7.5	1760	215TC	CEWDM3714T ▲	12.6	83.5	30	91.7	92.4	91.7	62	75	81	6307	6206	E1	20.53	CD0005
15	11.1	3500	254TC	CEWDM23994T ▲	16.6	161	22.2	92.9	92.8	91.0	81	87	90	6309	6206	F	21.94	CD0005
15	11.1	3500	215TC	CEWDM3713T ▲	16.6	161	22.2	92.9	92.8	91.0	81	87	90	6307	6206	F	21.26	CD0005
15	11.1	1765	254TC	CEWDM23933T ▲	18	125	45	92.1	93.0	92.4	71	81	84	6309	6208	F	23.57	CD0005
20	15	3520	256TC	CEWDM41906T ▲	22.5	166	29.8	92.5	93.0	92.4	79	86	90	6309	6208	F	23.57	CD0005
<b>C-Face less base</b>																		
1	0.75	1750	56C	VEWDM3546 ■	1.4	14.1	3.0	87.1	88.4	87.5	60	73	80	6205	6203	F	12.94	CD0005
1	0.75	1750	143TC	VEWDM3546T ■	1.4	14.1	3.0	87.1	88.4	87.5	60	73	80	6205	6203	F	13.00	CD0005
1.5	1.1	1740	56C	VEWDM3554 ■	2.0	17.6	4.5	87.7	88.3	86.5	61	74	81	6205	6203	E1	12.94	CD0005
1.5	1.1	1740	145TC	VEWDM3554T ■	2.0	17.6	4.5	87.7	88.3	86.5	61	74	81	6205	6203	E1	13.00	CD0005
2	1.5	1725	56C	VEWDM3558 ▲	2.7	19.6	6.0	87.9	88.3	86.5	64	76	82	6205	6203	E	14.18	CD0005
2	1.5	1725	145TC	VEWDM3558T ▲	2.7	19.6	6.0	87.9	88.3	86.5	64	76	82	6205	6203	E	14.18	CD0005
3	2.2	1760	182TC	VEWDM3611T ▲	4.1	32	9.0	89.1	90.0	89.5	58	71	77	6206	6205	E	16.54	CD0005
5	3.7	1750	184TC	VEWDM3615T ▲	6.5	53.7	15	89.7	90.7	90.2	62	74	80	6206	6205	E1	18.05	CD0005
7.5	5.6	1770	213TC	VEWDM3710T ▲	10.2	72	22.2	90.5	91.8	91.7	56	68	76	6307	6206	E1	19.78	CD0005
10	7.5	1760	215TC	VEWDM3714T ▲	12.5	91	30	91.0	91.9	91.7	67	78	83	6307	6206	E	20.53	CD0005

**NOTE:** Volt Code: E1 = 230/460V, 60Hz, usable at 208V, F = 230/460 volts, 60 Hz., H = 575V ■ = TENV Enclosure - See page 46 for dimensions.  
<sup>①</sup> Amps at 460V - double for 230V. ▲ = TEFC Enclosure - See page 46 for dimensions.

See page 52 for Connection Diagrams.

Efficiencies shown are nominal. Data subject to change without notice. Contact Baldor for certified data.

## Super-E® All Stainless Premium Efficient Washdown Motors

In applications where additional protection is required against highly corrosive environments, Baldor's All Stainless Washdown Duty motors are the answer. Typical applications include outdoor installations, or applications where particularly corrosive agents are being processed or used for washdowns, as in pharmaceuticals. Features include 300 Series stainless steel on all external surfaces, encapsulated windings, and a labyrinth seal on both ends of the shaft extension to protect motor bearings by rotating and expelling contaminants.



### Performance Data: TEFC - Totally Enclosed Fan Cooled, TENV - Totally Enclosed Non-Ventilated, 230/460 Volts, Three Phase, 1 through 10 Hp

Hp	kW	RPM	Frame	Catalog No.	Amps 460 V <sup>①</sup>		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		Volt Code	"C" Dim.	Conn. Diag. No.
					Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE			
1	0.75	3450	56C	CESSWDM3545 ■	1.4	18.3	1.5	76.8	81.5	82.5	61	73	80	6205	6203	E1	12.09	CD0005
1	0.75	1740	56C	CESSWDM3546 ■	1.4	12.2	3	86.9	87.8	86.5	57	70	78	6205	6203	E	12.09	CD0005
1.5	1.12	3500	56C	CESSWDM3550 ■	1.8	20.6	2.22	87.5	89.5	85.5	78	88	90	6205	6203	F	14.24	CD0005
1.5	1.1	1740	145TC	CESSWDM3554T ▲	2.0	17.6	4.5	87.7	88.3	86.5	61	74	81	6205	6203	E1	14.30	CD0005
2	1.5	3500	145TC	CESSWDM3555T ▲	2.5	31	3	83.7	86.0	86.5	76	85	90	6205	6203	F	14.30	CD0005
2	1.5	1725	145TC	CESSWDM3558T ▲	2.7	19.6	6	87.9	88.3	86.5	64	76	82	6205	6203	E	14.30	CD0005
3	2.2	3470	145TC	CESSWDM3559T ▲	3.7	48.3	4.5	86.3	87.2	86.5	79	87	91	6205	6203	F	15.67	CD0005
3	2.2	1760	182TC	CESSWDM3611T ▲	4.0	32	9	89.0	90.0	89.5	63	74	80	6206	6205	F	16.82	CD0005
5	3.7	3500	184TC	CESSWDM3613T ▲	5.6	62.5	7.5	89.0	89.9	89.5	85	92	95	6206	6205	F	16.82	CD0005
5	3.7	1750	184TC	CESSWDM3615T ▲	6.4	54	15	90.3	90.9	90.2	62	74	81	6206	6205	E1	18.32	CD0005
7.5	5.6	3500	213TC	CESSWDM3709T ▲	8.3	87	11.5	90.9	92.1	91.0	79	90	93	6307	6206	F	19.03	CD0005
7.5	5.6	1770	213TC	CESSWDM3710T ▲	10.2	72	22.2	90.5	91.8	91.2	56	68	76	6307	6206	E1	20.16	CD0005
10	7.5	3500	215TC	CESSWDM3711T ▲	10.6	115	15	92.0	92.4	91.7	83	91	94	6307	6206	E	20.16	CD0005
10	7.5	1760	215TC	CESSWDM3714T ▲	12.6	83.5	30	91.7	92.4	91.7	62	75	81	6307	6206	E1	20.91	CD0005

**NOTE:** Volt Code: E1 = 230/460V, 60Hz, usable at 208V, F = 230/460 volts, 60 Hz.

<sup>①</sup> Amps at 460V - double for 230V.

See page 52 for Connection Diagrams.

Efficiencies shown are nominal. Data subject to change without notice. Contact Baldor for certified data.

■ = TENV Enclosure - See page 46 for dimensions.

▲ = TEFC Enclosure - See page 46 for dimensions.



## Super-E® Premium Efficient Brake Motors

Baldor Super-E brake motors meet or exceed NEMA Premium® efficiency. These brake motors have their spring-set brakes mounted opposite the drive end, allowing a NEMA-standard BA dimension. Also allows for easy conversion to C-face mounting. Brake coils are connected inside the conduit box allowing easy access for separate connection when used with an adjustable speed drive. Inverter Spike Resistant magnet wire.



### Performance Data: TEFC, Rigid Base, 230/460 volts, 1 through 30 HP

Hp	kW	RPM	Frame	Catalog No.	Amps 460 V <sup>①</sup>		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Volt Code	"C" Dim.	Conn. Diag. No.	Brake Rating
					Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load				
1	0.75	1750	56	EBM3546 †	1.4	14	3.0	83.8	86.2	86.5	58	72	78	E	17.80	CD0005	6
1	0.75	1750	143T	EBM3546T †	1.4	14	3.0	83.8	86.2	86.5	58	72	78	E	17.80	CD0005	6
1 1/2	1.1	1740	145T	EBM3554T †	2.0	16.8	4.5	86.4	87.6	86.5	61	73	80	E	17.86	CD0005	10
2	1.5	1725	145T	EBM3558T †	2.7	19.6	6.0	87.9	88.3	86.5	64	76	82	E	18.74	CD0005	10
3	2.2	1760	182T	EBM3611T †*	4.0	32	9.0	89.1	90.0	89.5	58	71	77	E	21.12	CD0005	15
5	3.7	1750	184T	EBM3615T †✓	6.5	53.7	15	89.7	90.7	90.2	62	74	80	E1	22.65	CD0005	25
7 1/2	5.6	1770	213T	EBM3710T †✓	10.2	72	22.2	90.5	91.8	91.7	56	68	76	E1	27.20	CD0005	35
10	7.5	1760	215T	EBM3714T †*	12.6	83.5	30	91.7	92.4	91.7	62	75	81	E1	28.44	CD0005	50
15	11.2	1765	254T	EBM2333T †*	18.5	123	44.6	91.9	92.6	92.4	66	77	82	E1	33.07	CD0005	75
20	14.9	1765	256T	EBM2334T †*	24	175	59	92.8	93.1	93.0	69	80	84	E1	33.57	CD0005	105
25	18.7	1770	284T	EBM4103T †*	30	188	74.2	92.4	93.6	93.6	72	81	84	E1	39.66	CD0005	105
30	22.4	1770	286T	EBM4104T †*	36	246	89	93.8	94.4	94.1	66	75	77	E1	42.84	CD0005	125

**NOTE:** E = 208-230/460 volts, E1 = 230/460V, 60Hz, usable at 208V.

Shaded ratings are cast iron frames.

① Amps at 460V - double for 230V.

Motors have NEMA standard BA dimensions. See page 51 for layout drawings. See page 52 for Connection Diagram.

† = Brake motors may be mounted for vertical mounting with brake above or below motor.

✓ = Brake motors may be mounted for vertical mounting with brake below motor.

†\* = Class "F" Insulated Motor with 1.15 Service Factor or higher that operates within Class "B" temperature limits at rated horsepower.

## Washdown Super-E Brake Motors

Baldor Super-E brake motors meet or exceed NEMA Premium® efficiency and are built to the standards of Baldor's white washdown duty motors. These brake motors have their spring-set brakes mounted opposite the drive end, allowing a NEMA-standard BA dimension. Brake coils are connected inside the conduit box allowing easy access for separate connection when used with an adjustable speed drive. Inverter Spike Resistant magnet wire.



### Performance Data: TENV & TEFC, Rigid Base, 230/460 volts, 1 through 10 HP

Hp	kW	RPM	Frame	Catalog No.	Amps 460 V <sup>①</sup>		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Volt Code	"C" Dim.	Conn. Diag. No.	Brake Rating
					Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load				
1/2	0.37	1750	56C	CEWDBM3538 ■	0.8	6.3	1.5	76.6	80.8	82.5	54	67	72	F	15.31	CD0005	3
3/4	0.56	1740	56C	CEWDBM3542 ■	1.1	17.3	2.3	80.5	83.4	82.5	55	67	75	F	15.31	CD0005	6
1	0.75	1740	56C	CEWDBM3546 ■	1.4	12.2	3.0	86.9	87.8	86.5	57	70	78	E	16.31	CD0005	6
1	0.75	1740	143TC	CEWDBM3546T ■	1.4	12.2	3.0	86.9	87.8	86.5	57	70	78	E	17.26	CD0005	10
1 1/2	1.1	1740	145TC	CEWDBM3554T ■	2.0	17.6	4.5	87.7	88.3	86.5	61	74	81	E1	18.14	CD0005	10
2	1.5	1725	145TC	CEWDBM3558T ▲	2.7	19.6	6.0	87.9	88.3	86.5	64	76	82	E	19.44	CD0005	10
3	2.2	1760	182TC	CEWDBM3611T ▲	4.1	32	9.0	89.1	90.0	89.5	58	71	77	E	21.80	CD0005	15
5	3.7	1750	184TC	CEWDBM3615T ▲	6.5	53.7	15	89.7	90.7	90.2	62	74	80	E1	23.30	CD0005	25

**NOTE:** Volt Code: E = 208-230/460 volts, E1 = 230/460V, 60Hz, usable at 208V,

■ = TENV Enclosure - See page 51 for dimensions.

F = 230/460 volts, 60 Hz.

▲ = TEFC Enclosure - See page 51 for dimensions.

① Amps at 460V - double for 230V. See page 52 for Connection Diagram.

Efficiencies shown are nominal. Data subject to change without notice. Contact Baldor for certified data.

## Automotive Approved Motors

For use in plants requiring Automotive Approved motors on pumps, compressors, conveyors, and machine tools, these motors meet the minimum efficiency requirements mandated by major US automobile manufacturers. Meets GM's minimum efficiency times power factor requirements, per GM 7EHQ, as well as the automotive industry's requirements for sound power levels. Available from stock in 1 through 100 hp, NEMA frames 183 through 445U. Feature all cast iron construction, re-greaseable double shield ball bearings, shaft slinger on both ends of the motor, stainless steel nameplates and epoxy paint. These motors are suitable for 65°C ambient; 1.00 Service Factor or 1.15 Service Factor at 40°C ambient.



### Performance Data: TEFC - Totally Enclosed Fan Cooled, Rigid Base 460 Volts, Three Phase, 1 through 100 Hp

Hp	kW	RPM	Frame	Catalog No.	Amps		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		"C" Dim.	Conn. Diag. No.
					Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE		
1	0.75	1750	182	AEM3683-4	1.5	13.9	2.95	84.0	86.6	84.0	53	67	75	6206	6205	13.18	CD0006
1	0.75	1140	184	AEM3684-4	1.7	10.5	4.6	80.8	82.5	80.5	52	63	71	6206	6205	14.74	CD0006
1 1/2	1.1	1750	184	AEM3686-4	2.2	19.4	4.48	82.6	84.9	85.0	58	71	77	6206	6205	14.74	CD0006
1 1/2	1.1	1140	184	AEM3687-4	2.5	18.4	6.7	81.6	83.9	84.0	48	60	68	6206	6205	14.74	CD0006
2	1.5	1750	184	AEM3689-4	2.9	25.6	6.0	86.2	88.4	86.0	52	65	73	6206	6205	14.74	CD0006
2	1.5	1140	213	AEM3782-4	3.2	19.9	9.0	81.1	83.7	83.5	54	65	71	6307	6206	18.07	CD0006
3	2.2	1760	213	AEM3783-4	3.9	24.5	9.0	88.8	89.7	87.5	72	80	83	6307	6206	18.07	CD0006
3	2.2	1160	215	AEM3784-4	4.4	24.8	13.5	85.9	87.9	86.5	56	68	74	6307	6206	18.07	CD0006
5	3.7	1750	215	AEM3787-4	6.4	38.6	15	89.4	89.9	87.5	70	80	84	6307	6206	18.07	CD0006
5	3.7	1160	254U	AEM2275-4	7.1	42.4	22.6	88.8	90.0	88.5	54	67	74	6309	6207	20.81	CD0006
7 1/2	5.6	1760	254U	AEM2237-4	9.2	55.3	22.5	87.3	89.1	89.5	73	82	84	6309	6208	22.91	CD0006
7 1/2	5.6	1170	256U	AEM2276-4	10.6	62	33.1	89.4	90.7	90.2	57	67	74	6309	6208	22.91	CD0006
10	7.5	1760	256U	AEM2238-4	12	77	29.8	88.6	90.0	90.2	75	83	87	6309	6208	22.91	CD0006
10	7.5	1160	284U	AEM2332-4	13	77	45	87.5	89.0	88.5	67	76	80	6311	6309	27.81	CD0006
15	11.2	1765	284U	AEM2333-4	18	125	45	92.1	93.0	92.4	71	81	84	6311	6309	26.22	CD0006
15	11.2	1160	324U	AEM4100-4	19	101	69	90.2	90.6	89.5	73	80	83	6312	6311	30.66	CD0006
20	14.9	1760	286U	AEM2334-4	24.5	150	59.2	88.6	90.5	90.2	74	82	86	6311	6309	27.81	CD0006
20	14.9	1160	326U	AEM4102-4	25	145	90.5	90.7	91.1	89.0	73	81	83	6312	6311	30.66	CD0006
25	18.7	1775	324U	AEM4103-4	29.5	172	74	90.1	92.0	92.4	77	84	87	6312	6311	30.66	CD0006
25	18.7	1180	364U	AEM4111-4	30	208	112	92.4	92.9	91.7	75	83	83	6313	6312	33.35	CD0006
30	22.4	1775	326U	AEM4104-4	35	218	89	92.7	93.7	92.4	77	84	86	6312	6311	30.66	CD0006
30	22.4	1180	365U	AEM4117-4	36	215	135	93.0	93.1	91.7	77	84	83	6313	6312	33.35	CD0006
40	30	1780	364U	AEM4307-4	46	290	118	91.3	93.0	93.6	71	81	87	6313	6312	33.35	CD0006
40	30	1180	404U	AEM4308-4	46	325	177	92.0	93.2	92.5	76	84	87	6316	6313	36.76	CD0006
50	37	1780	365U	AEM4311-4	58	364	147	92.9	93.9	93.6	73	81	87	6313	6312	33.35	CD0006
50	37	1180	404U	AEM4312-4	57	356	222	92.4	93.2	93.0	80	86	88	6316	6313	37.91	CD0006
60	45	1780	405U	AEM4314-4	68	439	177	93.2	93.8	92.5	77	87	89	6316	6313	36.76	CD0006
60	45	1180	444U	AEM4403-4	71	497	265	91.8	93.0	93.0	72	80	85	6319	6314	44.37	CD0006
75	56	1780	444U	AEM4316-4	85	560	221	92.7	94.0	94.5	78	85	87	6319	6314	44.37	CD0006
75	56	1180	445U	AEM4404-4	88	598	332	93.2	94.0	94.1	74	82	85	6319	6314	44.37	CD0006
100	74.6	1780	445U	AEM4400-4	116	780	295	93.0	94.1	93.0	76	83	86	6319	6314	44.37	CD0006

**NOTE:** See page 48 for Layout drawing. See pages 52 for Connection Diagrams. Efficiencies shown are nominal and comply with GM efficiency levels, not NEMA Premium®. Data subject to change without notice. Contact Baldor for certified data.

Shaded ratings are cast iron frames.

## Super-E® Single Phase Premium Efficient Motors

In general purpose applications where efficiencies may be gained from limited available current, Baldor offers Single Phase Super-E motors. With less current required to power the Super-E motor, customers may be able to operate additional equipment from the same line.



### Performance Data: TEFC - Totally Enclosed Fan Cooled, Rigid Base 115/230 Volts, Single Phase, 1/4 through 5 Hp

Hp	kW	RPM	Frame	Catalog No.	Amps 230 V <sup>①</sup>		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		Volt Code	"C" Dim.	Conn. Diag. No.
					Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE			
1/4	0.19	1745	48	EL3403	1.25	9.1	0.75	62.4	69.5	74.0	77	83	89	6203	6203	B	10.48	CD0055
1/3	0.25	1740	56	EL3501	1.6	11	1.0	68.6	75.5	77.0	80	83	88	6203	6203	B	11.97	CD0055
1/2	0.37	1745	56	EL3504	2.3	18.1	1.5	72.4	76.5	78.5	79	87	89	6203	6203	B	11.97	CD0055
3/4	0.56	1755	56	EL3507	3.15	30	2.25	79.4	83.6	82.5	80	87	90	6205	6203	B	13.25	CD0055
1	0.75	1760	56H	EL3510	4.25	40	3.0	76.9	83.2	82.5	81	88	91	6205	6203	B	13.81	CD0055
1 1/2	1.1	1760	56H	EL3514	6.3	51	4.5	84.4	86.2	84.0	85	92	94	6205	6203	B	15.18	CD0055
1 1/2	1.1	1760	145T	EL3514T	6.3	51	4.5	84.4	86.2	84.0	85	92	94	6205	6203	B	15.55	CD0055
2	1.5	1740	184T	EL3605T	8.8	62.4	6.1	82.1	84.0	82.5	82	87	90	6206	6205	B	16.56	CD0055
3	2.2	1755	184T	EL3609T	11.8	85	9.0	83.1	85.9	85.5	96	97	96	6206	6205	C	18.06	CD0017A02
5	3.7	1735	184T	EL3612T	19.1	127	15	83.6	86.8	86.5	96	97	97	6206	6205	C	18.06	CD0017A02

**NOTE:** Volt Code: B=115/230, C=230 Volts.

① Amps at 230V - double for 115V if 115/230V.

See page 4249-50 for Layout drawing. See pages 52-53 for Connection Diagrams.

### Performance Data: ODP - Open Drip Proof, Rigid Base 115/230 Volts, Single Phase, 1/4 through 5 HP

Hp	kW	RPM	Frame	Catalog No.	Amps 230 V <sup>①</sup>		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		Volt Code	"C" Dim.	Conn. Diag. No.
					Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE			
1/4	0.19	1745	48	EL1203	1.25	9.1	0.75	62.4	69.5	74.0	77	83	89	6203	6203	B	9.76	CD0055
1/3	0.25	1740	56	EL1301	1.6	11	1.0	68.6	75.5	77.0	74	82	88	6203	6203	B	10.13	CD0055
1/2	0.37	1745	56	EL1304	2.3	18.1	1.5	73.8	77.7	78.5	82	89	89	6203	6203	B	11.00	CD0055
3/4	0.56	1755	56	EL1307	3.25	67	2.25	80.0	83.5	84.0	75	85	90	6205	6203	B	12.06	CD0055
1	0.75	1755	56	EL1310	4.3	40.5	3.0	80.6	83.6	84.0	80	88	91	6205	6203	B	12.94	CD0055
1 1/2	1.1	1755	56H	EL1319	6.25	55	4.5	84.9	86.5	85.5	80	86	94	6205	6203	B	14.31	CD0055
1 1/2	1.1	1755	145T	EL1319T	6.25	55	4.5	84.9	86.5	85.5	80	86	94	6205	6203	B	13.00	CD0055
2	1.5	1740	182T	EL1405T	8.8	62.4	6.1	82.1	84.0	82.5	82	87	90	6206	6205	B	15.87	CD0055
3	2.2	1750	184T	EL1408T	11.2	70.2	9.0	84.9	88.0	85.5	98	98	98	6206	6205	C	16.50	CD0017A02
5	3.7	1735	184T	EL1410T	19.1	129	15	83.0	86.6	86.5	95	96	97	6206	6205	C	18.00	CD0017A02

**NOTE:** Volt Code: B=115/230, C=230 Volts.

① Amps at 230V - double for 115V if 115/230V

See page 4249-50 for Layout drawing. See pages 52-53 for Connection Diagrams.

Efficiencies shown are nominal. Data subject to change without notice. Contact Baldor for certified data.



## Inverter and Vector Controls for Even Greater Energy Efficiency

Whether you're looking for energy savings, better process control, or increased productivity, chances are Baldor has the right drive for your application. Inverter controls are used in variable or constant torque applications with Inverter Ready or Inverter Duty motors. Vector controls are ideal for applications where precise positioning, speed control and holding torque are required, or where overall system performance can be improved. Vector drives can provide full-rated torque at zero speed.

**Inverter Drive® and Vector Drive® Motors** - Baldor Inverter Drive and Vector Drive Motors exceed all requirements of NEMA MG-1 Parts 30 and 31 for AC induction motors powered from adjustable speed controls. Definite-Purpose Inverter-Fed Polyphase Motors. Inverter Drive Motors are suitable for variable torque applications and rated 1000:1 for constant torque (except for those Inverter Duty motors rated for use in hazardous locations). Vector Drive motors are capable of full, rated torque at 0 RPM, continuous duty. Satisfactory motor performance depends on proper drive setup.

**Super-E® Motors** - All Baldor Super-E Inverter Ready motors meet NEMA MG-1 Part 31.4.4.2 Super-E motors are suitable for use with inverter drives in applications for variable torque and with a constant torque 20:1 speed range. Motor-inverter set up is unique to each specific application. Set up and correct wiring procedures must be closely followed.

**Standard-E® Motors** - Baldor Standard-E EPAAct efficient motors are suitable for use in variable frequency applications per NEMA MG-1 Part 30. With proper motor/inverter set up, Standard-E motors are suitable for use at 20:1 variable torque and 4:1 constant torque applications.

It is necessary that motor/drive applications are commissioned by technicians familiar with the operation and setup of adjustable speed drives, applicable electrical codes and regulations. Each drive must be tuned to the motor for the specific application. System operating parameters must be checked, including voltage at motor power leads, to insure that motor/drive set up has been successfully completed. Applications that are not properly set up can lead to substandard performance and failure of system components.

Baldor currently offers a wide variety of motor control products including Washdown enclosures, Fan and Pump variable torque inverters and Soft Starters. Additionally, Baldor can build controls to your specifications, including panels with control by-pass devices. Contact your local Baldor distributor or Baldor District Office for more information.



This label identifies Baldor Inverter Ready motors.

### Baldor Super-E Motors 230, 460 and 575 Volts

Family	Frame Size	Constant Torque	Variable Torque	Comments
EM (TEFC)	143 - 449	20:1	20:1	General Purpose Premium Efficiency
EM (ODP)	143 - 445	20:1	20:1	General Purpose Premium Efficiency
ECP	143 - 449	20:1	20:1	Severe Duty Premium Efficiency
ECP8 (IEEE841)	143 - 449	20:1	20:1	Severe Duty Premium Efficiency May not meet temp rise as specified in IEEE841 when used with ASD.
EWDm	143 - 215	20:1	20:1	Washdown Duty Premium Efficiency

### Baldor Standard-E Motors 230, 460 and 575 Volts

Family	Frame Size	Constant Torque	Variable Torque	Comments
M (TEFC)	143 - 5009	4:1	10:1	General Purpose
M (ODP)	143 - 5009	4:1	10:1	General Purpose
CP	143 - 405	4:1	10:1	Severe Duty
WDM	56 - 215	4:1	10:1	Washdown Duty

### Baldor Inverter Duty and Vector Duty Motors 230, 460 and 575 Volts

Family	Frame Size	Constant Torque	Variable Torque	Comments
IDM (TEBC)	143 - 5009	1000:1	1000:1	Inverter Duty/Blower cooled
IDNM (TENV)	143 - 256	1000:1	1000:1	Inverter Duty/Non-Vented
ZDM (TEBC)	143 - 5009	1000:1	1000:1	Vector Duty/Blower Cooled
ZDNM (TENV)	143 - 256	1000:1	1000:1	Vector Duty/Non Vented
IDXM (2 families)	56 - 405 182 - 405	2:1 10:1	10:1 10:1	Explosion Proof Inverter Duty
IDWNM	143 - 254	1000:1	1000:1	Washdown Duty Inverter Duty/Non Vented
ZDWNM	143 - 254	1000:1	1000:1	Washdown Duty Vector Duty/Non Vented

## Matched Performance: The Perfect Motor and Control for Your Application

Many motor and drive manufacturers claim that their products are designed to work together, but only Baldor backs up the claim with specific data. Introduced in 1993, Matched Performance provides lab-tested performance curve data on Baldor motors and controls, 1 to 800 hp, including inverters, vectors, DC SCR drives and servos. Showing peak torque, continuous torque, maximum speed and current, each Matched Performance curve illustrates the continuous and intermittent torque available from the motor at various speeds. This lets you know the motor's safe operating envelope below and above its base speed.

### Examples:

At right are two examples of Matched Performance Curves, both showing 10 hp motors, operated from different controls.

The top curve is an EM3774T Inverter Ready Super-E motor operated from a Baldor 15H Inverter control. As you can see, the motors rated torque is 30 lb-ft, available from 90-1800 rpm, with a continuous hp operation to 3500 rpm. Speed regulation for an inverter-fed motor is approximately 2-3% of base Speed. Super-E motors with Inverters are ideally suited for variable torque loads, such as fans and centrifugal pumps. Then also work well for constant torque loads like conveyors, where precise speed control or low speed operation is not required.

The bottom curve is a ZDM3774T Vector Drive motor operated from a Baldor 18H Vector Control. Almost 200% of rated torque at zero speed is available. Full rated torque - or more - is available to 6000 rpm. With encoder feedback, the Vector Drive can maintain speed precisely 0.01% of set speed, and has the capability to do positioning like a servo motor. Vectors are well suited for applications where precise speed and position control contribute to system efficiency and productivity, like metered bulk-solid feeder operations.

### Matched Performance Curve for 10 Hp Super-E® Motor and Control\*

Motor: EM3774T - 10 Hp  
Control: ID15H210-E - 10 Hp Series 15H Inverter

### Matched Performance Curve for 10 Hp Vector Drive® Motor and Control\*

Motor: ZDM3774T - 10 Hp  
Control: ZD18H210-E - 10 Hp Series 15H Inverter

## Conduit Box Volumes – Cast Iron Frames

Motor Frame Size	Baldor ECP Volume IN <sup>3</sup>	Baldor IEEE 841 Volume IN <sup>3</sup>	Conduit Hole Size (NPT)
143T/145T	20.3	34	0.75
182T/184T	20.3	34	0.75
213T/215T	69	69	1.0
254T/256T	69	69	1.25
284T/286T	140	140	1.5
324T/326T	140	140	2.0
364T/365T	140	388	2.0
404T/405T	459	459	3.0
444T/445T	600	1020	3.0
445T/447T	1608	1608	4.0
447T/449T	1608	1608	4.0
5007/5009/5011	2100	1540	4 (2)
5810/5812	3000	-	4 (3)

**Note:** EM Motors use aluminum box thru 360 frame. 400 frame -up have boxes with Cast Iron construction. ECP motors use lead separator gasket between box and frame is a neoprene rubber "cone" design for a water-tight seal around the lead wires. Conduit box lid gasket is neoprene rubber. Grounding provision is located inside the conduit box. Additional and/or larger conduit boxes are available.

## Conduit Box Volumes – Steel Band

Motor Frame Size	Baldor Volume IN <sup>3</sup>	UL/NEC Minimum Volume IN <sup>3</sup>	NPT Hole Size
56	10.6	10.5	0.875
143T/145T	18.5	16.8	0.75
182T/184T	24.9	16.8	0.75
213T/215T	39.8	36.4	1.0
254T/256T	79	36.4	1.25
284T/326T	163.5	140	1.5
324T/326T	163.5	140	2.0
364T/365T	252	140	2.0
404T/405T	252	252	2.5

### Approvals UL and CSA

All NEMA 42 through 445T, equivalent IEC frame motors (Inverter and Vector Drive motors) are listed under UL recognized component file # E46145. All NEMA 42 through 449T frame motors are listed under CSA recognized component file #LR2262. TEFC or TEBC 5000 and 5800 frame motors up to 4160 volts, and a maximum of 900 hp - 2 pole, 800 hp - 4 pole, and 700 HP 6 pole are listed under CSA recognized component file # LR36841-7. 5000 and 5800 ODP, WPI and WPII listing is pending.

## Dimensions

### Three Phase Steel Band Construction Motors Totally Enclosed, Fan-Cooled - NEMA 56 through 215T

NEMA Frame	A	B	D	E	2F	H	Key	N	O	P	U	V	AA	AB	AC	BA
56	6.50	4.50	3.50	2.44	3.00	0.34 Slot	0.19	2.44	6.81	6.62	0.625	1.88	0.88	5.73	4.62	2.75
143T					4.00											
145T	6.50	5.94	3.50	2.75	5.00	0.34	0.19	2.50	6.81	6.62	0.875	2.25	0.88	5.73	4.62	2.25
182T					4.50											
184T	8.63	6.50	4.50	3.75	5.50	0.41	0.25	3.56	8.44	7.88	1.125	2.75	1.09	6.87	5.76	2.75
213T					5.50											
215T	9.50	8.00	5.25	4.25	7.00	0.41	0.31	3.88	10.03	9.57	1.375	3.38	1.38	8.05	6.79	3.50

**Note:** Drawings shown are for reference only. Please contact Baldor for a detailed dimensional drawing of the specific motor you require. Drawings may also be available from our CD-ROM or website at [www.baldor.com](http://www.baldor.com)

### Three Phase Cast Iron Construction Motors Totally Enclosed Fan-Cooled - NEMA 56C through 215TC - C-Face Less Base

NEMA Frame	Key	P	U	V	AA	AB	AC	AH	AJ	AK	BB	BD	Tap BF
56C	0.188	8.00	0.625	1.88	1.06	6.38	5.00	2.06	5.88	4.50	0.13	6.50	3/8-16
<b>Cast Iron Construction</b>													
143TC													
145TC	0.19	8.00	0.875	1.87	1.09	6.43	5.18	2.12	5.88	4.50	0.12	6.50	0.38-16
182TC													
184TC	0.25	10.12	1.125	2.75	1.09	7.18	5.93	2.62	7.25	8.50	0.25	9.00	0.50-13
213TC													
215TC	0.31	12.18	1.375	3.13	1.38	9.22	7.38	3.13	7.25	8.50	0.25	9.06	0.50-13

**Note:** Drawings shown are for reference only. Please contact Baldor for a detailed dimensional drawing of the specific motor you require. Drawings may also be available from our CD-Rom or website at [www.baldor.com](http://www.baldor.com)

## Dimensions

### Three Phase Cast Iron Construction Motors Totally Enclosed Fan-Cooled - NEMA 143T through 405T

NEMA Frame	A	B	D	E	2F	H	Key	N	O	P	U	V	AA	AB	AC	BA
143T					4.00											
145T	6.50	5.88	3.50	2.75	5.00	0.38	0.19	2.50	7.50	8.00	0.875	2.25	1.09	6.43	5.18	2.25
182T					4.50											
184T	8.62	6.50	4.50	3.75	5.50	0.41	0.25	2.81	9.23	9.46	1.125	2.75	1.09	7.18	5.93	2.75
213T					5.50											
215T	9.62	8.12	5.25	4.25	7.00	0.41	0.31	3.88	10.99	11.50	1.375	3.38	1.38	9.22	7.38	3.50
254T					8.25											
256T	11.50	11.50	6.25	5.00	10.00	0.53	0.38	4.32	12.88	12.94	1.625	4.00	1.38	10.04	8.19	4.25
284T					9.50											
286T	12.75	12.84	7.00	5.50	11.00	0.53	0.50	4.75	13.83	13.63	1.625	4.63	2.00	12.20	9.66	4.75
284TS					9.50											
286TS	12.75	12.84	7.00	5.50	11.00	0.53	0.38	3.37	13.83	13.63	1.625	3.25	2.00	12.20	9.66	4.75
324T					10.50											
326T	14.50	14.00	8.00	6.25	12.00	0.66	0.50	5.56	15.44	15.92	2.125	5.25	2.50	13.74	11.19	5.25
324TS					10.50											
326TS	14.50	14.00	8.00	6.25	12.00	0.66	0.50	4.06	15.44	15.92	1.875	3.75	2.50	13.74	11.19	5.25
364T					11.25											
365T	16.50	14.50	9.00	7.00	12.25	0.66	0.62	6.13	18.38	19.25	2.375	5.88	3.62	14.95	12.40	5.88
364TS					11.25											
365TS	16.50	14.50	9.00	7.00	12.25	0.66	0.50	4.00	18.38	19.25	1.875	3.75	3.62	14.95	12.40	5.88
404T					12.25											
405T	18.88	16.63	10.00	8.00	13.75	0.81	0.75	7.50	19.38	19.81	2.875	7.25	3.63	17.85	14.18	6.63

**Note:** Drawings shown are for reference only. Please contact Baldor for a detailed dimensional drawing of the specific motor you require. Drawings may also be available from our CD-ROM or website at [www.baldor.com](http://www.baldor.com)



## Dimensions

### Three Phase Cast Iron Construction Motors Totally Enclosed, Fan-Cooled - NEMA 143TC through 365TC - C-Face With Base

NEMA Frame	A	B	D	E	2F	H	Key	O	P	U	V	AA	AB	AC	AH	AJ	AK	BB	BD	Tap BF	BA
143TC					4.00																
145TC	6.50	5.88	3.50	2.75	5.00	0.38	0.19	7.51	8.00	0.875	2.13	1.09	6.43	5.18	2.25	5.88	4.50	0.13	6.47	0.38-16	2.75
182TC					4.50																
184TC	8.62	6.50	4.50	3.75	5.50	0.41	0.25	9.23	9.46	1.125	2.62	1.09	7.18	5.93	2.75	7.25	8.50	0.25	8.87	0.50-13	3.50
213TC					5.50																
215TC	9.62	8.12	5.25	4.25	7.00	0.41	0.31	10.99	11.50	1.375	3.38	1.38	9.21	7.37	3.13	7.25	8.50	0.25	9.06	0.50-13	4.25
254TC					8.25																
256TC	11.50	11.50	6.25	5.00	10.00	0.53	0.38	12.18	11.62	1.625	4.00	1.38	9.4	7.56	3.75	7.25	8.50	0.25	9.09	0.50-13	4.75
284TC					9.50																
286TC	12.75	12.84	7.00	5.50	11.00	0.53	0.50	13.85	13.63	1.875	4.63	2.00	12.20	9.66	4.38	9.00	10.50	0.25	11.21	0.50-13	4.75
324TC					10.50																
326TC	14.50	14.00	8.00	6.25	12.00	0.66	0.50	15.44	14.78	2.125	5.00	2.50	13.74	11.19	4.75	11.00	12.50	0.25	13.05	0.62-11	5.25
364TC					11.25																
365TC	16.50	14.50	9.00	7.00	12.25	0.66	0.62	18.38	19.25	2.375	5.88	3.62	14.95	12.40	5.63	11.00	12.50	0.25	12.90	0.63-11	5.88
404TC					12.25																
405TC	18.88	16.63	10.00	8.00	13.75	0.81	0.75	19.38	19.81	2.875	7.25	3.63	17.85	14.18	7.00	11.00	12.50	0.25	12.90	0.63-11	6.62

**Note:** Drawings shown are for reference only. Please contact Baldor for a detailed dimensional drawing of the specific motor you require. Drawings may also be available from our CD-ROM or website at [www.baldor.com](http://www.baldor.com)

## Dimensions

### Three Phase Cast Iron Construction Motors - Severe Duty Totally Enclosed, Fan-Cooled - NEMA 143T through 449T

NEMA Frame	A	B	D	E	2F	H	Key	N	O	P	U	V	AA	AB	AC	BA
143T					4.00											
145T	6.50	5.88	3.50	2.75	5.00	0.38	0.19	2.50	7.50	8.00	0.875	2.25	0.75	6.38	5.00	2.25
182T					4.50											
184T	8.62	6.50	4.50	3.75	5.50	0.41	0.25	2.81	9.23	10.12	1.125	2.75	0.75	7.12	5.76	2.75
213T					5.50											
215T	9.62	8.12	5.25	4.25	7.00	0.41	0.31	3.88	10.99	12.18	1.375	3.38	1.00	9.26	7.43	3.50
254T					8.25											
256T	11.50	11.50	6.25	5.00	10.00	0.53	0.38	4.38	12.88	12.94	1.625	4.00	1.25	10.10	8.27	4.25
284T					9.50											
286T	12.75	12.84	7.00	5.50	11.00	0.53	0.50	4.91	14.44	15.57	1.875	4.62	1.50	12.56	10.25	4.75
284TS					9.50											
286TS	12.75	12.84	7.00	5.50	11.00	0.53	0.38	3.53	14.44	13.63	1.625	3.25	1.50	11.65	9.34	4.75
324T					10.50											
326T	14.50	14.00	8.00	6.25	12.00	0.66	0.50	5.56	16.25	17.85	2.125	5.25	2.00	14.06	11.80	5.25
324TS					10.50											
326TS	14.50	14.00	8.00	6.25	12.00	0.66	0.50	4.06	16.25	17.85	1.875	3.75	2.00	14.06	11.75	5.25
364T					11.25											
365T	16.50	14.50	9.00	7.00	12.25	0.66	0.62	6.17	18.38	19.25	2.375	5.88	2.50	14.40	12.09	5.88
364TS					11.25											
365TS	16.50	14.50	9.00	7.00	12.25	0.66	0.50	4.05	18.38	19.25	1.875	3.75	2.50	14.40	12.09	5.88
404T					12.25											
405T	18.88	16.63	10.00	8.00	13.75	0.81	0.75	7.50	20.31	21.55	2.875	7.25	3.00	18.89	15.15	6.63
404TS					12.25											
405TS	18.88	16.63	10.00	8.00	13.75	0.81	0.50	4.54	20.31	21.55	2.125	4.25	3.00	18.84	15.15	6.63
444T					14.50											
445T	21.75	20.25	11.00	9.00	16.50	0.81	0.88	8.94	22.94	24.56	3.375	8.50	3.00	20.57	16.00	7.50
444TS					14.50											
445TS	21.75	20.25	11.00	9.00	16.50	0.81	0.62	6.44	22.94	24.56	2.375	4.75	3.00	20.57	16.00	7.50
445T					16.50											
447T	21.75	23.75	11.00	9.00	20.00	0.81	0.88	8.94	22.94	24.56	3.375	8.50	3.00	20.57	16.00	7.50
445TS					16.50											
447TS	21.75	23.75	11.00	9.00	20.00	0.81	0.62	6.44	22.94	24.56	2.375	4.75	3.00	20.57	16.00	7.50
447T					20.00											
449T	21.75	28.75	11.00	9.00	25.00	0.81	0.87	8.94	22.94	24.56	3.375	8.50	3.00	12.62	16.75	7.50
447TS					20.00											
449TS	21.75	28.75	11.00	9.00	25.00	0.81	0.62	4.93	22.94	24.56	2.375	4.75	4.00	21.71	16.75	7.50

**Note:** Drawings shown are for reference only. Please contact Baldor for a detailed dimensional drawing of the specific motor you require. Drawings may also be available from our CD-ROM or website at [www.baldor.com](http://www.baldor.com)

## Dimensions

### Three Phase Cast Iron Construction Motors - Severe Duty Totally Enclosed, Fan-Cooled - NEMA 56C through 215TC - C-Face Less Base

NEMA Frame	Key	P	U	V	AA	AB	AC	AH	AJ	AK	BB	BD	Tap BF
56C	0.19	8.02	0.625	1.88	1.06	6.38	5.00	2.06	5.88	4.50	0.13	6.48	3/8-16
143TC													
145TC	0.19	8.02	0.875	2.25	1.09	6.43	5.18	2.12	5.88	4.50	0.13	6.48	3/8-16
182TC													
184TC	0.25	9.46	1.125	2.75	1.09	7.18	5.93	2.62	7.25	8.50	0.25	8.87	1/2-13
213TC													
215TC	0.31	12.18	1.375	3.12	1.38	9.22	7.38	3.38	7.25	8.50	0.25	9.06	1/2-13

### Three Phase Cast Iron Construction Motors - Medium Voltage Severe Duty, Totally Enclosed, Fan-Cooled - NEMA 5007 through 5011

NEMA Frame	A	B	D	E	2F	H	Key	N-W	O	P	U	V	AA	AB	AC	BA
5007L	25.65	28.40	12.50	10.00	22.00	0.94	1.00	11.62	26.84	29.90	3.875	11.12	4NPT	26.88	20.80	8.50
5007S	25.65	28.40	12.50	10.00	22.00	0.94	0.625	8.47	26.84	29.90	2.50	6.50	4NPT	26.88	20.80	8.50
5009L	25.65	34.40	12.50	10.00	28.00	0.94	1.00	11.62	26.84	29.90	3.875	11.12	4NPT	26.88	20.80	8.50
5009S	25.65	34.40	12.50	10.00	28.00	0.94	0.625	8.47	26.84	29.90	2.50	6.50	4NPT	26.88	20.80	8.50
5011L	25.65	42.40	12.50	10.00	36.00	0.94	1.00	11.62	26.84	29.90	3.875	11.12	4NPT	26.88	20.80	8.50
5011S	25.65	42.40	12.50	10.00	36.00	0.94	0.625	8.47	26.84	29.90	2.50	6.50	4NPT	26.88	20.80	8.50

**Note:** Drawings shown are for reference only. Please contact Baldor for a detailed dimensional drawing of the specific motor you require. Drawings may also be available from our CD-ROM or website at [www.baldor.com](http://www.baldor.com)

## Dimensions

### Three Phase Cast Iron Construction Motors - IEEE 841 Totally Enclosed, Fan-Cooled - NEMA 143T through 449T

NEMA Frame	A	B	D	E	2F	H	Key	N	O	P	U	V	AA	AB	AC	BA
143T																
145T	6.50	5.88	3.50	2.75	5.00	0.38	0.19	2.50	7.48	8.00	0.875	2.25	0.75	6.38	5.31	2.25*
182T					4.50											
184T	8.62	6.50	4.50	3.75	5.50	0.41	0.25	2.81	9.25	10.12	1.125	2.75	0.75	7.12	5.75	2.75
213T					5.50											
215T	9.62	8.12	5.25	4.25	7.00	0.41	0.31	3.88	10.99	12.18	1.375	3.38	1.00	9.22	7.43	3.50
254T					8.25											
256T	11.50	11.50	6.25	5.00	10.00	0.53	0.38	4.20	12.96	13.44	1.625	4.00	1.25	10.48	8.66	4.25
284T					9.50											
286T	12.76	12.75	7.00	5.50	11.00	0.53	0.50	4.88	14.74	15.54	1.875	4.63	1.50	12.46	10.14	4.75
284TS					9.50											
286TS	12.76	12.75	7.00	5.50	11.00	0.53	0.50	3.50	14.74	15.54	1.625	3.25	1.50	12.46	10.14	4.75
324T					10.50											
326T	14.50	14.00	8.00	6.25	12.00	0.66	0.50	5.56	16.25	17.85	2.125	5.25	2.00	14.06	11.75	5.25
324TS					10.50											
326TS	14.50	14.00	8.00	6.25	12.00	0.66	0.50	4.06	16.68	17.40	1.875	3.75	2.00	13.37	11.05	5.25
364T					11.25											
365T	16.50	14.50	9.00	7.00	12.25	0.66	0.62	6.17	18.38	19.25	2.375	5.88	2.00	16.71	13.15	5.88
364TS					11.25											
365TS	16.50	14.50	9.00	7.00	12.25	0.66	0.50	4.06	18.44	19.28	1.875	3.75	2.00	16.59	13.03	5.88
404T					12.25											
405T	18.88	16.63	10.00	8.00	13.75	0.81	0.75	7.50	20.31	21.55	2.875	7.25	3.00	18.84	15.15	6.63
404TS					12.25											
405TS	18.88	16.63	10.00	8.00	13.75	0.81	0.50	4.56	21.00	21.25	2.125	4.25	2.50	18.84	14.15	6.62
444T					14.50											
445T	21.75	20.25	11.00	9.00	16.50	0.81	0.88	9.07	22.94	24.56	3.375	8.50	3.00	20.57	16.03	7.50
444TS					14.50											
445TS	21.75	20.25	11.00	9.00	16.50	0.81	0.62	4.90	22.94	24.81	2.375	4.75	3.00	20.82	16.28	7.50
445T					16.50											
447T	21.75	23.75	11.00	9.00	20.00	0.81	0.88	9.07	22.94	24.56	3.375	8.50	3.00	20.57	16.03	7.50
447T					20.00											
449T	21.75	28.75	11.00	9.00	25.00	0.81	0.88	8.94	22.94	24.56	3.375	8.50	4.00	21.71	16.75	7.50
447TS					15.00											
449TS	21.75	28.75	11.00	9.00	25.00	0.81	0.62	4.90	22.94	24.81	2.375	4.75	4.00	21.97	17.00	7.50

**Note:** \* Non-NEMA dimension. Drawings shown are for reference only. Please contact Baldor for a detailed dimensional drawing of the specific motor you require. Drawings may also be available from our CD-ROM or website at [www.baldor.com](http://www.baldor.com)

## Dimensions

### Three Phase Cast Iron Construction Motors - IEEE 841 Totally Enclosed, Fan-Cooled - NEMA 143TC through 365TC - C-Face With Base

NEMA Frame	A	B	D	E	2F	H	Key	O	P	U	V	AA	AB	AC	AH	AJ	AK	BB	BD	Tap BF	BA
143TC					4.00																
145TC	6.50	5.88	3.50	2.75	5.00	0.38	0.19	7.48	8.00	0.875	2.12	0.75	6.38	5.31	2.25	5.88	4.50	0.13	6.51	0.38-16	2.25*
182TC					4.50																
184TC	8.62	6.50	4.50	3.75	5.50	0.41	0.25	9.25	10.12	1.125	2.62	0.75	7.54	5.75	2.75	7.25	8.50	0.25	8.87	0.50-13	2.75
213TC					5.50																
215TC	9.62	8.12	5.25	4.25	7.00	0.41	0.31	10.99	12.18	1.375	3.38	1.00	9.22	7.43	3.12	7.25	8.50	0.25	9.06	0.50-13	4.50
254TC					8.25																
256TC	11.50	11.50	6.25	5.00	10.00	0.53	0.38	10.94	13.44	1.625	4.00	1.25	10.48	8.70	3.75	7.25	8.50	0.25	9.13	0.50-13	4.75
284TC					9.50																
286TC	12.76	12.75	7.00	5.50	11.00	0.53	0.50	14.74	15.54	1.875	4.63	1.50	12.46	10.14	4.38	9.00	10.50	0.25	11.23	0.50-13	4.75
284TSC					9.50																
286TSC	12.76	12.75	7.00	5.50	11.00	0.53	0.38	14.74	15.54	1.625	3.25	1.50	12.46	10.14	3.00	9.00	10.50	0.25	11.23	0.50-13	4.75
324TC					10.50																
326TC	14.50	14.00	8.00	6.25	12.00	0.66	0.50	16.25	17.85	2.125	5.25	2.00	14.06	11.75	5.00	11.00	12.50	0.25	13.40	0.62-11	5.25
324TSC					10.50																
326TSC	14.50	14.00	8.00	6.25	12.00	0.66	0.50	16.68	17.40	1.875	3.75	2.00	13.37	11.05	3.50	11.00	12.50	0.25	13.40	0.62-11	5.25
364TC					11.25																
365TC	16.50	14.50	9.00	7.00	12.25	0.66	0.62	18.38	19.25	2.375	5.88	2.00	16.71	13.15	5.63	11.00	12.50	0.25	12.90	0.62-11	5.88
364TSC					11.25																
365TSC	16.50	14.50	9.00	7.00	12.25	0.66	0.50	18.44	19.28	1.875	3.75	2.00	16.59	13.03	3.50	11.00	12.50	0.25	12.90	0.62-11	5.88

**Note:** Drawings shown are for reference only. Please contact Baldor for a detailed dimensional drawing of the specific motor you require. Drawings may also be available from our CD-ROM or website at [www.baldor.com](http://www.baldor.com)



## Dimensions

### Three Phase Motors Open Drip-Proof - NEMA 56 through 449T

NEMA Frame	A	B	D	E	2F	H	Key	N	O	P	U	V	AA	AB	AC	BA
56	6.50	4.50	3.50	2.44	3.00	0.34	0.19	2.44	6.81	6.62	0.625	1.88	0.88	5.61	4.56	2.75
143T					4.00											
145T	6.50	5.94	3.50	2.75	5.00	0.34	0.19	2.50	6.81	6.62	0.875	2.25	0.88	5.61	4.56	2.25
182T					4.50											
184T	8.63	6.50	4.50	3.75	5.50	0.41	0.25	3.56	8.44	7.88	1.125	2.75	1.09	6.75	5.70	2.75
213T					5.50											
215T	9.50	8.00	5.25	4.25	7.00	0.41	0.31	3.88	10.03	9.57	1.375	3.38	1.38	7.93	6.73	3.50
254T					8.25											
256T	11.25	11.25	6.25	5.00	10.00	0.53	0.38	4.31	12.00	11.69	1.625	4.00	1.38	9.49	7.69	4.25
284T					9.50											
286T	12.25	12.25	7.00	5.50	11.00	0.53	0.50	4.94	13.63	13.25	1.625	4.63	2.00	12.33	9.78	4.75
284TS					9.50											
286TS	12.25	12.25	7.00	5.50	11.00	0.53	0.38	3.56	13.63	13.25	1.625	3.25	2.00	12.33	9.78	4.75
324T					10.50											
326T	14.04	13.50	8.00	6.25	12.00	0.66	0.50	5.56	15.59	15.19	2.125	5.25	2.50	13.32	10.77	5.25
324TS					10.50											
326TS	14.04	13.50	8.00	6.25	12.00	0.66	0.50	4.06	15.59	15.19	1.875	3.75	2.00	13.22	10.71	5.25
364T					11.25											
365T	15.75	14.00	9.00	7.00	12.25	0.66	0.62	6.06	16.59	15.12	2.375	5.88	3.62	13.20	10.71	5.88
364TS					11.25											
365TS	15.75	14.00	9.00	7.00	12.25	0.66	0.50	3.94	16.59	15.19	1.875	3.75	3.62	13.20	10.71	5.88
404T					12.25											
405T	18.49	16.62	10.00	8.00	13.75	0.81	0.75	7.44	18.41	16.81	2.875	7.25	3.62	16.39	12.75	6.63
404TS					12.25											
405TS	18.49	16.62	10.00	8.00	13.75	0.81	0.50	4.44	18.41	16.81	2.125	4.25	3.62	16.39	12.75	6.63

#### Cast Iron Construction

364T					11.25											
365T	17.56	15.13	9.00	7.00	12.25	0.65	0.63	6.06	18.80	18.35	2.375	5.88	3.63	15.02	12.46	5.88
404T					12.25											
405T	19.50	16.63	10.00	8.00	13.75	0.81	0.75	7.50	20.14	20.28	2.875	7.25	3.63	18.40	14.68	6.62
404TS					12.25											
405TS	19.50	16.63	10.00	8.00	13.75	0.81	0.50	4.50	20.14	20.28	2.125	4.25	3.63	18.40	14.68	6.62
444T					14.50											
445T	21.50	19.50	11.00	9.00	16.50	0.81	0.88	8.87	22.18	22.55	3.375	8.50	3.62	19.06	14.62	7.50
444TS					14.50											
445TS	21.50	19.50	11.00	9.00	16.50	0.81	0.63	5.13	22.18	22.55	2.375	4.75	3.62	19.06	14.62	7.50
447T					15.00											
449T	21.50	28.00	11.00	9.00	25.00	0.81	0.875	8.87	22.43	22.84	3.375	8.50	4.00	20.67	15.76	7.50

**Note:** Drawings shown are for reference only. Please contact Baldor for a detailed dimensional drawing of the specific motor you require. Drawings may also be available from our CD-ROM or website at [www.baldor.com](http://www.baldor.com)

## Dimensions

### Three Phase Motors - Explosion Proof Totally Enclosed, Fan-Cooled - NEMA 143T through 365T

NEMA Frame	A	B	D	E	2F	H	Key	N	O	P	U	V	AA	AB	AC	BA
<b>Steel Band Construction</b>																
143T					4.00											
145T	6.50	5.94	3.50	2.75	5.00	0.34	0.19	2.46	7.09	6.69	0.875	2.25	0.75	6.92	5.38	2.25
<b>Cast Iron Construction</b>																
143T					4.00											
145T	6.50	8.47	3.50	2.75	5.00	0.37	0.19	2.38	7.84	8.56	0.875	2.25	0.75	8.07	6.59	2.25
182T					4.50											
184T	8.63	8.00	4.50	3.75	5.50	0.41	0.25	3.26	9.56	10.09	1.125	2.75	0.75	8.56	6.53	2.75
213T					5.50											
215T	9.75	8.00	5.25	4.25	7.00	0.41	0.31	3.47	10.75	11.00	1.375	3.38	0.75	9.66	7.62	3.50
254T					8.25									11.21 <sup>1</sup>	8.57 <sup>1</sup>	
256T	11.50	11.50	6.25	5.00	10.00	0.53	0.38	4.20	12.94	13.38	1.625	4.00	1.25	12.62 <sup>2</sup>	9.49 <sup>2</sup>	4.25
284T					9.50									14.33 <sup>1</sup>	10.69 <sup>1</sup>	
286T	12.76	12.75	7.00	5.50	11.00	0.53	0.50	4.88	14.74	15.54	1.875	4.63	1.25	16.52 <sup>2</sup>	11.57 <sup>2</sup>	4.75
324T					10.50									15.21 <sup>1</sup>	11.60 <sup>1</sup>	
326T	14.50	14.00	8.00	6.25	12.00	0.66	0.50	5.44	16.68	17.40	2.125	5.25	1.50	17.55 <sup>2</sup>	12.48 <sup>2</sup>	5.25
364T					11.25									19.85 <sup>2</sup>	14.13 <sup>2</sup>	
365T	16.50	14.50	9.00	7.00	12.25	0.66	0.62	6.13	18.44	19.13	2.375	5.88	3.00	19.85 <sup>2</sup>	14.13 <sup>2</sup>	5.88

**NOTE:** <sup>1</sup> Class I, Group C & D, Class II Group F & G

<sup>2</sup> Class I Group D, Class II Group F & G

**Note:** Drawings shown are for reference only. Please contact Baldor for a detailed dimensional drawing of the specific motor you require. Drawings may also be available from our CD-ROM or website at [www.baldor.com](http://www.baldor.com)

## Dimensions

### TEFC Close-Coupled Pump NEMA 143JM through 215JM

NEMA Frame	A	B	D	E	2F	H	KEY	O	P	U	AA	AB	AH	AJ	BF TAP	AK	BA	BB	BD	XO
<b>Steel Band Construction</b>																				
143JM	6.50	5.94	3.50	2.75	4.00	0.34	0.19	6.81	6.63	0.875	0.50	5.73	4.25	5.88	3/8-16	4.50	2.88	0.12	6.50	—
145JM	6.50	5.94	3.50	2.75	5.00	0.34	0.19	6.81	6.63	0.875	0.50	5.73	4.25	5.88	3/8-16	4.50	2.88	0.12	6.50	—
182JM	8.63	6.50	4.50	3.75	4.50	0.41	0.19	8.44	7.88	0.875	0.75	6.86	4.25	5.88	3/18-16	4.50	3.50	0.12	6.50	2.40
184JM	8.63	6.50	4.50	3.75	5.50	0.41	0.19	8.44	7.88	0.875	0.75	6.86	4.25	5.88	3/18-16	4.50	3.50	0.12	6.50	2.40
213JM	9.50	8.00	5.25	4.25	5.50	0.41	0.19	10.03	9.56	0.875	1.38	8.04	4.25	7.25	1/2-13	8.50	4.50	0.25	9.06	2.40
215JM	9.50	8.00	5.25	4.25	7.00	0.41	0.19	10.03	9.56	0.875	1.38	8.04	4.25	7.25	1/2-13	8.50	4.50	0.25	9.06	2.40
<b>Cast Iron</b>																				
254JM	11.50	11.50	6.25	5.00	8.25	0.53	0.25	12.88	12.94	1.250	1.38	10.04	5.25	7.25	1/2-13	8.50	4.75	0.25	9.09	2.72
256JM	11.50	11.50	6.25	5.00	10.00	0.53	0.25	12.88	12.94	1.250	1.38	10.04	5.25	7.25	1/2-13	8.50	4.75	0.25	9.09	2.72
284JM	12.75	12.84	7.00	5.50	9.50	0.53	0.25	14.44	15.29	1.250	2.00	13.11	5.25	11.00	5/8-11	12.50	4.75	0.25	13.05	2.72
286JM	12.75	12.84	7.00	5.50	11.00	0.53	0.25	14.44	15.29	1.250	2.00	13.11	5.25	11.00	5/8-11	12.50	4.75	0.25	13.05	2.72
324JM	14.50	14.00	8.00	6.25	10.50	0.66	0.25	16.25	17.85	1.250	2.50	14.61	5.25	11.00	5/8-11	12.50	5.25	0.25	13.40	3.22
326JM	14.50	14.00	8.00	6.25	12.00	0.66	0.25	16.25	17.85	1.250	2.50	14.61	5.25	11.00	5/8-11	12.50	5.25	0.25	13.40	3.22

### Washdown Closed-Coupled Pump Shaft Motors

NEMA Frame	EL	EM	EN	EQ	ES	ET
<b>Steel Band Construction</b>						
143JM	1.15	1.0	0.38-16 x 0.88	0.625	1.38	2.875
145JM	1.15	1.0	0.38-16 x 0.88	0.625	1.38	2.875
182JM	1.25	1.0	0.38-16 x 0.88	0.625	1.38	2.875
184JM	1.25	1.0	0.38-16 x 0.88	0.625	1.38	2.875
213JM	1.25	1.0	0.38-16 x 0.88	0.625	1.38	2.875
215JM	1.25	1.0	0.38-16 x 0.88	0.625	1.38	2.875
<b>Cast Iron</b>						
254JM	1.75	1.38	0.50-13x1.12	0.625	2.25	3.000
256JM	1.75	1.38	0.50-13x1.12	0.625	2.25	3.000
284JM	1.75	1.38	0.50-13x1.12	0.625	2.25	3.000
286JM	1.75	1.38	0.50-13x1.12	0.625	2.25	3.000
324JM	1.75	1.38	0.50-13x1.25	0.625	2.25	3.000
326JM	1.75	1.38	0.50-13x1.25	0.625	2.25	3.000

**NOTE:** Dimension for reference only. Contact a Baldor District Office or [www.baldor.com](http://www.baldor.com) for the detailed dimension drawing for your specific catalog number.

## Dimension Drawings

### Washdown NEMA 56 through 256TC

#### TENV Enclosure

#### TEFC Enclosure

#### TENV Enclosure

#### TEFC Enclosure

Catalog No. starting with "C" = C-face with base.  
Catalog No. starting with "V" = C-face, no base.

NEMA Frame	A	B	D	E	2F	H	N	O	P	U	V	AA	AB	AH	AJ	BF TAP	AK	BA	BB	BD
56	6.50	4.50	3.50	2.44	3.00	0.34	2.44	6.81	6.62	0.625	1.88	0.50	5.22	-	-	3/8-16	-	2.75	-	-
56C	6.50	4.50	3.50	2.44	3.00	0.34	-	6.81	6.62	0.625	1.88	0.50	5.22	2.06	5.88	3/8-16	4.50	2.75	0.12	6.50
143T	6.50	5.94	3.50	2.75	4.00	0.34	2.50	6.81	6.62	0.875	2.25	0.50	5.22	-	-	3/8-16	-	2.25	-	-
143TC	6.50	5.94	3.50	2.75	4.00	0.34	-	6.81	6.62	0.875	2.25	0.50	5.22	2.12	5.88	3/8-16	4.50	2.75	0.12	6.50
145T	6.50	5.94	3.50	2.75	5.00	0.34	2.50	6.81	6.62	0.875	2.25	0.50	5.22	-	-	3/8-16	-	2.25	-	-
145TC	6.50	5.94	3.50	2.75	5.00	0.34	-	6.81	6.62	0.875	2.25	0.50	5.22	2.12	5.88	3/8-16	4.50	2.75	0.12	6.50
182T	8.63	6.50	4.50	3.75	4.50	0.41	3.56	8.44	7.88	1.125	2.75	0.75	5.97	-	-	1/2-13	-	2.75	-	-
182TC	8.63	6.50	4.50	3.75	4.50	0.41	-	8.44	7.88	1.125	2.75	0.75	5.97	2.62	7.25	1/2-13	8.50	3.50	0.25	8.89
184T	8.63	6.50	4.50	3.75	5.50	0.41	3.56	8.44	7.88	1.125	2.75	0.75	5.97	-	-	1/2-13	-	2.75	-	-
184TC	8.63	6.50	4.50	3.75	5.50	0.41	-	8.44	7.88	1.125	2.75	0.75	5.97	2.62	7.25	1/2-13	8.50	3.50	0.25	8.89
213T	9.50	8.00	5.25	4.25	5.50	0.41	3.88	10.03	9.56	1.375	3.37	0.75	8.06	-	-	1/2-13	-	3.50	-	-
213TC	9.50	8.00	5.25	4.25	5.50	0.41	-	10.03	9.56	1.375	3.37	0.75	8.06	3.12	7.25	1/2-13	8.50	4.50	0.25	9.04
215T	9.50	8.00	5.25	4.25	7.00	0.41	3.88	10.03	9.56	1.375	3.37	0.75	8.06	-	-	1/2-13	-	3.50	-	-
215TC	9.50	8.00	5.25	4.25	7.00	0.41	-	10.03	9.56	1.375	3.37	0.75	8.06	3.12	7.25	1/2-13	8.50	4.50	0.25	9.04
254TC	11.25	11.25	6.25	5.00	8.25	0.53	-	12.00	12.43	1.625	4.00	1.25	9.73	3.75	7.25	1/2-13	8.50	4.75	0.25	9.44
256TC	11.25	11.25	6.25	5.00	10.00	0.53	-	12.00	12.43	1.625	4.00	1.25	9.73	3.75	7.25	1/2-13	8.50	4.75	0.25	9.44

**NOTE:** Dimension for reference only. Contact a Baldor District Office or [www.baldor.com](http://www.baldor.com) for the detailed dimension drawing for your specific catalog number.

## Dimensions

### Three Phase - Close-Coupled Pump Motors Open Drip-Proof - NEMA 143JM through 326JM

NEMA Frame	A	B	D	E	2F	H	Key	O	P	U	AA	AB	AC	AH	AJ	AK	BB	BD	BF	Tap BA
143					4.00															
145	6.50	5.94	3.50	2.75	5.00	0.34	0.19	6.77	6.62	0.875	0.88	5.61	4.56	4.28	5.88	4.50	0.13	6.51	0.38-16	2.88
182					4.50															
184	8.63	6.50	4.50	3.75	5.50	0.41	0.19	8.44	7.88	0.875	1.09	6.74	5.70	4.25	5.88	4.50	0.13	6.61	0.38-16	3.50
213					5.50															
215	9.50	8.00	5.25	4.25	7.00	0.41	0.188	10.03	9.57	0.875	1.38	7.92	6.72	4.25	7.25	8.50	0.25	9.07	0.50-13	4.25
254					8.25															
256	11.25	11.25	6.25	5.00	10.00	0.53	0.25	12.00	11.50	1.25	1.38	9.49	7.69	5.25	7.25	8.50	0.25	9.45	0.50-13	4.75
284					9.50															
286	12.25	12.25	7.00	5.50	11.00	0.53	0.25	13.63	13.25	1.25	2.00	12.21	9.72	5.25	11.00	12.50	0.25	13.03	0.62-11	4.75
324					10.50															
326	14.04	13.50	8.00	6.25	12.00	0.66	0.25	15.59	15.16	1.375	2.50	13.20	10.71	5.25	11.00	12.50	0.25	13.31	0.62-11	5.25

**Note:** Drawings shown are for reference only. Please contact Baldor for a detailed dimensional drawing of the specific motor you require. Drawings may also be available from our CD-ROM or website at [www.baldor.com](http://www.baldor.com)

NEMA Frame	EL	EM	EN	EQ	ES	ET
143						
145	1.56	1.00	0.38-16x0.88	0.64	1.39	2.89
182						
184	1.25	1.00	0.38-16x0.88	0.64	1.39	2.89
213						
215	1.25	1.00	0.38-16x0.88	0.64	1.36	2.89
254						
256	1.75	1.375	0.50-13x1.25	0.625	2.25	3.00
284						
286	1.75	1.375	0.50-13x1.25	0.625	2.25	3.00
324						
326	1.75	1.375	0.50-13x1.25	0.625	2.25	3.00



## Dimensions

### Three Phase Motors Cast Iron Construction - Automotive Approved Totally Enclosed, Fan-Cooled - NEMA 182 through 445U

NEMA Frame	A	B	D	E	2F	H	Key	N	O	P	U	V	AA	AB	AC	BA
182					4.50											
184	8.62	6.50	4.50	3.75	5.50	0.41	0.188	2.37	9.23	10.12	0.875	2.25	0.75	7.12	5.75	2.75
213					5.50											
215	9.62	8.12	5.25	4.25	7.00	0.41	0.25	3.50	10.99	11.25	1.125	3.00	1.00	9.20	7.38	3.50
254U					8.25											
256U	11.50	11.50	6.25	5.00	10.00	0.53	0.312	4.07	12.88	12.94	1.375	3.75	1.25	10.11	8.27	4.25
284U					9.50											
286U	12.75	12.84	7.00	5.50	11.00	0.53	0.38	5.19	14.66	15.57	1.625	4.88	1.50	12.58	10.25	4.75
324U					10.50											
326U	14.50	14.00	8.00	6.25	12.00	0.66	0.50	6.00	16.25	17.85	1.875	5.63	2.00	14.05	11.72	5.25
384U					11.25											
386U	16.50	14.50	9.00	7.00	12.25	0.66	0.50	6.67	18.38	19.25	2.125	6.38	2.00	14.41	12.06	5.88
404U					12.25											
405U	18.88	16.63	10.00	8.00	13.75	0.81	0.62	7.48	20.31	21.44	2.375	7.12	3.00	18.84	15.15	6.62
444U					14.50											
445U	21.75	20.25	11.00	9.00	16.50	0.81	0.75	9.06	22.93	24.56	2.875	8.62	2.50	20.58	16.03	7.50

**Note:** Drawings shown are for reference only. Please contact Baldor for a detailed dimensional drawing of the specific motor you require. Drawings may also be available from our CD-ROM or website at [www.baldor.com](http://www.baldor.com)

## Dimensions

### Single Phase Motors - Totally Enclosed, Fan-Cooled NEMA 48 through 184T

NEMA Frame	A	B	D	E	2F	H	Key	N	O	P	U	V	AA	AB	AC	BA	XO
48	5.75	4.00	3.00	2.13	2.75	0.34 Slot	Flat 0.047 Deep 1.12 Long	1.87	5.85	5.69	0.50	1.50	0.88	5.18	3.60	2.50	2.31 1.56
56 400Typ	6.50	4.00	3.50	2.44	3.00	0.34 Slot	0.19	2.50	6.36	5.69	0.625	1.88	0.88	4.90	3.53	2.75	1.56 2.31
56 56H	6.50	4.50 6.50	3.50	2.44	3.00 5.00	0.34 Slot	0.19	2.47 2.12	6.81	6.62	0.625	1.88	0.88	5.73	4.62	2.75	2.24
143T 145T	6.50	5.94	3.50	2.75	4.00 5.00	0.34 Slot	0.19	2.50	6.81	6.62	0.875	2.25	0.88	5.73	4.62	2.25	2.25
182T 184T	8.63	6.50	4.50	3.75	4.50 5.50	0.41 Slot	0.25	3.56	8.44	7.88	1.125	2.75	1.09	6.87	5.76	2.75	2.69

**Note:** Drawings shown are for reference only. Please contact Baldor for a detailed dimensional drawing of the specific motor you require. Drawings may also be available from our CD-ROM or website at [www.baldor.com](http://www.baldor.com)

## Dimensions

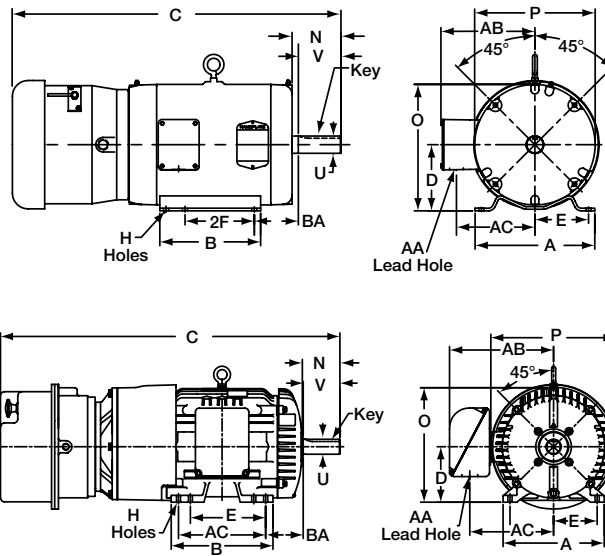
### Single Phase Motors - Open Drip-Proof NEMA 48 through 184T

NEMA Frame	A	B	D	E	2F	H	Key	N	O	P	U	V	AA	AB	AC	BA	XO	
48	5.75	4.00	3.00	2.12	2.75	0.34 Slot	Flat 0.047 Deep 1.12 Long	1.75	5.85	5.69	0.50	1.50	0.88	5.06	3.54	2.50	1.50 2.25	
56 400Typ	6.56	4.00	3.50	2.44	3.00	0.34 Slot		0.19	2.13	6.34	5.69	0.625	1.88	0.88	5.06	3.54	2.75	1.50 2.25
56 56H	6.50	4.50 6.50	3.50	2.44	3.00 5.00	0.34 Slot		0.19	2.44 2.13	6.81	6.62	0.625	1.88	0.88	5.62	4.56	2.75	2.18
143T 145T	6.50	5.94	3.50	2.75	4.00 5.00	0.34		0.19	2.50	6.81	6.62	0.875	2.25	0.88	5.73	4.62	2.25	2.18
182T 184T	8.63	6.50	4.50	3.75	4.50 5.50	0.41		0.25	3.56	8.44	7.88	1.125	2.75	1.09	6.75	5.76	2.75	2.24 2.63

**Note:** Drawings shown are for reference only. Please contact Baldor for a detailed dimensional drawing of the specific motor you require. Drawings may also be available from our CD-ROM or website at [www.baldor.com](http://www.baldor.com)

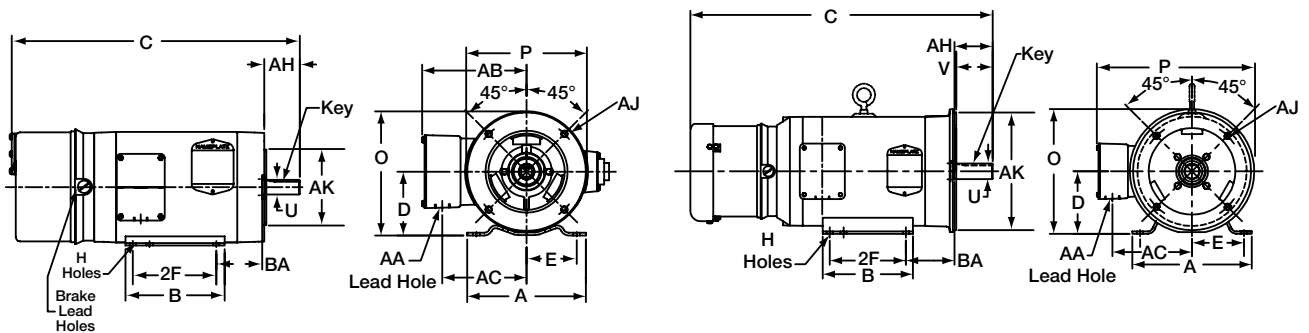
## Dimensions

### Brake Motors



	NEMA Frame	A	B	D	E	2F	H	Key	N	O	P	U	V	AA	AB	AC	BA
<b>Steel Band Construction</b>																	
EBM TENV	56	6.50	4.50	3.50	2.44	3.00	0.34 Slot	0.19	2.44	6.81	6.63	0.625	1.88	0.88	5.75	4.62	2.75
	143T					4.00											
EBM TEFC	145T	6.50	5.94	3.50	2.75	5.00	0.34	0.19	2.50	6.81	6.62	0.875	2.25	0.88	5.22	4.18	2.75
	182T					4.50											
EBM TEFC	184T	8.63	6.50	4.50	3.75	5.50	0.41	0.25	3.56	8.44	7.89	1.125	2.75	1.09	5.97	4.94	2.75
	213T					5.50											
EBM TEFC	215T	9.50	8.00	5.25	4.25	7.00	0.41	0.31	3.88	10.03	9.56	1.375	3.38	1.09	8.05	6.79	3.50
<b>Cast Iron</b>																	
EBM TEFC	254T					8.25											
	256T	11.50	11.50	6.25	5.00	10.00	0.53	.038	4.32	12.88	12.94	1.625	4.00	1.38	9.49	7.99	4.25
	284T					9.50											
EBM TEFC	286T	12.75	12.84	7.00	5.50	11.00	0.53	0.5	4.75	14.44	15.72	1.875	4.63	2.00	13.11	10.56	4.75

### Washdown Brake Motors



	NEMA Frame	A	B	D	E	2F	H	Key	O	P	U	V	AA	AB	AC	AH	AJ	AK	BB	Tap BF	BA
CEWDBM TENV	56C	6.50	4.50	3.50	2.44	3.00	0.34 Slot	0.19	6.75	6.63	0.625	1.88	0.50 NPT	5.74	4.62	2.06	5.88	4.50	0.12	0.38-16	2.75
CEWDBM TENV	143TC					4.00															
CEWDBM TENV	145TC	6.50	5.94	3.50	2.75	5.00	0.34	0.19	6.81	6.62	0.875	2.13	0.50 NPT	5.73	4.62	2.13	5.88	4.50	0.12	0.38-16	2.75
CEWDBM TEFC	143TC					4.00															
CEWDBM TEFC	145TC	6.50	5.94	3.50	2.75	5.00	0.34	0.19	6.81	6.69	0.875	2.13	0.50 NPT	5.73	4.62	2.12	5.88	4.50	0.12	0.38-16	2.75
CEWDBM TEFC	182TC					4.50															
CEWDBM TEFC	184TC	8.63	6.50	4.50	3.75	5.50	0.41	0.25	8.99	7.89	1.125	2.75	0.75 NPT	5.88	5.75	2.62	7.25	8.50	0.25	0.50-13	3.50

## Connection Diagrams

**CD0005**

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**CD0006**

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**CD0017A02**

## Connection Diagrams

CD0022

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CD0055

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CD0180



## Connection Diagrams

**CD0382**

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**CD0695**

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