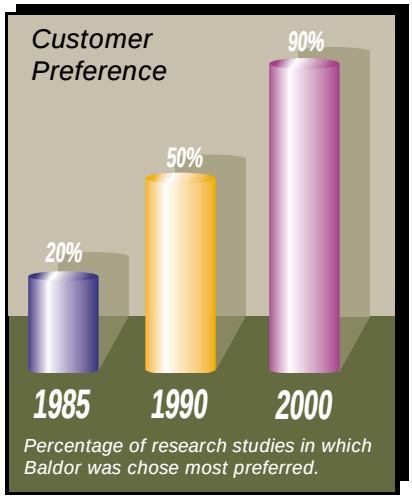
BALDOR®
MOTORS AND DRIVES

Explosion Proof AC and DC Motors

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 6,000 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® 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 40 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 new 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 – as short as ten 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 a choice of sources for product information with a wide variety of catalogs and product brochures, a CD-ROM electronic catalog, the Baldor Web site (www.baldor.com), or you may talk to a Baldor customer service person at one of our sales offices.

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The best value in Explosion-Proof motors, too.

Since the 1940s, when Baldor introduced its first explosion-proof motor, the company has designed and manufactured motors that meet or exceed industry standards, ensuring safety, energy efficiency and overall reliability.

Today, Baldor offers nearly 300 different explosion-proof stock motors, from 1/4 hp to 300 hp, in frame sizes up to NEMA 449T. Motor models include:

- Single phase and three phase
- Super-E® premium efficient
- 50 Hz
- Standard 1.0 or 1.15 Service Factor
- Petro-Chem Service
- NEMA C-face
- Jet-Pump
- Close-coupled pump
- Brake motors
- Inverter Drive®
- SCR Drive permanent magnet DC
- SCR Drive shunt wound DC

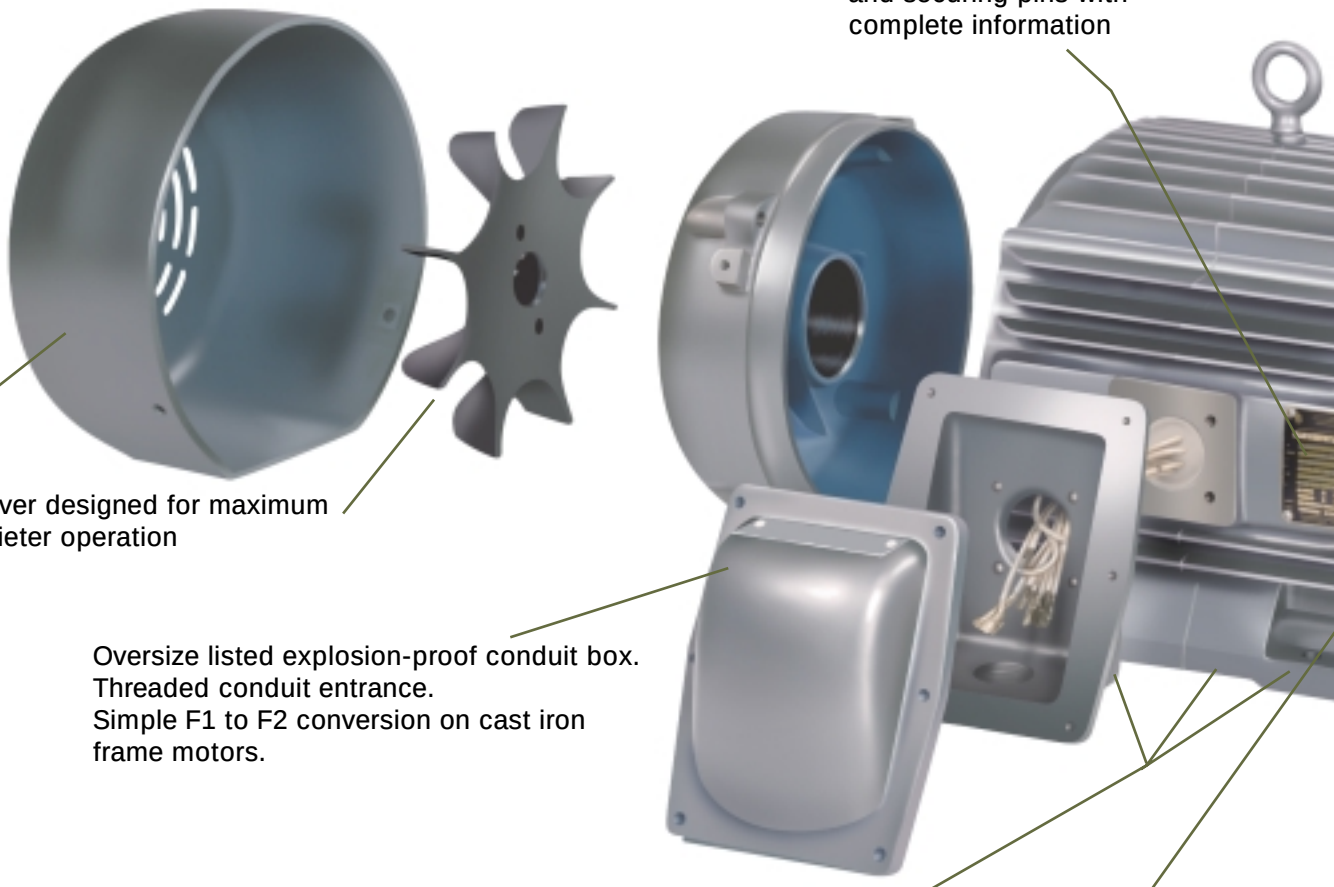
Baldor's explosion-proof motors meet all the stringent UL and CSA requirements for use in hazardous locations. Custom motors are also available. Combine this selection with Baldor's unmatched service, support and stock availability, and you'll see why Baldor is the value leader in explosion-proof motors.

From 1/4 Hp to 300 Hp, Baldor has your Explosion-Proof Motor

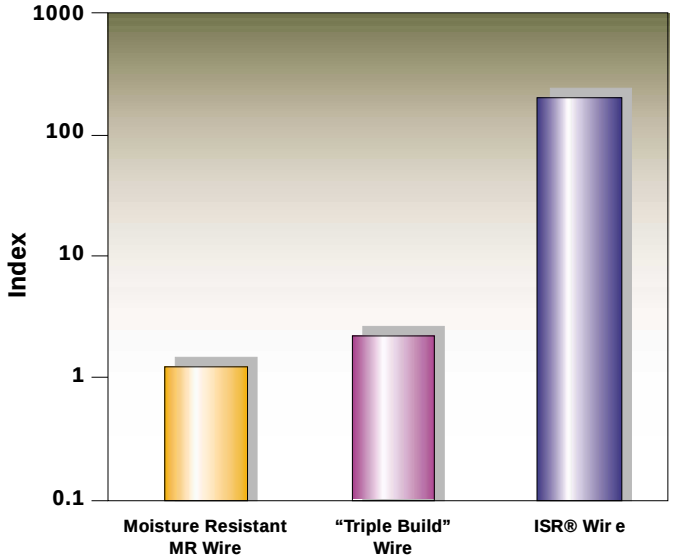
	Frame Size			
Hp	**3600 RPM**	**1800 RPM**	**1200 RPM**	**900 RPM**
1/4		48		
1/3		56	56	
1/2	56	48 or 56	56	143T
3/4	56	56	56 or 143T	145T
1	56	56, 143T or 182T	56 or 145T	182T
1 1/2	143T	56, 145T or 184	145T or 184T	184T
2	145T	56, 145T or 184	184T	213T
3	145T, 184T or 184	**182T** or 213	213T	215T
5	184T	**184T** or 215	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**	286T or 326T	364T
40	324TS	**324T**	364T	365T
50	326TS	**326T**	365T	404T
60	326TS	**364T**	404T	405T
75	364TS	365T	405T	444T
100	365TS	405T		445T
125	404TS	444T		447T
150	405TS - 445TS	445T	449T	449T
200	444TS - 449TS	447T	449T	-
250	445TS - 449TS	447T	449T	-
300	449TS	449T	-	-

Bold indicates ratings where Class I, Group C & D; Class II, Group F & G are available in this frame size from stock. Other ratings are available Class I Group C&D; Class II-Group F&G as customs with short lead times. Many ratings are available from stock as Class I-Group C & D or Class I-Group D; Class II-Group F&G.

Reliability and performance you can count on...



Baldor's exclusive ISR® (Inverter Spike Resistant) magnet wire is up to 100 times more resistant to voltage spikes



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

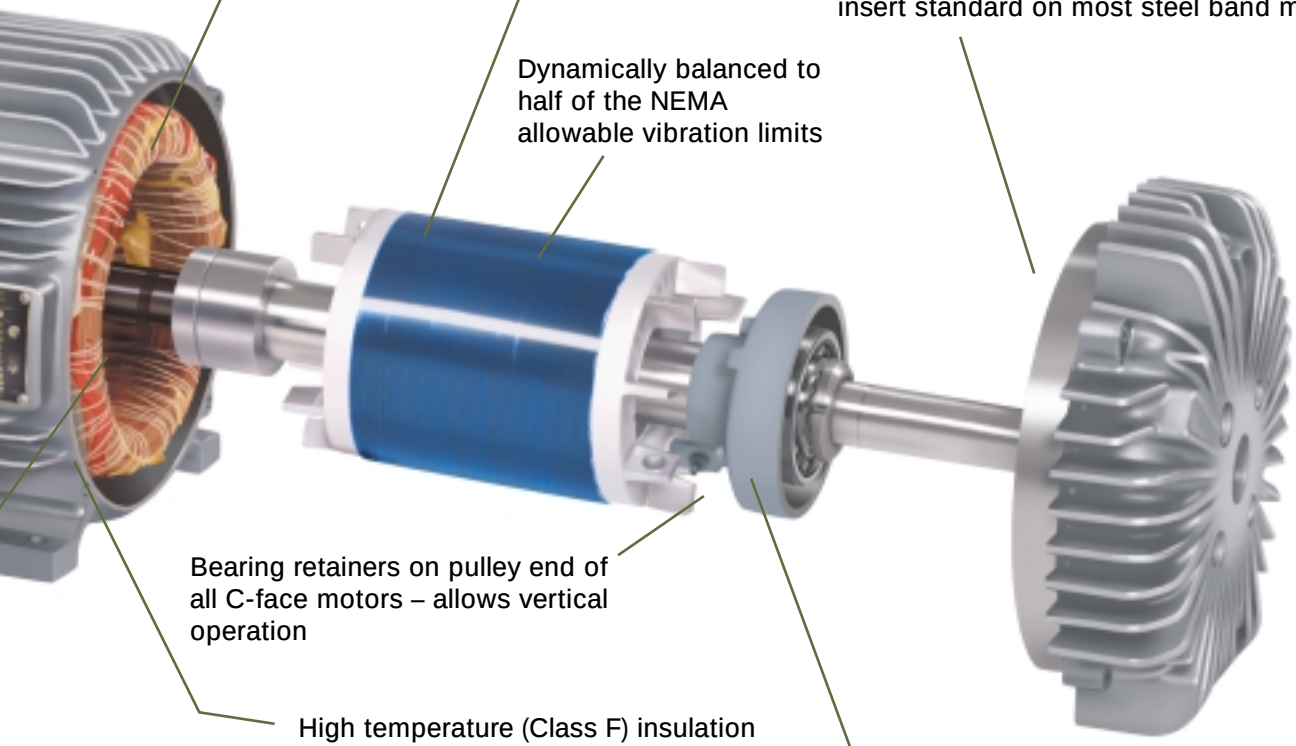
Source:
Phelps Dodge Magnet Wire Company (Used with permission)

End turns laced both ends

High-pressure die cast aluminum rotor, coated to prevent corrosion

Cast iron endplates and fan cover standard – 250T-up (standard on all cast iron frame motors) with long flame paths. Die cast aluminum endplates with steel bearing insert standard on most steel band motors.

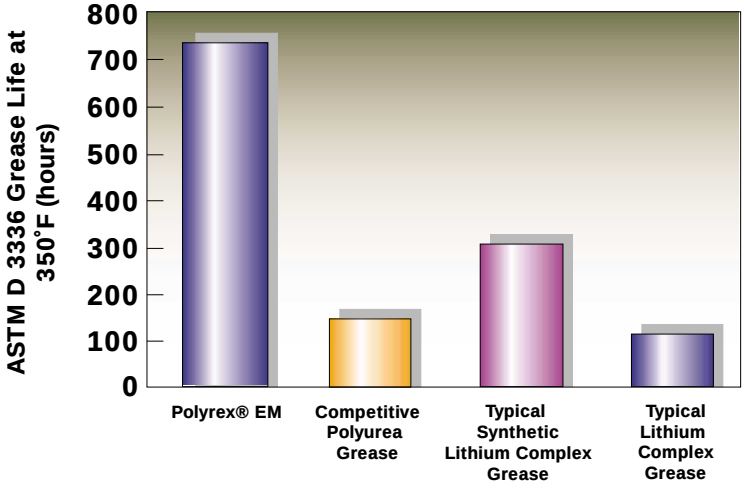
Dynamically balanced to half of the NEMA allowable vibration limits



Bearing retainers on pulley end of all C-face motors – allows vertical operation

High temperature (Class F) insulation systems, dip and baked with moisture resistant non-hygroscopic varnish

Baldor was the first motor manufacturer to use Exxon Polyrex® EM grease. Polyrex® EM protects motor bearings better, providing improved lubrication life, greater shear stability, and superior resistance to washout, rust and corrosion.



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.

Meeting industry specifications and beyond.

When you specify a Baldor explosion-proof motor, you can trust that it meets your specifications, and more. Baldor follows the specs to the letter, and then takes it a step further. We listen to motor users and learn from their experiences. We design and build motors that deliver reliable performance. And we earn long-term customer relationships by exceeding their expectations.

Baldor explosion-proof motors feature cast-iron frames and endplates on NEMA 143T frame sizes and larger. NEMA 215T and smaller frames feature a rugged industrial rolled steel band construction with external through-bolts. 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. ISR® Inverter Spike Resistant magnet wire, POLYREX EM® moisture resistant grease and low-loss electrical grade steel laminations are also standard features.

In applications where explosion-proof motors are operating for extended periods of time, the Baldor Explosion-Proof Super-E® premium efficient motor can significantly reduce your energy costs.

Baldor Explosion-Proof Motor Design Specifications

Specification	Description
Bearings	Anti-friction motor quality ball bearings standard.
Conduit Box	UL approved conduit boxes available for all motors. Class 1, Group C&D, Class 2 Groups F&G Leads “potted” in stator lead entry hole.
Construction	All cast iron construction on frames 143T and larger. Rolled steel band construction on frames 215T and smaller (when noted).
Efficiencies	All general-purpose, T-frame, single-speed, foot-mounted, polyphase NEMA Design A and B, motors operating on 230/460 volts and 60 hertz meet or exceed the efficiency standards set forth in the Energy Policy Act (EPAct) of 1992.
Enclosure	Totally enclosed fan cooled.
External Cooling Fan	Non-sparking, non-corrosive glass-filled polypropylene.
Frequency	60 Hz standard. 50 Hz designs also stocked.
Ground Lug	Located inside conduit box.
ISR® Magnet Wire	Inverter Spike Resistant® 200°C moisture resistant copper wire is standard on 1hp and up. Coil endturns are laced and tied every slot for winding rigidity.
Insulation	Non-hygroscopic polyester high temperature varnish.
Laminations	Low-loss electrical grade steel for enhanced efficiency.
Lead Wire Material	Copper wire, insulated with a non-wicking cross-linked polymetric cover.
Lubrication	Exxon POLYREX®EM Grease.
Nameplate	UL nameplate with listing for Class, Group and Temperature Codes.
Paint	Motors are coated with two-part epoxy paint for corrosion protection.
Rating	Continuous duty in 40°C ambient temperature.
Rotor Construction	High-pressure die cast aluminum squirrel cage rotors, precision balanced.
Service Factor	1.00 S.F. standard. 1.15 S.F. motors available. See page 14.
Voltage	115/230 volt single phase; 230/460, and 575 voltages, Three phase standard. Other voltage ratings are available.
Winding Design	Nema Design B torques.

Going Beyond the Industry Standard in Explosion-Proof Motors

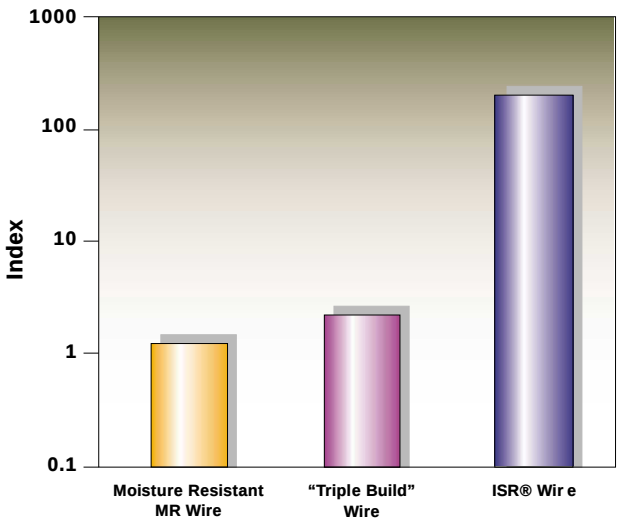
Baldor's explosion-proof motors are another example of our commitment to provide reliable performance, while exceeding customer expectations.

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.

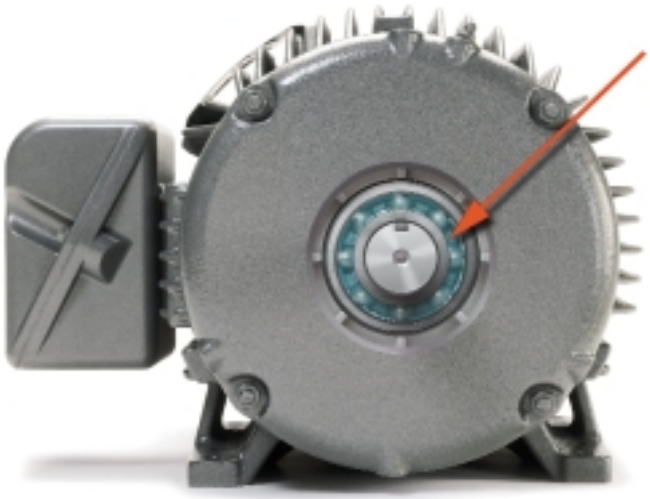
Thermal Rating: 200°C

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.



Provides...

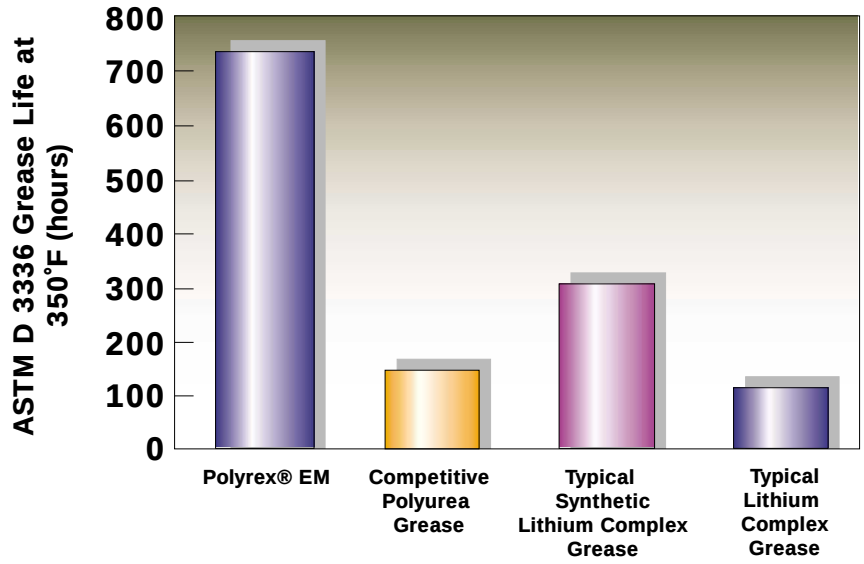
- improved lubrication life
- greater shear stability
- superior resistance to washout, rust and corrosion

Exxon Polyrex® EM Polyurea Grease

Plant Engineering "Product of the Year" Award

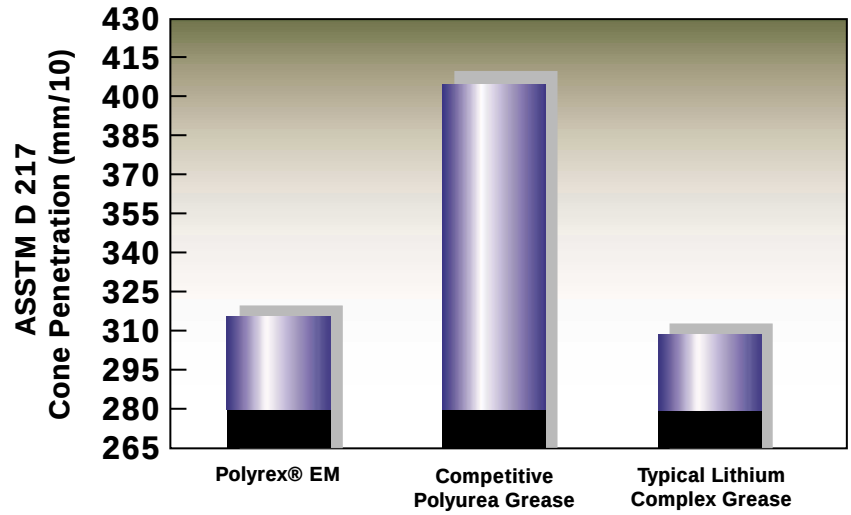
Baldor earned another *Plant Engineering* "Product of the Year" award in 2000 for the introduction of POLYREX EM grease.

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.

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.

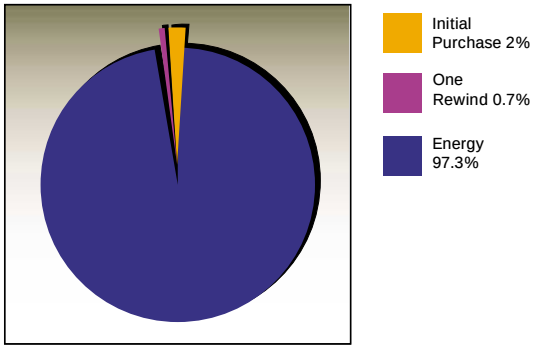
Energy Savings: Another Value of Baldor Motors

Why is Energy Efficiency Important?

Electric motor-driven systems used in industrial processes consumed 290 billion kWh, or 64% of all electricity sold in the United States, 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.

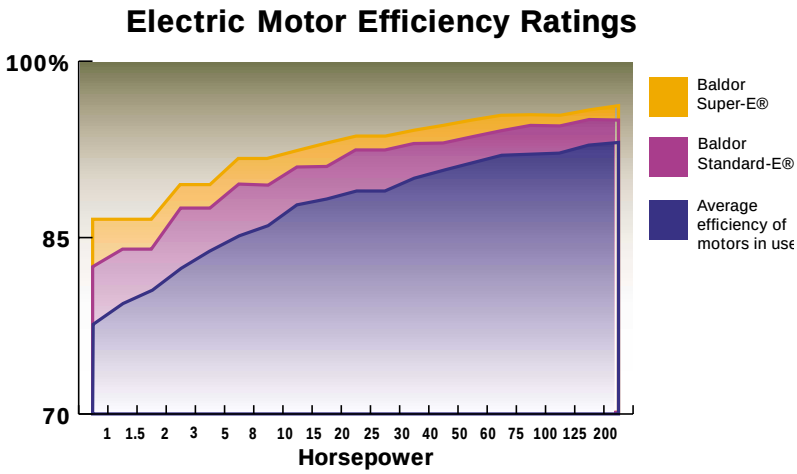
Purchase Price is Only a Small Piece of the Pie

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

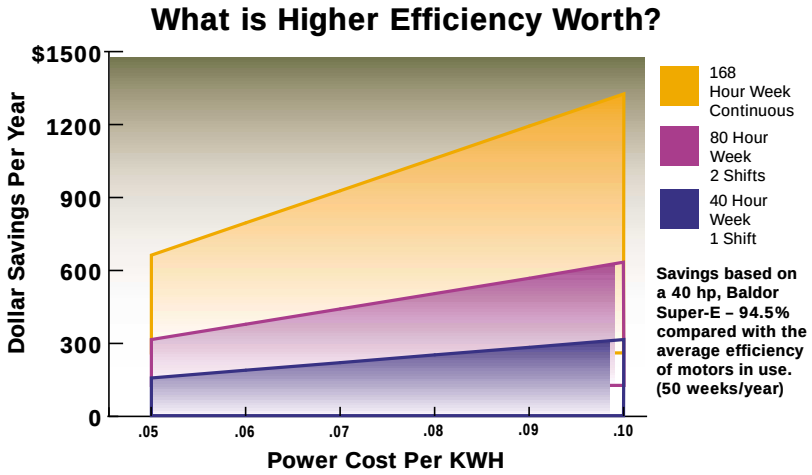
Baldor's line of Super-E motors offers customers the highest level of overall efficiencies available from any motor manufacturer.



Save-Plus™ Software Makes Calculating Payback Easy

In order to make payback calculations easier for customers, Baldor developed Save-Plus™ software. Save-Plus helps calculate energy cost and energy savings for motors, as well as payback timeframes. A popular feature of Save-Plus 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.

Save-Plus is available as a download through Baldor's award-winning Web site (www.baldor.com/support/index.asp,) as well as a stand-alone 3.5" diskette or on Baldor's popular CD-ROM, both available from the Baldor Literature Hotline (1-800-828-4920).



Understanding UL Classifications, Groups and Divisions

Classifications

UL classification for hazardous location motors is based on the atmosphere in which the motor will be operating under normal conditions. There are three major classifications, each with unique atmospheric conditions:

- **Class I** for gases, vapors and/or flammable liquids
- **Class II** for combustible dusts
- **Class III** for ignitable fibers and/or filings

Groups

Each classification and atmosphere is broken into various groups. Groups are determined by ignitable volatility or explosiveness, and the concentration of the material present. The highest combustible atmosphere is Group A. Subsequent alphabetical Group designations are progressively less volatile, i.e. Group B, then Group C, etc. Following is a partial listing of atmospheres that relate to each Group:

- **Group A:** Acetylene
- **Group B:** Hydrogen, butadiene, ethylene oxide and propylene oxide, and equivalent hazardous material
- **Group C:** Cyclopropane, ethyl ether, ethylene and equivalent hazardous materials
- **Group D:** Acetone, alcohol, ammonia, benzene, benzol, butane, gasoline, hexane, lacquer solvent vapors, naphtha, natural gas, propane and equivalent hazardous materials
- **Group E:** Metal dusts including aluminum, magnesium and their alloys, and other equivalent hazardous materials
- **Group F:** Carbon black, charcoal, coal or coke dusts
- **Group G:** Flour, starch, grain, combustible plastics and chemical dusts

Divisions

Divisions are determined by the atmosphere that is present under normal operating conditions. **Division 1** relates to an atmosphere that normally contains highly combustible material. **Division 2** involves a normal atmosphere that is non-combustible, but can change due to an accident or equipment malfunction.

CAUTION

Motors misapplied in hazardous environments can cause a fire or explosion resulting in destruction of property, serious injury or death. Only the end user or a qualified underwriter is to identify and select the proper class, group, division, and temperature code motor to meet the requirements of each installation. Baldor personnel, agents and distributors can advise what listings and approvals Baldor motors carry, but cannot evaluate nor recommend what motors may be suitable for use in hazardous environments.

Temperature Ratings and Code Numbers:

The circled code numbers below are used to identify the explosion-proof motor's Class, Group and Temperature Rating for which the motor is approved. You will find these numbers next to motor catalog numbers in this brochure.

Surface temperatures of Baldor Explosion-Proof Motors will not exceed the following UL and CSA maximums under fault conditions.

A. Class I Group D listings only.

① Motors with Class B insulation will not exceed surface temperatures of 230°C (446°F) equivalent Code T2C.

⑥ Motors with Class F insulation 1.0 S.F. will not exceed surface temperatures of 260°C (536°F) equivalent to Code T2B.

⑨ Motors with Class F insulation and 1.15 S.F. will not exceed surface temperatures of 260°C (500°F) equivalent to Code T2B.

B. Class I, Group C & D listings only.

⑤ Motors with Class F insulation and 1.15 S.F. will not exceed surface temperatures of 260°C (500°F) equivalent to Code T3C.

⑨ Motors with Class F insulation and 1.15 S.F. will not exceed surface temperatures of 160° (320°F) equivalent to Code T3C.

C. Class I Group D, Class II Group F & G listings.

③ Shunt wound DC motors, 182 through 215 frame sizes, 1/2 through 3 hp, will not exceed surface temperature of 165°C (329°F), equivalent to Code T3B.

⑦ Fractional hp motors in Baldor type 35 will not exceed surface temperatures of 135°C (275°F) equivalent to Code T4.

⑦ Frames 364T through 449T will not exceed surface temperatures of 135°C (275°F) equivalent to Code T4.

⑧ Fractional hp motors in Baldor type 34, and 1 hp motors and greater built in Baldor type 35, frames 143T through 326T will not exceed surface temperature of 160°C (320°F) equivalent to Code T3C.

⑧ Fractional hp AC motors in Baldor type 34, and permanent magnet DC motors in Baldor type 34 and 35, will not exceed surface temperature of 160° (320°F) equivalent to Code T3C.

D. Class I, Group C & D, Class II, Group F & G listings.

② Baldor frames 182T through 449T will not exceed surface temperatures of 160°C (320°F) equivalent to Code T4.

Contact your local Baldor office for other Class and Group listings.

Single Phase and Three Phase Explosion-Proof Motors with Rigid Base

These motors are ideal for a wide variety of applications where hazardous fumes or dust may be present. Available from stock in 1/4 hp though 300 hp, in NEMA frames 48 through 449T. All motors are UL and CSA approved for Class I – Group D and Class II – Group F and G, and are rated at a 1.0 Service Factor. Certain ratings (designated with ② next to catalog number) also approved for Class 1, Group C use.

Performance Data, Single Phase

					Amps @ High V		Full Load	Efficiency %			Power Factor %			Bearings			
Hp	kW	RPM	Frame	Catalog No.	Full Load	Locked Rotor	Torque Lb. Ft.	1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE	Volt Code	"C" Dim.
0.25	0.19	1725	48	L4003A⑧	2.5	10.5	0.76	42.0	50.0	55.0	42	50	57	6203	6203	A	12.85
0.25	0.19	1725	56	L5000A⑧	2.5	9.95	0.75	40.0	50.0	55.0	40	49	57	6203	6203	B	14.22
0.33	0.25	3450	48	L4005A⑧	3.0	14.0	0.52	46.9	53.8	55.0	47	56	68	6203	6203	B	12.85
0.33	0.25	1725	48	L4006A⑧	3.0	13.0	1.0	41.0	52.0	60.0	41	52	60	6203	6203	A	12.85
0.33	0.25	1725	56	L5001A⑧	3.0	13.0	1.0	41.0	52.0	60.0	41	52	60	6203	6203	A	13.22
0.33	0.25	1140	56	L5002A⑦	3.4	13.0	0.75	41.5	50.1	54.0	42	50	56	6205	6203	B	14.30
0.50	0.37	3450	56	L5003A⑧	3.7	18.5	0.75	49.7	57.4	57.0	49	61	71	6203	6203	B	13.22
0.50	0.37	1725	48	L4009A⑧	3.7	19.41	1.5	55.2	62.0	64.0	48	59	66	6203	6203	A	13.85
0.50	0.37	1725	56	L5004A⑧	3.7	19.41	1.5	55.2	62.0	64.0	48	59	66	6203	6203	A	14.22
0.50	0.37	1140	56	L5005A⑦	4.0	19.0	2.25	57.0	62.3	59.0	41	49	63	6205	6203	B	15.17
0.75	0.56	3450	56	L5006A⑦	4.9	28.3	1.13	50.0	58.0	62.0	60	70	75	6205	6203	B	14.30
0.75	0.56	1725	56	L5007A⑦	5.3	34.0	2.25	58.2	65.4	66.0	45	56	68	6205	6203	B	15.17
0.75	0.56	1140	56	L5022①	5.7	24.3	3.4	57.6	61.8	59.5	46	59	74	6205	6203	B	16.04
1	0.75	3450	56	L5009A⑦	6.0	35.0	1.5	65.0	67.0	66.0	64	75	81	6205	6203	B	15.17
1	0.75	1725	56	L5023A①	6.5	37.0	3.0	63.0	66.8	67.0	53	65	73	6205	6203	B	15.17
1	0.75	1725	143T	L5023T①	6.4	35.0	3.0	67.6	70.0	67.0	53	67	73	6205	6203	A	15.23
1	0.75	1140	184	L5026⑧	7.0	34.0	4.6	62.6	68.5	67.0	48	59	67	6206	6205	A	16.93
1.5	1.1	3450	143T	L5030T⑧	7.5	42.0	2.3	65.3	68.4	70.0	64	73	82	6205	6203	A	15.23
1.5	1.1	1725	184	L5013⑧	9.5	68.0	4.5	66.9	72.6	70.0	50	61	70	6206	6205	B	16.93
2	1.5	3450	145T	L5031T⑧	11.5	77.5	3.0	64.2	70.5	74.0	65	75	82	6205	6203	A	16.11
2	1.5	1725	182T	L5027T①	11.0	61.0	6.0	72.3	74.3	75.0	58	69	81	6206	6205	B	17.43
3	2.2	3450	184T	L5028T①	14.5	86.0	4.5	71.0	73.5	76.0	83	88	87	6206	6205	B	17.43
3	2.2	1725	215	L5018⑧	15.0	90.0	9.0	75.0	79.1	79.0	61	72	77	6307	6206	B	19.49
5	3.7	1725	215	L5020①	21.0	139	15.1	84.1	85.7	84.0	87	91	92	6307	6206	C	19.90

See page 17 for Layout drawing.

Performance Data, Three Phase

					Amps @ High V		Full Load	Efficiency %			Power Factor %			Bearings			
Hp	kW	RPM	Frame	Catalog No.	Full Load	Locked Rotor	Torque Lb. Ft.	1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE	Volt Code	"C" Dim.
0.25	0.19	1725	48	M6002A⑧	0.65	3.45	0.75	55.6	62.3	63.0	39	50	56	6203	6203	E	12.85
0.33	0.25	1725	56	M7002A⑧	0.8	4.4	1.0	59.0	65.0	67.0	40	50	57	6203	6203	E	13.22
0.33	0.25	1140	56	M7003A⑦	0.8	4.1	1.5	58.0	64.0	70.0	39	48	57	6205	6203	E	14.30
0.50	0.37	3450	56	M7005A⑧	1.1	6.0	0.75	56.3	64.0	68.0	44	56	63	6203	6203	E	13.22
0.50	0.37	1725	48	M6007A⑧	1.0	6.7	1.5	65.0	71.7	74.0	39	51	63	6203	6203	E	12.85
0.50	0.37	1725	56	M7006A⑧	1.0	6.7	1.5	65.0	71.7	74.0	39	51	63	6203	6203	E	13.22
0.50	0.37	1725	56	M7006-5⑧	0.9	5.9	1.5	59.0	66.7	74.0	41	52	60	6205	6203	H	14.30
0.50	0.37	1140	56	M7007A⑦	1.2	5.8	2.25	57.0	64.0	70.0	37	47	55	6205	6203	E	14.30
0.75	0.56	3450	56	M7009A⑧	1.3	7.6	1.2	70.6	73.6	75.0	58	67	73	6203	6203	E	13.22
0.75	0.56	1725	56	M7010A⑧	1.5	10	2.25	69.7	74.7	73.0	42	55	58	6203	6203	E	14.22
0.75	0.56	1725	56	M7010-5⑧	1.2	6.7	2.3	64.0	70.4	76.0	46	58	69	6205	6203	H	14.30
0.75	0.56	1140	56	M7031A⑦	1.4	8.0	3.4	71.0	75.0	77.0	42	55	63	6205	6203	E	15.17
0.75	0.56	1140	143T	M7031TA⑦	1.4	8.0	3.4	71.0	75.0	77.0	42	55	63	6205	6203	E	15.23
1	0.75	3450	56	M7013⑧	1.8	11.0	1.5	72.1	76.8	75.5	53	68	71	6203	6203	E	13.22
1	0.75	3450	56	M7013-5⑧	1.2	8.8	1.5	72.1	76.8	75.5	53	68	71	6203	6203	H	13.22
1	0.75	1725	56	M7014⑧	1.7	11.5	3.0	73.6	77.8	77.0	47	59	74	6205	6203	E	14.30

Volt Code: A=115/208-230, B=115/230, C=230, E=208-230/460, H=575 volts.
Circled number next to Catalog number indicates the motor's temperature rating, approval class and group. See page 10.
Data subject to change without notice. Contact Baldor for certified data.
See page 17 for Layout drawing.

Performance Data, Three Phase

Hp	kW	RPM	Frame	Catalog No.	Amps @ High V		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		Volt Code	"C" Dim.
					Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE		
1	0.75	1725	56	M7014-5⑧	1.4	9.2	3.0	73.6	77.8	75.0	47	59	74	6205	6203	H	14.30
1	0.75	1750	143T	EM7114T-C②	1.4	14.0	3.0	84.0	85.8	85.5	56	70	78	6205	6203	F	16.28
1	0.75	1740	143T	M7114T	1.4	10.5	3.0	81.4	83.8	82.5	59	72	80	6205	6203	F	16.28
1	0.75	1740	143T	M7014T⑧	1.4	9.7	3.0	81.2	82.9	82.5	63	74	80	6205	6203	F	14.36
1	0.75	1740	143T	M7014T-5⑧	1.2	7.8	3.0	81.2	82.9	82.5	63	74	80	6205	6203	H	14.36
1	0.75	1725	182	M7015⑧	1.7	11.5	3.0	73.6	77.8	77.0	47	59	74	6205	6203	E	15.23
1	0.75	1140	56	M7032①	1.7	8.0	4.5	71.1	74.1	75.5	47	58	69	6205	6203	F	15.17
1	0.75	1150	145T	M7032T①	1.7	9.0	4.5	79.6	81.4	80.0	52	65	72	6205	6203	F	15.23
1.5	1.1	3470	143T	M7018T⑧	1.9	17.2	2.29	80.5	83.3	82.5	72	83	87	6205	6203	F	15.23
1.5	1.1	3470	143T	M7018T-5⑧	1.5	13.8	2.29	80.5	83.3	82.5	72	83	87	6205	6203	H	15.23
1.5	1.1	1725	56	M7034⑧	2.5	17.0	4.5	73.6	77.1	78.5	50	63	72	6205	6203	E	14.30
1.5	1.1	1740	145T	EM7134T-C②	2.0	15.6	4.5	86.6	87.4	86.5	65	76	82	6205	6203	F	16.28
1.5	1.1	1740	145T	M7134T	2.1	20.0	4.5	86.4	87.7	84.0	57	71	79	6205	6203	F	16.28
1.5	1.1	1740	145T	M7034T⑧	2.1	16.0	4.5	82.7	84.3	84.0	60	72	79	6205	6203	F	15.23
1.5	1.1	1740	145T	M7034T-5⑧	1.7	12.8	4.5	82.7	84.3	84.0	60	72	79	6205	6203	H	15.23
1.5	1.1	1725	184	M7019⑧	2.5	17.0	4.5	73.6	77.1	78.5	50	63	72	6205	6203	E	15.23
1.5	1.1	1160	182T	M7020T⑧	2.6	13.4	6.8	82.6	85.3	85.5	43	56	64	6206	6205	F	17.42
2	1.5	3450	145T	M7071T⑧	2.6	24.3	3.0	81.2	83.8	84.0	73	80	88	6205	6203	F	15.23
2	1.5	3450	145T	M7071T-5⑧	2.1	19.5	3.0	81.2	83.8	84.0	73	80	88	6205	6203	H	15.23
2	1.5	1725	56	M7037⑧	3.1	22.0	6.0	82.2	83.7	82.5	59	72	77	6205	6203	E	15.17
2	1.5	1740	145T	EM7137T-C②	2.7	21.2	6.0	85.9	87.1	86.5	62	74	80	6205	6203	F	16.28
2	1.5	1740	145T	M7137T	2.8	22.7	6.0	83.2	85.2	84.0	57	70	79	6205	6203	F	16.28
2	1.5	1740	145T	M7037T⑧	2.8	21.0	6.0	83.8	85.2	84.0	61	73	79	6205	6203	F	15.23
2	1.5	1740	145T	M7037T-5⑧	2.2	16.8	6.0	83.8	85.2	84.0	61	73	79	6205	6203	H	15.23
2	1.5	1725	184	M7023⑧	3.1	22.0	6.0	82.2	83.7	82.5	59	72	77	6205	6203	E	15.23
2	1.5	1160	184T	M7041T⑧	3.3	18.2	9.13	84.8	86.6	86.5	49	60	67	6206	6205	F	18.92
3	2.2	3475	145T	M7075T①	3.6	38.6	4.64	84.8	86.7	85.5	78	88	91	6205	6203	F	17.48
3	2.2	3450	184	M7026⑧	3.8	32.9	4.6	83.0	84.3	82.5	74	83	89	6205	6203	E	15.23
3	2.2	3495	182T	M7026T⑧	3.5	39.0	4.6	83.0	85.7	85.5	87	93	96	6206	6205	F	17.42
3	2.2	1750	182T	M7042T⑧	4.1	34.6	9.01	86.4	88.1	87.5	58	70	78	6206	6205	F	17.42
3	2.2	1750	182T	M7042T-5⑧	3.3	25.9	8.9	86.1	87.8	87.5	59	71	78	6206	6205	H	17.42
3	2.2	1760	182T	EM7142T-C②	4.0	32.0	9.0	89.1	90.0	88.5	58	71	80	6206	6205	F	17.56
3	2.2	1750	182T	M7142T⑧	4.1	32.4	8.9	86.1	87.8	87.5	59	71	78	6206	6205	F	17.56
3	2.2	1725	213	M7027⑧	4.5	26.0	9.0	74.9	78.8	80.0	53	66	75	6307	6206	E	16.44
3	2.2	1160	213T	M7036T⑧	4.8	28.4	13.5	86.1	87.7	87.5	48	59	66	6307	6206	F	19.57
5	3.7	3465	184T	M7072T⑧	5.6	58.3	7.6	86.3	87.7	87.5	88	93	93	6206	6205	F	18.12
5	3.7	3465	184T	M7072T-5⑧	5.5	46.6	7.6	86.3	87.7	87.5	88	93	93	6206	6205	H	18.12
5	3.7	1750	184T	M7044T⑧	6.7	53.0	15.0	87.3	88.4	87.5	63	74	80	6206	6205	F	17.37
5	3.7	1750	184T	M7044T-5⑧	5.2	41.0	15.0	87.3	88.4	87.5	63	74	80	6206	6205	H	17.37
5	3.7	1750	184T	EM7144T-C②	6.5	54.0	15.0	89.7	90.7	88.5	62	74	80	6206	6205	F	17.58
5	3.7	1750	184T	M7144T⑧	6.7	51.2	15.0	87.3	88.4	87.5	63	74	80	6206	6205	F	17.56
5	3.7	1725	215	M7030⑧	7.0	43	15.2	81.1	83.5	84.0	59	71	80	6307	6206	E	18.06
5	3.7	1160	215T	M7040T⑧	8.1	53.6	22.7	85.6	87.6	87.5	45	57	65	6307	6206	F	20.32
7.5	5.6	3450	184T	M7073T①	8.3	80.9	11.5	89.6	89.6	88.5	92	95	96	6206	6205	F	18.92
7.5	5.6	3500	213T	M7045T⑧	8.9	73.8	11.3	87.4	89.2	88.5	81	87	89	6307	6206	F	19.57
7.5	5.6	1760	213T	M7047T⑧	10.2	69.1	22.2	87.0	89.0	89.5	61	72	76	6307	6206	F	20.32
7.5	5.6	1760	213T	M7047T-5⑧	8.2	58.0	22.2	87.7	89.7	89.5	57	69	76	6307	6206	H	20.32
7.5	5.6	1770	213T	EM7147T-C②	10.0	70.0	22.2	90.5	91.9	91.0	62	73	78	6307	6206	F	19.91
7.5	5.6	1760	213T	M7147T⑧	10.2	72.6	22.2	87.7	89.7	89.5	57	69	76	6307	6206	F	19.90
7.5	5.6	1185	254T	M7048T⑧	11.2	75.7	33.0	87.8	90.1	89.5	51	62	69	6309	6208	F	25.50
10	7.5	3480	215T	M7074T①	11.6	99.2	15.0	88.1	89.5	89.5	82	88	90	6307	6206	F	20.07
10	7.5	3480	215T	M7174T⑧	11.6	99.2	15.0	88.1	89.5	89.5	82	88	90	6307	6206	F	19.90
10	7.5	1770	215T	M7070T①	13.5	95.2	29.5	88.2	89.9	89.5	58	70	76	6307	6206	F	20.82
10	7.5	1760	215T	EM7170T-C②	12.5	91.0	30.0	91.0	91.9	91.0	67	78	83	6307	6206	F	19.91
10	7.5	1760	215T	M7170T⑧	14.2	100	29.9	87.8	89.6	89.5	54	67	73	6307	6206	F	19.90
10	7.5	1760	215T	M7170T-5⑧	11.4	80.0	29.9	87.8	89.6	89.5	54	67	73	6307	6206	H	19.90
10	7.5	1175	256T	M7065T⑧	14.4	91.5	44.5	88.1	89.6	89.5	55	67	73	6309	6208	F	25.50

Volt Code: E= 208-230/460, F= 230/460, H= 575 volts.
Circled number next to Catalog number indicates the motor's temperature rating, approval class and group. See page 10.
Data subject to change without notice. Contact Baldor for certified data.
See page 17 for Layout drawing. Shaded ratings are cast-iron frames.

Performance Data, Three Phase

Hp	kW	RPM	Frame	Catalog No.	Amps @ High V Full Load	Amps @ High V Locked Rotor	Full Load Torque Lb. Ft.	Efficiency % 1/2	Efficiency % 3/4	Efficiency % Full Load	Power Factor % 1/2	Power Factor % 3/4	Power Factor % Full Load	Bearings DE	Bearings ODE	Volt Code	"C" Dim.
15	11.2	3525	254T	M7053T⑧	17.1	116	22.3	87.7	89.5	90.2	84	90	91	6309	6208	F	25.50
15	11.2	1765	254T	EM7054T-C②	18.0	125	45.0	92.1	93.0	92.4	71	81	84	6309	6208	F	25.50
15	11.2	1770	254T	M7054T⑧	18.0	131	44.1	91.1	92.4	91.0	69	79	84	6309	6208	F	25.50
15	11.2	1770	254T	M7054T-5⑧	14.4	105	44.1	91.1	92.4	91.0	69	79	84	6309	6208	H	25.50
15	11.2	1170	284T	M7057T⑧	19.5	130	67.5	87.0	89.2	90.2	66	75	80	6311	6309	F	28.61
20	14.9	3525	256T	M7059T⑧	23.0	167	29.8	89.0	90.1	90.2	83	87	90	6309	6208	F	25.50
20	14.9	1765	256T	EM7056T-C②	24.0	171	60.0	92.9	93.5	93.0	67	79	84	6309	6208	F	25.50
20	14.9	1760	256T	M7056T⑧	24.0	168	59.3	90.2	91.6	91.0	71	80	84	6309	6208	F	25.50
20	14.9	1760	256T	M7056T-5⑧	19.2	134	59.3	90.2	91.6	91.0	71	80	84	6309	6208	H	25.50
20	14.9	1175	286T	M7079T⑧	25.5	159	89.6	88.6	89.9	90.2	69	78	82	6311	6309	F	28.61
25	18.7	3540	284TS	M7063T⑧	28.5	196	37.1	85.9	88.9	91.0	83	89	91	6311	6309	F	27.24
25	18.7	1780	284T	EM7058T-C②	30.5	188	74.0	93.4	93.9	93.6	69	78	82	6311	6309	F	28.61
25	18.7	1775	284T	M7058T⑧	30.8	188	74.4	90.0	91.8	92.4	71	80	84	6311	6309	F	28.61
25	18.7	1775	284T	M7058T-5⑧	24.6	150	74.4	90.0	91.8	92.4	71	80	84	6311	6309	H	28.61
25	18.7	1160	324T	M7082T⑧	31.0	208	111	91.5	92.1	91.7	73	80	82	6312	6311	F	32.12
30	22.4	3525	286TS	M7083T⑧	34.0	231	45.0	89.9	91.3	91.0	86	90	92	6311	6309	F	27.24
30	22.4	1780	286T	EM7060T-C②	36.0	214	90.0	93.8	94.4	94.1	69	79	84	6311	6309	F	28.61
30	22.4	1770	286T	M7060T⑧	36.0	208	90.0	90.1	91.7	92.4	73	81	84	6311	6309	F	28.61
30	22.4	1770	286T	M7060T-5⑧	28.8	166	90.0	90.1	91.7	92.4	73	81	84	6311	6309	H	28.61
30	22.4	1160	326T	M7080T⑧	37.0	266	134	91.3	92.4	91.7	71	79	83	6312	6311	F	32.12
40	30	3530	324TS	M7067T⑧	45.0	285	59.5	90.9	91.8	91.7	84	88	90	6312	6311	F	30.50
40	30	1775	324T	EM7062T-C②	46.0	320	118	93.9	94.6	94.5	73	81	86	6312	6311	F	32.12
40	30	1775	324T	M7062T⑧	47.0	322	118	93.1	94.1	93.0	74	82	86	6312	6311	F	32.12
40	30	1775	324T	M7062T-5⑧	37.6	258	118	93.1	94.1	93.0	74	82	86	6312	6311	H	32.00
40	30	1180	364T	M7084T⑧	49.0	316	178	91.8	93.1	93.0	70	79	82	6313	6312	F	33.25
50	37	3540	326TS	M7081T⑧	56.0	407	74.2	91.2	92.4	92.4	82	88	90	6312	6311	F	30.50
50	37	1775	326T	EM7064T-C②	57.0	392	149	94.4	94.9	94.5	73	82	87	6312	6311	F	32.12
50	37	1775	326T	M7064T⑧	60.0	398	149	91.4	92.9	93.0	75	83	86	6312	6311	F	32.12
50	37	1180	365T	M7085T⑦	61.0	421	222	92.3	93.1	93.0	70	79	83	6313	6312	F	33.25
60	45	1780	364T	EM7066T-C②	69.0	447	177	94.7	95.2	94.5	74	82	86	6313	6312	F	33.25
60	45	1780	364T	M7066T⑦	69.0	441	177	92.2	93.5	93.6	75	83	86	6313	6312	F	33.25
60	45	1185	404T	M7086T⑦	70.0	446	266	93.1	93.7	93.6	76	84	86	6316	6313	F	37.25
75	56	1780	365T	M7068T②	85.0	608	222	93.6	94.5	94.1	78	85	88	6313	6312	F	33.25
75	56	1185	405T	M7087T⑦	88.0	575	332	93.8	94.2	93.6	75	83	85	6316	6313	F	38.75
100	75	1780	405T	M7090T②	113	703	295	94.8	95.2	94.5	79	85	87	6316	6313	F	38.75
125	93	1780	444T	M74124T-4②	143	894	370	94.5	95.1	94.5	79	85	86	6319	6314	G	44.25
150	112	1780	445T	M74154T-4②	167	1178	442	95.6	96.0	95.0	80	87	88	6319	6314	G	44.25
200	149	1785	447T	M74204T-4②	224	1448	588	95.0	95.5	95.0	80	88	89	6319	6314	G	52.75
250	187	1785	447T	M74254T-4②	284	1830	736	94.8	95.1	95.0	84	88	89	6319	6314	G	52.75
300	224	1785	449T	M74304T-4②	328	2241	883	95.1	95.8	95.0	80	88	90	6319	6314	G	54.25

Volt Code: E=208-230/460, E1= 230/460 volts usable at 208 volts, F=230/460, G=460 Volt, H=575 volts.
Circled number next to Catalog number indicates the motor's temperature rating, approval class and group. See page 10.
Data subject to change without notice. Contact Baldor for certified data.
See page 17 for Layout drawing.
Shaded ratings are cast-iron frames.

50 Hz. Explosion-Proof Motors

Performance Data, IP54, C-Face

Hp	kW	RPM	Frame	Catalog No.	Amps @ High V Full Load	Amps @ High V Locked Rotor	Full Load Torque Lb. Ft.	Efficiency % 1/2	Efficiency % 3/4	Efficiency % Full Load	Power Factor % 1/2	Power Factor % 3/4	Power Factor % Full Load	Bearings DE	Bearings ODE	Volt Code	"C" Dim.
0.33	0.25	1425	56C	CL5001A-50⑧	2.6	25.0	1.2	50.6	58.3	59.5	46	56	68	6203	6203	J	14.22
0.50	0.37	1425	56C	CL5004A-50⑧	3.6	17.0	1.8	62.2	67.5	62.0	57	69	76	6203	6203	J	15.22
0.50	0.37	1425	56C	CM7006-50⑧	1.0	6.03	1.8	64.2	70.0	74.0	46	60	69	6203	6203	K	14.22
0.75	0.56	1425	56C	CL5007A-50①	4.8	23.0	2.7	66.6	71.4	70.0	56	68	76	6205	6203	J	15.17
0.75	0.56	1425	56C	CM7010-50⑧	1.4	10.0	2.7	68.5	73.5	75.5	45	57	76	6203	6203	K	15.22
1	0.75	2850	56C	CM7013-50⑧	1.7	12.2	1.8	71.9	77.0	80.0	53	65	74	6203	6203	K	14.22
1	0.75	1425	56C	CL5023-50⑧	6.2	33.0	3.6	67.0	69.0	68.0	63	75	82	6205	6203	J	16.05
1	0.75	1425	56C	CM7014-50⑧	1.8	11.0	3.7	75.4	76.6	74.0	55	68	76	6203	6203	K	15.22
1.5	1.1	2850	143TC	CM7018T-50⑧	2.2	15.0	2.8	75.6	79.1	81.5	67	79	88	6205	6203	K	14.36
1.5	1.1	1425	143TC	CM7034T-50⑧	2.2	16.0	5.6	76.8	79.5	81.5	59	72	81	6205	6203	K	15.23
2	1.5	2850	145TC	CM7071T-50⑧	2.8	20.5	3.7	76.6	80.0	80.0	73	83	89	6205	6203	K	15.23
2	1.5	1425	145TC	CM7037T-50⑧	3.0	20.0	7.4	81.5	82.9	81.5	58	71	79	6205	6203	K	16.10
2	1.5	1425	182TC	CL5027T-50①	11.5	74.0	7.4	76.0	78.0	77.0	56	68	78	6206	6205	J	20.89

Three Phase 1.15 Service Factor Explosion-Proof Motors

Baldor 1.15 Service Factor Explosion Proof motors are designed and built for on- and off-shore drill rig service, bulk fuel terminals, and transfer stations where a volatile gaseous or vapor atmosphere combines with salt water conditions to provide a unique challenge. These motors meet Class I specifications, with extra corrosion resistance against seawater and sea air. A 1.15 Service Factor provides for temporary overload capability. Explosion-proof motors are available from stock, 3 hp to 100 hp, in rigid base and C-face.

Performance Data, Rigid Base

Hp	kW	RPM	Frame	Catalog No.	Amps @ High V Full Load	Amps @ High V Locked Rotor	Full Load Torque Lb. Ft.	Efficiency % 1/2	Efficiency % 3/4	Efficiency % Full Load	Power Factor % 1/2	Power Factor % 3/4	Power Factor % Full Load	Bearings DE	Bearings ODE	Volt Code	"C" Dim.
3	2.2	1750	182T	M7042T-I⑤	4.1	34.6	9.01	86.4	88.1	87.5	58	70	78	6206	6205	F	18.27
5	3.7	1750	184T	M7044T-I⑤	6.7	53	15	87.3	88.4	87.5	63	74	80	6206	6205	F	18.27
7.5	5.6	1760	213T	M7047T-I⑤	10.2	69.1	22.2	87.0	89.0	89.5	61	72	76	6307	6206	F	20.32
10	7.5	1760	215T	M7170T-I⑤	14.2	100	29.9	87.8	89.6	89.5	54	67	73	6307	6206	F	20.03
15	11.2	1770	254T	M7054T-I⑤	18	131	44.1	91.1	92.4	91.0	69	79	84	6309	6208	F	25.50
20	14.9	1760	256T	M7056T-I⑤	24	168	59.3	90.2	91.6	91.0	71	80	84	6309	6208	F	25.50
25	18.7	1775	284T	M7058T-I⑤	30.8	188	74.4	90.0	91.8	92.4	71	80	84	6311	6309	F	28.61
30	22.4	1770	286T	M7060T-I⑤	36	208	90	90.1	91.7	92.4	73	81	84	6311	6309	F	28.61
40	30	1775	324T	M7062T-I⑤	47	322	118	93.1	94.1	93.0	74	82	86	6312	6311	F	32.00
50	37	1775	326T	M7064T-I⑤	60	398	149	91.4	92.9	93.0	75	83	86	6312	6311	F	32.00
60	45	1780	364T	M7066T-I⑤	69	441	177	92.2	93.5	93.6	75	83	86	6313	6312	F	33.25
75	56	1780	365T	M7068T-I⑤	85	608	222	93.6	94.5	94.1	78	85	88	6313	6312	F	33.25
100	75	1780	405T	M7090T-I⑤	113	703	295	94.8	95.2	94.5	79	85	87	6316	6313	F	38.75

Performance Data, C-Face

Hp	kW	RPM	Frame	Catalog No.	Amps @ High V Full Load	Amps @ High V Locked Rotor	Full Load Torque Lb. Ft.	Efficiency % 1/2	Efficiency % 3/4	Efficiency % Full Load	Power Factor % 1/2	Power Factor % 3/4	Power Factor % Full Load	Bearings DE	Bearings ODE	Volt Code	"C" Dim.
3	2.2	1750	182TC	CM7042T-I⑤	4.1	34.6	9.01	86.4	88.1	87.5	58	70	78	6206	6205	F	19.59
5	3.7	1750	184TC	CM7044T-I⑤	6.7	53	15	87.3	88.4	87.5	63	74	80	6206	6205	F	19.59
7.5	5.6	1760	213TC	CM7047T-I⑤	10.2	69.1	22.2	87.0	89.0	89.5	61	72	76	6307	6206	F	21.07
10	7.5	1760	215TC	CM7170T-I⑤	14.2	100	29.9	87.8	89.6	89.5	54	67	73	6307	6206	F	20.77
15	11.2	1770	254TC	CM7054T-I⑤	18	131	44.1	91.1	92.4	91.0	69	79	84	6309	6208	F	26.00
20	14.9	1760	256TC	CM7056T-I⑤	24	168	59.3	90.2	91.6	91.0	71	80	84	6309	6208	F	26.00
25	18.7	1775	284TC	CM7058T-I⑤	30.8	188	74.4	90.0	91.8	92.4	71	80	84	6311	6309	F	28.61
30	22.4	1770	286TC	CM7060T-I⑤	36	208	90	90.1	91.7	92.4	73	81	84	6311	6309	F	28.61
50	37.0	1775	326TC	CM7064T-I⑤	60	398	149	91.4	92.9	93.0	75	83	86	6312	6311	F	32.00

Volt Code: F=230/460, J=110/220, 50 HZ, K= 220/380/440, 50 HZ.
Circled number next to Catalog number indicates the motor's temperature rating, approval class and group. See page 10.
See page 17 and 18 for Layout drawings.

Explosion-Proof C-Face Motors

These motors carry the same explosion-proof specs as Baldor's rigid base motors, with NEMA C-face mounting configurations. Available from stock in single and three phase, 1/3 hp through 50 hp, in NEMA frames 56C through 326TC. All motors are UL and CSA approved for Class I – Group D and Class II – Group F and G, and are rated at a 1.0 Service Factor.

Performance Data, Single Phase

Hp	kW	RPM	Frame	Catalog No.	Amps @ High V Full Load	Amps @ High V Locked Rotor	Full Load Torque Lb. Ft.	Efficiency % 1/2	Efficiency % 3/4	Efficiency % Full Load	Power Factor % 1/2	Power Factor % 3/4	Power Factor % Full Load	Bearings DE	Bearings ODE	Volt Code	"C" Dim.
0.33	0.25	1725	56C	CL5001A⑧	3.0	13.0	1.0	41.0	52.0	60.0	41	52	60	6203	6203	A	13.22
0.33	0.25	1725	56C	VL5001A⑧	3.0	13.0	1.0	41.0	52.0	60.0	41	52	60	6203	6203	A	13.22
0.33	0.25	1140	56C	VL5002A⑦	3.4	26.0	1.5	41.5	50.1	54.0	42	50	56	6205	6203	B	14.30
0.50	0.37	3450	56C	CL5003A⑧	3.7	18.5	0.75	49.7	57.4	57.0	49	61	71	6203	6203	B	13.22
0.50	0.37	3450	56C	VL5003A⑧	3.7	18.5	0.75	49.7	57.4	57.0	49	61	71	6203	6203	B	13.22
0.50	0.37	1725	56C	CL5004A⑧	3.7	19.41	1.5	55.2	62.0	64.0	48	59	66	6203	6203	A	14.22
0.50	0.37	1725	56C	VL5004A⑧	3.7	19.41	1.5	55.2	62.0	64.0	48	59	66	6203	6203	A	14.22
0.50	0.37	1140	56C	VL5005A⑦	4.0	19.0	2.25	57.0	62.3	59.0	41	49	63	6205	6203	B	15.17
0.75	0.56	3450	56C	VL5006A⑦	4.9	28.3	1.13	50.0	58.0	62.0	60	70	75	6205	6203	B	14.30
0.75	0.56	1725	56C	CL5007A⑦	5.3	34.0	2.25	58.2	65.4	66.0	45	56	68	6205	6203	B	15.17
0.75	0.56	1725	56C	VL5007A⑦	5.3	34.0	2.25	58.2	65.4	66.0	45	56	68	6205	6203	B	15.17
1	0.75	3450	56C	CL5009A⑦	6.0	35.0	1.5	65.0	67.0	66.0	64	75	81	6205	6203	B	15.17
1	0.75	3450	56C	VL5009A⑦	6.0	35.0	1.5	65.0	67.0	66.0	64	75	81	6205	6203	B	15.17
1	0.75	1725	56C	CL5023A①	6.5	37.0	3.0	63.0	66.8	67.0	53	65	73	6205	6203	B	15.17
1	0.75	1725	56C	VL5023A①	6.5	37.0	3.0	63.0	66.8	67.0	53	65	73	6205	6203	B	15.17
1.5	1.1	3450	143TC	CL5030T⑧	7.5	42.0	2.3	65.3	68.4	70.0	64	73	82	6205	6203	A	16.10
1.5	1.1	1725	184C	CL5013⑧	9.5	68.0	4.5	66.9	72.6	70.0	50	61	70	6206	6205	B	16.94
1.5	1.1	1725	56C	VL5024A①	8.0	47.0	2.2	73.9	77.8	75.0	59	72	78	6205	6203	B	17.42
2	1.5	3450	143TC	CL5031T⑧	11.5	77.5	1.5	64.2	70.5	74.0	65	75	82	6205	6203	A	16.10
2	1.5	1725	182TC	CL5027T①	11.0	61.0	6.0	72.3	74.3	75.0	58	69	81	6206	6205	B	18.87
2	1.5	1725	184C	VL5027①	11.0	61.0	6.0	72.3	74.3	75.0	58	69	81	6206	6205	A	16.94
3	2.2	3450	184TC	CL5028T①	14.5	86.0	4.5	71.0	73.5	76.0	83	88	87	6206	6205	B	18.87
3	2.2	1725	215C	CL5018①	15.0	90.0	4.5	75.0	79.1	79.0	61	72	77	6307	6206	B	19.56
5	3.7	1725	215C	CL5020①	21.0	139	15.1	84.1	85.7	84.0	87	91	92	6307	6206	C	20.69

Performance Data, Three Phase

Hp	kW	RPM	Frame	Catalog No.	Amps @ High V Full Load	Amps @ High V Locked Rotor	Full Load Torque Lb. Ft.	Efficiency % 1/2	Efficiency % 3/4	Efficiency % Full Load	Power Factor % 1/2	Power Factor % 3/4	Power Factor % Full Load	Bearings DE	Bearings ODE	Volt Code	"C" Dim.
0.33	0.25	1725	56C	VM7002A⑧	0.8	4.4	1.0	59.0	65.0	67.0	40	50	57	6203	6203	E	13.22
0.50	0.37	3450	56C	CM7005A⑧	1.1	6.0	0.75	56.3	64.0	68.0	44	56	63	6203	6203	E	13.22
0.50	0.37	3450	56C	VM7005A⑧	1.1	6.0	0.75	56.3	64.0	68.0	44	56	63	6203	6203	E	13.22
0.50	0.30	1725	56C	CM7006A⑧	1.0	6.7	1.5	65.0	71.7	74.0	39	51	63	6203	6203	E	13.22
0.50	0.37	1725	56C	VM7006-5⑧	0.9	5.5	1.5	59.0	66.7	74.0	41	52	60	6205	6203	H	14.30
0.50	0.37	1725	56C	VM7006A⑧	1.0	6.7	1.5	65.0	71.7	74.0	39	51	63	6203	6203	E	13.22
0.50	0.37	1140	56C	VM7007A⑦	1.2	5.8	2.25	57.0	64.0	70.0	37	47	55	6205	6203	E	14.30
0.75	0.56	3450	56C	CM7009A⑧	1.3	7.6	1.2	70.6	73.6	75.0	58	67	73	6203	6203	E	13.22
0.75	0.56	3450	56C	VM7009A⑧	1.3	7.6	1.2	70.6	73.6	75.0	58	67	73	6203	6203	E	13.22
0.75	0.56	1725	56C	CM7010A⑧	1.5	10.0	2.25	69.7	74.7	73.0	42	55	58	6203	6203	E	14.22
0.75	0.56	1725	56C	VM7010-5⑧	1.2	6.7	2.3	64.0	70.4	76.0	46	58	69	6205	6203	H	14.30
0.75	0.56	1725	56C	VM7010A⑧	1.5	10.0	2.25	69.7	74.7	73.0	42	55	58	6203	6203	E	14.22
0.75	0.56	1140	56C	VM7031A⑦	1.4	8.0	3.4	71.0	75.0	77.0	42	55	63	6205	6203	E	15.17

Volt Code: A=115/208-230, B=115/230, C=230, E=208-230/460, H=575 volts.
Circled number next to Catalog number indicates the motor's temperature rating, approval class and group. See page 10
Contact Baldor for certified data.
See page 18 for layout drawing.

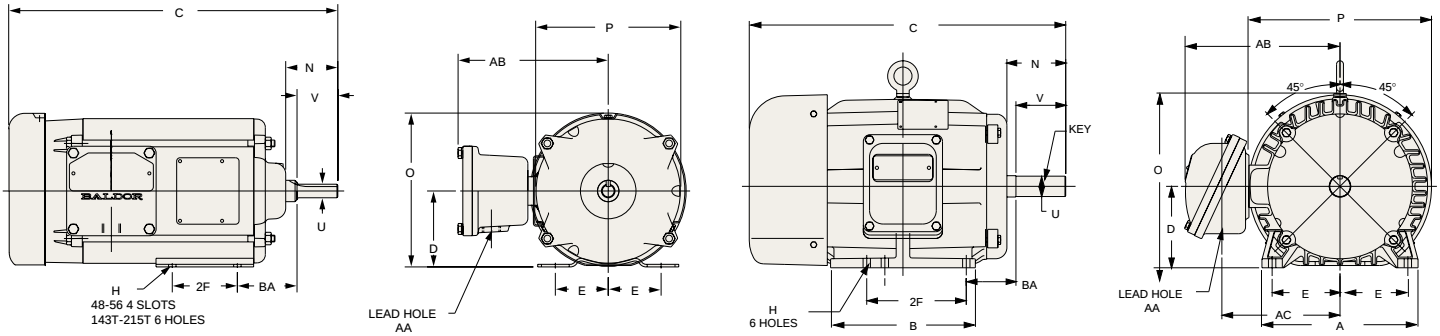
Performance Data, Three Phase

Hp	kW	RPM	Frame	Catalog No.	Amps @ High V Full Load	Amps @ High V Locked Rotor	Full Load Torque Lb. Ft.	Efficiency % 1/2	Efficiency % 3/4	Efficiency % Full Load	Power Factor % 1/2	Power Factor % 3/4	Power Factor % Full Load	Bearings DE	Bearings ODE	Volt Code	"C" Dim.
1	0.75	3450	56C	CM7013⑧	1.8	11.0	1.5	72.1	76.8	75.5	53	68	71	6203	6203	E	13.22
1	0.75	3450	56C	VM7013⑧	1.8	11.0	1.5	72.1	76.8	75.5	53	68	71	6203	6203	E	13.22
1	0.75	1725	56C	CM7014⑧	1.7	11.5	3.0	73.6	77.8	77.0	47	59	74	6205	6203	E	14.30
1	0.75	1725	56C	VM7014⑧	1.8	14.6	3.0	70.5	76.0	75.5	46	57	64	6203	6203	E	15.22
1	0.75	1725	56C	VM7014-5⑧	1.4	9.2	3.0	73.6	77.8	75.0	47	59	74	6205	6203	H	14.30
1	0.75	1740	143TC	CM7014T⑧	1.4	9.7	3.0	81.2	82.9	82.5	63	74	80	6205	6203	F	14.36
1	0.75	1725	143TC	VM7014T⑧	1.7	11.5	3.0	73.6	77.8	77.0	47	59	74	6205	6203	E	14.36
1	0.75	1725	143TC	VM7014T-5⑧	1.4	9.2	3.0	73.6	77.8	75.0	47	59	74	6205	6203	H	14.36
1	0.75	1140	56C	VM7032①	1.9	8.0	4.5	71.1	74.1	75.5	47	58	69	6205	6203	F	15.17
1.5	1.1	3470	143TC	CM7018T⑧	1.9	17.2	2.29	80.5	83.3	82.5	72	83	87	6205	6203	F	15.23
1.5	1.1	3450	143TC	VM7018T⑧	2.3	16.0	2.3	66.7	72.7	75.5	59	71	76	6205	6203	E	14.36
1.5	1.1	1725	56C	CM7034⑧	2.5	17.0	4.5	73.6	77.1	78.5	50	63	72	6205	6203	E	14.30
1.5	1.1	1725	56C	VM7034⑧	2.5	17.0	4.5	73.6	77.1	78.5	50	63	72	6205	6203	E	14.30
1.5	1.1	1740	145TC	CM7034T⑧	2.1	16.0	4.5	82.7	84.3	84.0	60	72	79	6205	6203	F	15.23
1.5	1.1	1725	145TC	VM7034T⑧	2.5	17.0	4.5	73.6	77.1	78.5	50	63	72	6205	6203	E	14.36
1.5	1.1	1725	145TC	VM7034T-5⑧	2.0	13.0	4.5	73.6	77.1	78.5	50	63	72	6205	6203	H	14.36
1.5	1.1	1140	145TC	VM7035T①	2.6	12.5	6.8	76.0	79.0	80.0	52	66	67	6205	6203	F	16.10
2	1.5	3450	145TC	CM7071T⑧	2.6	24.3	3.0	81.2	83.8	84.0	73	80	88	6205	6203	F	15.23
2	1.5	3450	145TC	VM7071T⑧	2.7	17.5	3.0	78.2	80.3	78.5	80	87	93	6205	6203	E	15.23
2	1.5	1725	56C	CM7037⑧	3.1	22.0	6.0	82.2	83.7	82.5	59	72	77	6205	6203	E	15.17
2	1.5	1725	56C	VM7037⑧	3.1	22.0	6.0	82.2	83.7	82.5	59	72	77	6205	6203	E	15.17
2	1.5	1740	145TC	CM7037T⑧	2.8	21.0	6.0	83.8	85.2	84.0	61	73	79	6205	6203	F	15.23
2	1.5	1725	145TC	VM7037T⑧	3.1	22.0	6.0	82.2	83.7	82.5	59	72	77	6205	6203	E	15.23
2	1.5	1725	145TC	VM7037T-5⑧	2.5	17.6	6.0	82.2	83.7	82.5	59	72	77	6205	6203	H	15.23
3	2.2	3475	145TC	CM7075T①	3.6	38.6	4.64	84.8	86.7	85.5	78	88	91	6205	6203	F	17.48
3	2.2	3450	145TC	VM7075T①	3.8	32.9	4.6	83.0	84.3	82.5	74	83	89	6205	6203	E	15.23
3	2.2	3450	182TC	VM7026T⑧	3.9	35.0	4.5	78.1	81.5	81.5	77	85	89	6206	6205	E	17.50
3	2.2	1750	182TC	CM7042T⑧	4.1	34.6	9.01	86.4	88.1	87.5	58	70	78	6206	6205	F	18.86
3	2.2	1725	182TC	VM7042T⑧	4.3	30.0	9.0	82.6	84.5	82.5	59	72	75	6206	6205	F	17.50
3	2.2	1725	182TC	VM7042T-5⑧	3.6	24.0	9.0	82.6	84.5	82.5	59	72	75	6206	6205	H	17.50
5	3.7	3465	184TC	CM7072T⑧	5.6	58.3	7.6	86.3	87.7	87.5	88	93	93	6206	6205	F	18.86
5	3.7	3450	184TC	VM7072T⑧	6.0	47.0	7.5	85.8	86.5	85.5	88	93	93	6206	6205	E	18.06
5	3.7	1750	184TC	CM7044T⑧	6.7	53.0	15.0	87.3	88.4	87.5	63	74	80	6206	6205	F	18.80
5	3.7	1725	184TC	VM7044T⑧	6.5	53.0	15.0	87.1	87.2	86.5	74	83	85	6206	6205	F	18.80
5	3.7	1750	184TC	VM7044T-5⑧	5.2	41.0	15.0	87.3	88.4	87.5	63	74	80	6206	6205	H	18.50
7.5	5.6	3450	184TC	CM7073T①	8.3	80.9	11.5	89.6	89.6	88.5	92	95	96	6206	6205	F	20.36
7.5	5.6	3450	184TC	VM7073T①	8.8	76.0	11.3	85.4	87.5	87.5	85	90	91	6206	6205	F	20.37
7.5	5.6	3500	213TC	CM7045T⑧	8.9	73.8	11.3	87.4	89.2	88.5	81	87	89	6307	6206	F	20.33
7.5	5.6	3450	213TC	VM7045T⑧	9.3	88.7	11.4	82.6	85.4	84.0	84	89	88	6307	6206	F	19.19
7.5	5.6	1760	213TC	CM7047T⑧	10.2	69.1	22.2	87.0	89.0	89.5	61	72	76	6307	6206	F	21.08
7.5	5.6	1760	213TC	VM7047T⑧	10.5	81.0	22.3	84.8	86.7	86.5	61	72	78	6307	6206	F	19.19
7.5	5.6	1725	213TC	VM7047T-5⑧	8.4	84.0	22.5	84.1	87.0	87.5	61	73	87	6307	6206	H	20.33
10	7.5	3480	215TC	CM7174T⑧	11.6	99.2	15.0	88.1	89.5	89.5	82	88	90	6307	6206	F	20.65
10	7.5	1760	215TC	CM7170T⑧	14.2	100	29.9	87.8	89.6	89.5	54	67	73	6307	6206	F	20.65
10	7.5	1760	215TC	VM7170T⑧	13.3	6.5	29.8	87.3	88.1	87.5	62	74	82	6307	6206	F	20.65
15	11.2	3525	254TC	CM7053T⑧	17.1	116	22.3	87.7	89.5	90.2	84	90	91	6309	6208	F	26.00
15	11.2	1770	254TC	CM7054T⑧	18.0	131	44.1	91.1	92.4	91.0	69	79	84	6309	6208	F	26.00
20	14.9	3525	256TC	CM7059T⑧	23.0	156	29.6	86.0	88.5	90.2	85	89	91	6309	6208	F	26.00
20	14.9	1760	256TC	CM7056T⑧	24.0	168	59.3	90.2	91.6	91.0	71	80	84	6309	6208	F	26.00
25	18.7	3540	286TSC	CM7063T⑧	28.5	196	37.1	85.9	88.9	91.0	83	89	91	6311	6309	F	27.24
25	18.7	1775	284TC	CM7058T⑧	30.8	188	74.4	90.0	91.8	92.4	71	80	84	6311	6309	F	28.61
30	22.4	1770	286TC	CM7060T⑧	36.0	208	90.0	90.1	91.7	92.4	73	81	84	6311	6309	F	28.61
40	30	1775	324TC	CM7062T⑧	47.0	322	118	93.1	94.1	93.0	74	82	86	6312	6311	F	32.00
50	37	1775	326TC	CM7064T⑧	60.0	398	149	91.4	92.9	93.0	75	83	86	6312	6311	F	32.00

Volt Code: E=208-230/460, E1= 230/460 volts usable at 208 volts, F=230/460, H=575 volts.
Circled number next to Catalog number indicates the motor's temperature rating, approval class and group.
See page 10. Data subject to change without notice. Contact Baldor for certified data.
See page 17 for Layout drawing.
Shaded ratings are cast-iron frames.

Dimensions

Horizontal Base Mount Explosion-Proof Motors



Rolled Steel Construction

NEMA Frame	A	B	D	E	2F	H	N	O	P	U	V	AA	AB	AC	BA
48	5.75	4.00	3.00	2.12	2.75	0.34	1.62	6.10	5.75	0.50	1.50	0.50	6.54	5.00	2.50
(400Typ)		(4.25)					(2.00)	(6.60)	(5.78)				(6.50)	(4.96)	
56	6.56	4.50	3.50	2.44	3.00	0.34	2.40	7.09	6.69	0.62	1.88	0.50	6.92	5.38	2.75
143T					4.00										
145T	6.50	5.94	3.50	2.75	5.00	0.34	2.46	7.09	6.69	0.87	2.25	0.75	6.92	5.38	2.25
(500Typ)					(4.50)		(2.46)	(8.09)	(6.69)			(0.50)	(6.92)	(5.38)	
182-4	8.63	6.50	4.50	3.75	5.50	0.41	2.56	8.44	7.88	0.87	2.25	0.75	7.52	5.98	2.75
182T					4.50										
184T	8.63	6.50	4.50	3.75	5.50	0.41	3.06	8.44	7.88	1.12	2.75	0.75	7.52	5.98	2.75
213					5.50				9.69(L)						
215	9.50	8.00	5.25	4.25	7.00	0.41	3.44	10.56	9.56(M)	1.12	3.00	0.75	8.37	6.83	3.50
213T					5.50										
215T	9.50	8.00	5.25	4.25	7.00	0.41	3.82	10.03	9.56	1.375	3.38	0.75	8.37	6.83	3.50

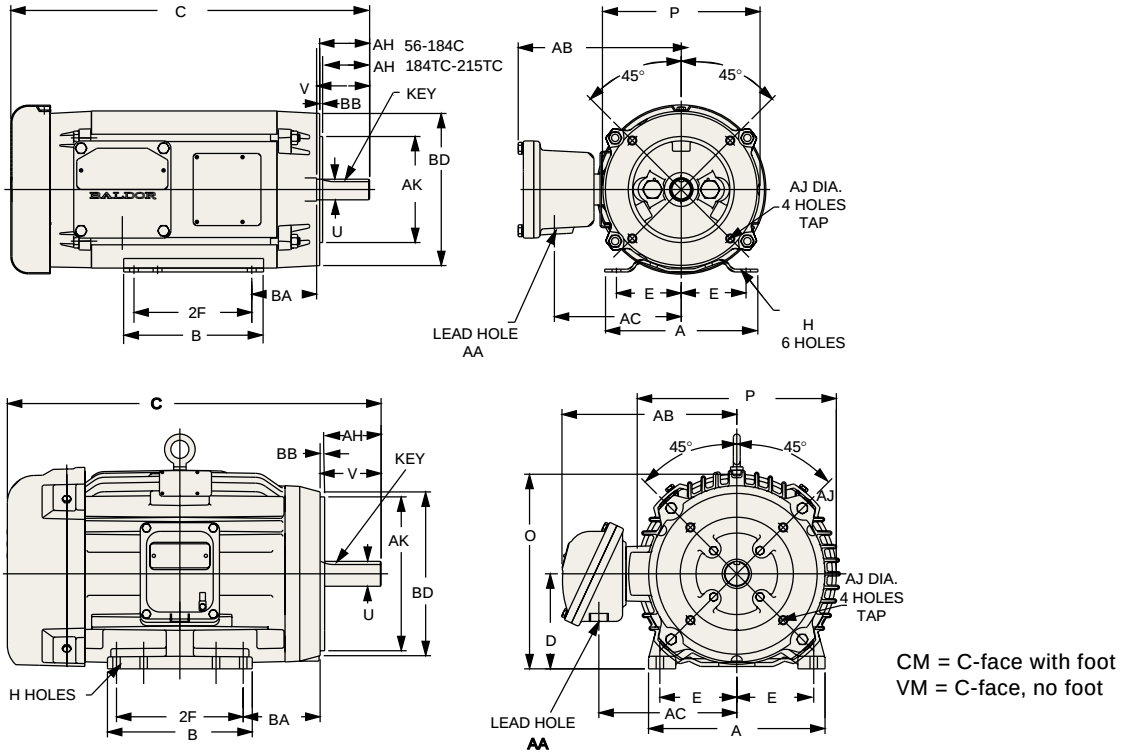
Cast Iron Construction

NEMA Frame	A	B	D	E	2F	H	N	O	P	U	V	AA	AB	AC	BA
182T					4.50										
184T	8.62	8.00	4.50	3.75	5.50	0.41	3.25	11.27	10.08	1.12	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	3.47	10.75	11.00	1.37	3.38	0.75	9.66	7.62	3.50
254T					8.25										
256T	11.50	11.50	6.25	5.00	10.00	0.53	4.20	12.94	13.44	1.62	4.00	1.25	12.37	9.24	4.25
284TS					9.50										
286TS	12.76	12.75	7.00	5.50	11.00	0.53	3.50	14.75	15.54	1.62	3.25	1.25	16.51	11.57	4.75
284T					9.50										
286T	12.76	12.75	7.00	5.50	11.00	0.53	4.88	14.75	15.54	1.87	4.63	1.50	16.51	11.57	4.75
324TS					10.50										
326TS	14.50	14.00	8.00	6.25	12.00	0.66	3.94	16.68	17.40	1.87	3.75	2.00	17.40	12.48	5.25
324T					10.50										
326T	14.50	14.00	8.00	6.25	12.00	0.66	5.44	16.68	17.40	2.12	5.25	2.00	17.40	12.48	5.25
364T		13.50			11.25								17.44		
365T	17.00	14.50	9.00	7.00	12.25	0.66	6.13	18.50	18.88	2.37	5.88	2.50	17.35	12.75	5.88
404T		15.25			12.75										
405T	19.50	16.75	10.00	8.00	13.75	0.81	7.56	21.00	20.88	2.87	7.25	2.50	18.44	13.75	6.62
444T					14.50										
445T	21.75	20.25	11.00	9.00	16.50	0.81	8.75	22.94	24.81	3.37	8.50	3.00	23.63	18.31	7.50
447T					20.00										
449T	21.75	28.75	11.00	9.00	25.00	0.81	8.50	22.94	24.81	3.37	8.50	3.00	27.67	18.62	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

Dimensions

C-Face Explosion-Proof Motors



CM = C-face with foot
VM = C-face, no foot

Rolled Steel Construction

NEMA Frame	A	B	D	E	2F	H	O	P	U	V	AA	AB	AC	AH	AJ	AK	BA	BB	BD	Tap
400(Tyo)	(6.56)	(4.25)					(6.60)	(5.78)				(6.50)	(4.96)						(5.90)	
56C	6.50	4.50	3.50	2.44	3.00	0.34	7.09	6.69	0.62	1.88	0.50	6.92	5.38	2.06	5.88	4.50	2.75	0.12	6.46	3/8-16
143TC					4.00															
145TC	6.50	5.94	3.50	2.75	5.00	0.34	7.09	6.69	0.87	2.25	0.75	6.92	5.38	2.12	5.88	4.50	2.75	0.13	6.46	3/8-16
182C					4.50															
184C	8.63	6.50	4.50	3.75	5.50	0.41	8.44	8.00	0.87	2.25	0.75	7.52	5.98	2.12	5.88	4.50	2.75	0.13	6.38	3/8-16
182TC					4.50															
184TC	8.63	6.50	4.50	3.75	5.50	0.41	9.00	8.03	1.12	2.75	0.75	7.52	5.98	2.62	7.25	8.50	2.75	0.25	8.98	1/2-13
213C					5.50															
215C	9.50	8.00	5.25	4.25	7.00	0.41	10.10	9.69	1.12	3.00	0.75	8.37	6.83	2.75	7.25	8.50	3.50	0.25	9.00	1/2-13
213TC					5.50															
215TC	9.50	8.00	5.25	4.25	7.00	0.41	10.03	9.69	1.37	3.37	0.75	8.37	6.83	3.12	7.25	8.50	4.25	0.25	9.04	1/2-13

Cast Iron Construction

NEMA Frame	A	B	D	E	2F	H	O	P	U	V	AA	AB	AC	AH	AJ	AK	BA	BB	BD	Tap
213TC					5.50															
215TC	9.75	8.00	5.25	4.25	7.00	0.41	10.75	11.00	1.37	3.38	0.75	9.66	7.62	3.12	7.25	8.50	4.25	0.25	9.05	1/2-13
254TC					8.25															
256TC	11.50	11.50	6.25	5.00	10.00	0.53	12.94	13.44	1.62	4.00	1.25	11.19	8.57	3.75	7.25	8.50	4.75	0.25	9.13	1/2-13
284TCS					9.50															
286TCS	12.76	12.75	7.00	5.50	11.00	0.53	14.75	15.54	1.62	3.25	1.25	14.37	10.69	3.00	9.00	10.50	4.75	0.25	11.15	1/2-13
284TC					9.50															
286TC	12.76	12.75	7.00	5.50	11.00	0.53	14.75	15.54	1.87	4.62	1.25	14.37	10.69	4.37	9.00	10.50	4.75	0.25	11.15	1/2-13
324TC					10.50															
326TC	14.50	14.00	8.00	6.25	12.00	0.65	16.68	17.46	2.12	5.25	1.50	15.25	11.60	5.00	11.00	12.50	5.25	0.25	13.38	5/8-11

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

Explosion-Proof Jet Pump Motors

In applications where a threaded shaft jet pump motor is used in hazardous locations, Baldor offers explosion-proof motors available from stock in single and three phase, 1/2 hp through 2 hp, in NEMA frame 56J. They are UL and CSA approved for Class I – Group D and Class II – Group F and G.

Performance Data, Single Phase

Hp	kW	RPM	Frame	Catalog No.	Amps @ High V		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		Volt Code	C Dimens.
					Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE		
0.50	0.37	3450	56J	JL5003A⑦	3.9	22.5	0.75	41.2	49.7	55.0	51	59	69	6205	6203	B	14.79
0.75	0.56	3450	56J	JL5006A⑦	4.9	28.3	1.13	50.0	58.0	62.0	60	70	75	6205	6203	B	14.79
1	0.75	3450	56J	JL5009A⑦	6.0	35.0	1.5	65.0	67.0	66.0	64	75	81	6205	6203	B	15.68
1.5	1.1	3450	56J	JL5030⑧	7.5	42.0	2.3	65.3	68.4	70.0	64	73	82	6205	6203	A	15.68
2	1.5	3450	56J	JL5031⑧	11.5	77.5	3.0	64.2	70.5	74.0	65	75	82	6205	6203	A	16.56

Performance Data, Three Phase

Hp	kW	RPM	Frame	Catalog No.	Amps @ High V		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		Volt Code	C Dimens.
					Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE		
1	0.75	3450	56J	JM7013⑧	1.5	11.0	1.5	72.1	76.8	75.5	53	68	71	6203	6203	F	13.72
1.5	1.1	3450	56J	JM7018⑧	2.3	16.0	2.3	66.7	72.7	75.5	59	71	76	6205	6203	E	14.79
2	1.5	3450	56J	JM7071⑧	2.7	17.5	3.0	78.2	80.3	78.5	80	87	93	6205	6203	E	15.67

See page 20 for Layout drawing.

Explosion-Proof Close-Coupled Pump Motors

Where close-coupled pump shaft configurations are required in hazardous locations, Baldor offers explosion-proof motors available from stock in three phase, 3 hp through 10 hp, in NEMA frames 145JM through 215JM. They are UL and CSA approved for Class I – Group D and Class II – Group F and G, and are rated at a 1.0 Service Factor.

Performance Data, Three Phase

Hp	kW	RPM	Frame	Catalog No.	Amps @ High V		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		Volt Code	C Dimens.
					Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE		
3	2.2	3450	145JM	JMM7075T①	3.8	32.9	4.6	83.0	84.3	82.5	74	83	89.0	6206	6203	E	17.80
3	2.2	3450	182JM	JMM7026T①	3.9	35.0	4.5	78.1	81.5	81.5	77	85	89.0	6207	6205	E	19.03
5	3.7	3450	184JM	JMM7072T①	6.0	47.0	7.5	85.8	86.5	85.5	88	93	93.0	6207	6205	F	20.41
7.5	5.6	3450	184JM	JMM7073T①	8.6	76.0	11.3	87.8	88.1	87.5	84	90	94.0	6207	6205	F	21.91
7.5	5.6	3450	213JM	JMM7045T①	9.3	88.7	11.4	82.6	85.4	84.0	84	89	88.0	6307	6206	F	20.05
10	7.5	3450	215JM	JMM7074T①	12.0	100	15.0	83.4	85.9	86.5	85	91	91.0	6307	6206	F	21.19

Volt Code:A=115/208-230, B=115/230, E=208-230/460, F= 230/460 volts.
Circled number next to Catalog number indicates the motor's temperature rating, approval class and group. See page 10.

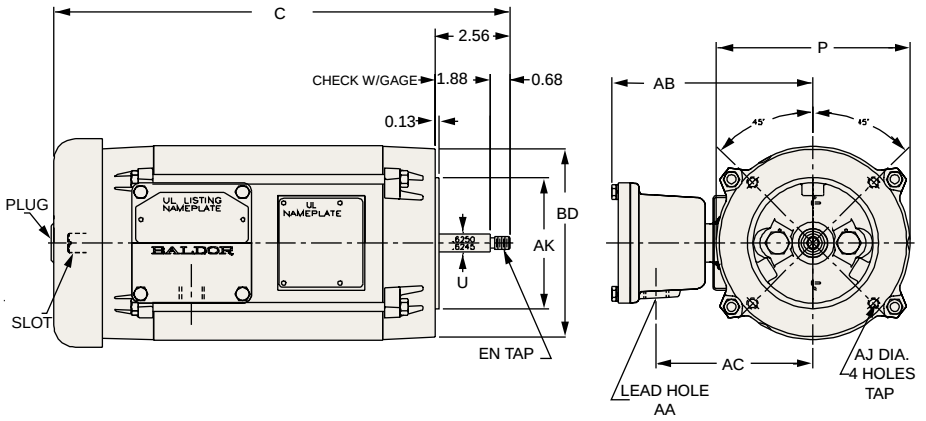
Note: Drawings shown are for reference only. Please contact Baldor for a detailed dimensional drawing of the specific motor you require. Drawings may also be available from our CD-Rom or website at www.baldor.com

See page 20 for Layout drawing.

Dimensions

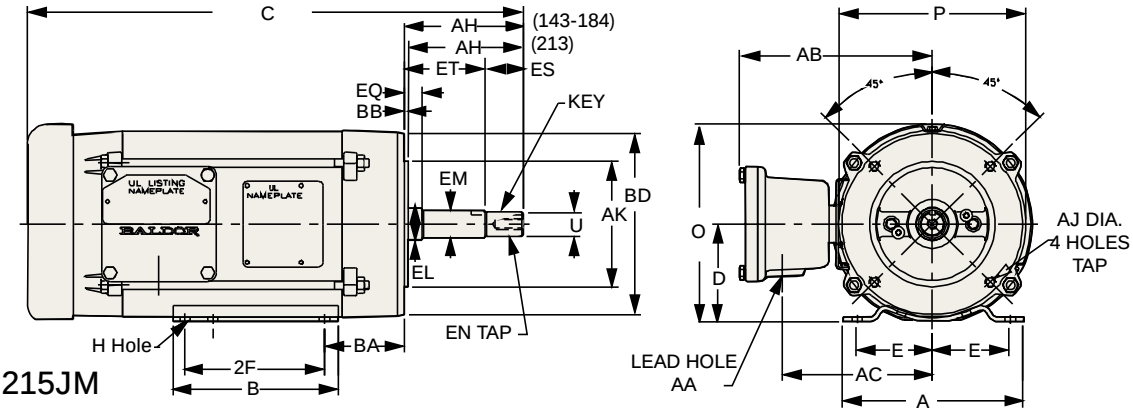
Jet Pump Explosion-Proof Motors

56J



Close-Coupled Pump Explosion-Proof Motors

143JM-215JM



NEMA Frame	A	B	D	E	2F	H	O	P	U	AA	AB	AC	AJ	AK	BA	BB	BD	Tap
(400Typ) 56J	-	-	-	-	-	-	-	(5.61) 6.68	0.62	0.50	(6.53) 6.90	(5.00) 5.38	5.88	4.50	-	0.12	(5.91) 6.50	3/8-16
143JM 145JM	6.50	5.94	3.50	2.75	4.00 5.00	0.34	7.81	6.69	0.87	0.75	6.92	5.38	5.88	4.50	2.88	0.13	6.49	3/8-16
182JM 184JM	8.63	6.50	4.50	3.75	4.50 5.50	0.41	8.99	7.88	0.87	0.75	7.52	5.98	5.88	4.50	3.50	0.12	6.28	3/8-16
213JM 215JM	9.50	8.00	5.25	4.25	5.50 7.00	0.41	10.99	9.69	0.87	0.75	8.37	6.83	7.25	8.50	4.25	0.25	9.04	1/2-13

NEMA Frame	AH	EL	EM	EN	EQ	ES	ET
143JM 145JM	4.28	1.16	1.00	0.88	0.64	1.39	2.89
182JM 184JM	4.28	1.25	1.00	0.88	0.64	1.39	2.89
213JM 215JM	4.25	1.25	1.00	0.88	0.62	1.37	2.88

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

Explosion-Proof Brake Motors

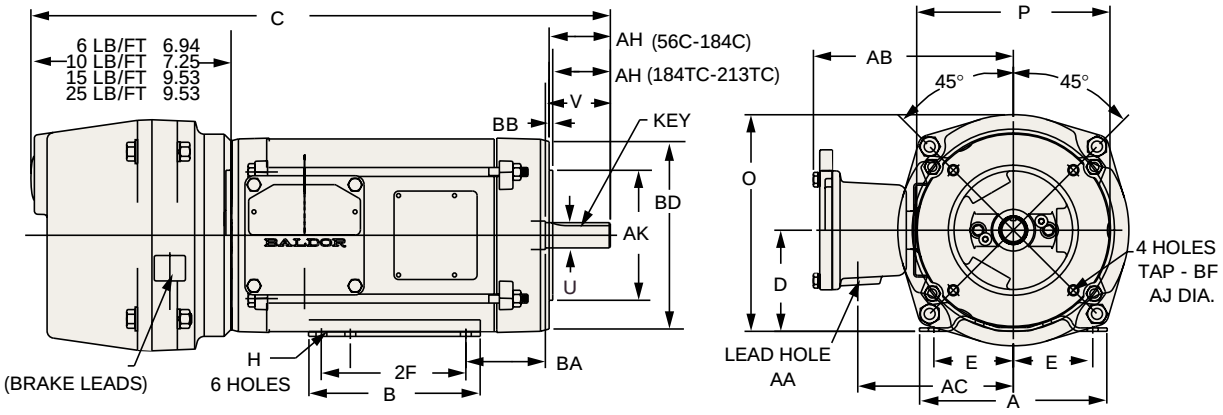
In applications requiring quick stops and holds in hazardous locations, Baldor offers explosion-proof brake motors from stock in 3/4 hp through 3 hp, NEMA frames 56C through 215TC. These 3-phase motors are C-face mounted, and feature a spring-set brake. In the event of a power outage, a manual release allows continued operation, and then resets automatically when power is restored. Explosion-proof brakes require external connections.

All brake motors with brakes that have 20 lb-ft. static torque ratings or smaller can be mounted horizontally or vertically. For larger ratings consult a Baldor District Office.

Performance Data, Three Phase

Hp	kW	RPM	Frame	Catalog No.	Amps @ High V Full Load	Amps @ High V Locked Rotor	Full Load Torque Lb. Ft.	Efficiency % 1/2	Efficiency % 3/4	Efficiency % Full Load	Power Factor % 1/2	Power Factor % 3/4	Power Factor % Full Load	Bearings DE	Bearings ODE	Volt Code	C Dimens.
0.75	0.56	1725	56C	CBM7010①	1.1	8.5	2.3	77.9	79.9	80.0	55	71	81	6205	6203	E	19.13
1	0.75	1725	143TC	CBM7014T①	1.5	13.5	3.0	76.9	80.9	80.0	56	69	81	6205	6203	E	20.06
2	1.5	1725	182TC	CBM7023T①	2.9	26.0	6.0	80.8	83.7	84.0	57	69	76	6206	6206	F	23.24
3	2.2	1725	215TC	CBM7027T①	4.3	33.0	9.0	81.3	84.2	84.0	56	69	77	6307	6206	F	27.29

Volt Code: E=208-230/460, F=230/460 volts.
Circled number next to Catalog number indicates the motor's temperature rating, approval class and group. See page 10.



NEMA Frame	A	B	D	E	2F	H	O	P	U	V	AA	AB	AC	AH	AJ	AK	BA	BB	BD	Tap
56C	6.50	4.50	3.50	2.44	3.00	0.34	7.50	6.69	0.62	1.87	0.50	6.92	5.38	2.06	5.88	4.50	2.75	0.13	6.49	3/8-16
143TC 145TC	6.50	5.94	3.50	2.75	4.00 5.00	0.34	7.50	6.69	0.87	2.25	0.75	6.92	5.38	2.12	5.88	4.50	2.75	0.13	6.49	3/8-16
182TC 184TC	8.63	6.50	4.50	3.75	4.50 5.50	0.41	8.99	8.03	1.12	2.75	0.75	7.52	5.98	2.62	7.25	8.50	3.50	0.25	8.98	1/2-13
213TC 215TC	9.50	8.00	5.25	4.25	5.50 7.00	0.41	10.03	9.69	1.37	3.37	0.75	8.37	6.83	3.12	7.25	8.50	4.25	0.25	9.00	1/2-13

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

Adjustable Speed AC Three Phase, Inverter Drive® Explosion-Proof Motors

These TEFC motors are designed for use with inverters in hazardous locations. Ratings are available for a 10:1 constant or variable torque speed rating. They may be used with a Baldor Series 15H, or an inverter manufactured by another company. The 1/2 hp through 2 hp motors meet Class I – Group D and Class II – Group F and G, with Temperature rating T3C (160 degrees). The 3 hp through 75 hp motors meet Class I – Group D only, with Temperature Code T2A (280 degrees). NEMA frames 56C through 405T. ISR® Inverter Spike Resistant wire is standard. All motors are rated at a 1.0 Service Factor, and have Class F insulation to meet NEMA MG1-1998, Part 31. All ratings constant horsepower 60 to 90 Hz.

Mechanical Design Characteristics

Specification	Description	Frames			
		56C	143TC-215TC	254TC-365TC	405T
Bearing Retention	Locked bearings for universal mounting	●	●	●	●
Bearings	Premium grade, double shielded	●	●		
	Premium grade, open with Lube Lock®			●	●
Conduit Box & Lid	U. L. approved cast iron explosion-proof	●	●	●	●
Drive End	C-Face for mounting flexibility on NEMA TC frames	●	●		●
Endplates	Aluminum with steel bearing journal	●	thru145TC		
	Cast iron - rugged and durable		from 182TC	●	●
Explosion-Proof Classifications	Class I, Group D, Class II, Group F & G. Temp. Rating 160°C	●	thru 145TC		
	Class I, Group D only. Temperature Rating 280°C		from 182TC	●	●
Frame	Steel band	●	thru 145TC		
	Cast iron		from 182TC	●	●
Foot Mounting	Rigid base, dual hole foot pattern for mounting flexibility	●	●	●	●
Ground Screw	Inside terminal box for convenience	●	●	●	●
Lifting Provisions	Eyebolt		●	●	●
Lubricant	Exxon POLYREX®EM or equivalent	●	●	●	●
Nameplate	UL/CSA listed nameplate. Includes base volts and frequency, connection diagram	●	●	●	●
Rotor Construction	Special high pressure aluminum die cast with low loss electrical steel and special slot configuration	●	●	●	●
Shaft Material	C1035 steel	●	●		
	C1137 steel			●	●

Electrical Design Characteristics

Specification	Description	Frames			
		56C	143TC-215TC	254TC-365TC	405T
Insulation	Class F Meets NEMA MG1-1993, Part 31	●	●	●	●
ISR® Magnet Wire	200°C moisture resistant, Inverter Spike Resistant® Wire	●	●	●	●
Service Factor	1.00	●	●	●	●
Voltage	230 / 460V @ 60 Hertz	●	●	●	●

AC Inverter Drive® Explosion-Proof Fan-Cooled Motors

UL and CSA approved for use in hazardous locations. 1/2 through 2 hp Class I, Group D, Class II, Group F & G. Temperature rating T3C (160˚C). 3 hp and larger Class I, Group D only. Temperature Code T2B (260˚C). 1.0 service factor. Class F insulation. All ratings constant horsepower 60 to 90 Hz.

Performance Data 230/460 Volt Ratings

10:1 Variable Torque and 2:1 Constant Torque Ratings

60 Hz			Max.	Max.	NEMA	Catalog	460 Volt Line Amps		Output Torque Lb-Ft.			% Effic.	Wk²	Ap'x Wgt.	Bearings	
Hp	kW	Speed	RAM	Frame	Encl.	No.	Idle	F.L.	F.L.	L.R.	B.D.	Line	Lb-Ft²	Lbs.	DE	ODE
0.50	0.37	1750	2700	56C	TEFC	IDXM7006⑧	0.5	0.8	1.5	5.6	6.7	82.5	0.09	42	6205	6203
0.75	0.56	1750	2700	56C	TEFC	IDXM7010⑧	0.61	1.1	2.25	8.4	8.8	82.5	0.12	46	6205	6203
1	0.75	1750	2700	143TC	TEFC	IDXM7014T⑧	0.81	1.4	3.0	10.0	14.5	85.5	0.142	50	6205	6203
1.5	1.1	1750	2700	145TC	TEFC	IDXM7034T⑧	1.13	2.1	4.5	19.0	23	88.5	0.166	53	6205	6203
2	1.5	1750	2700	145TC	TEFC	IDXM7037T⑧	1.3	2.6	6.0	25.3	27.4	88.5	0.237	70	6205	6203
3	2.2	1760	2700	182TC	TEFC	IDXM7142T⑥	2.2	4.0	9.0	22.0	31.0	89.5	0.26	147	6206	6205
5	3.7	1760	2700	184TC	TEFC	IDXM7144T⑥	3.4	6.5	15.0	32.0	50.0	89.5	0.4	161	6206	6205
7.5	5.6	1760	2700	213TC	TEFC	IDXM7147T⑥	4.9	9.7	22.4	42.9	69.9	90.2	0.85	228	6307	6206
10	7.5	1760	2700	215TC	TEFC	IDXM7170T⑥	5.5	12.5	30.0	56.0	121	91.7	1.14	196	6307	6206
15	11.2	1765	2700	254TC	TEFC	IDXM7054T⑥	6.95	18.0	45.0	88.0	143	92.4	1.84	356	6309	6208
20	14.9	1765	2700	256TC	TEFC	IDXM7056T⑥	8.5	24.0	60.0	120	183	93.0	2.27	393	6309	6208
25	18.7	1780	2700	284TC	TEFC	IDXM7058T⑥	11.9	30.5	74.0	137	226	93.6	3.98	494	6311	6309
30	22.4	1780	2700	286TC	TEFC	IDXM7060T⑥	14.5	36.0	90.0	143	256	94.1	4.46	555	6311	6309
40	30.0	1780	2700	324TC	TEFC	IDXM7062T⑥	16.01	47.0	118	207	385	94.1	7.5	782	6312	6311
50	37.0	1780	2700	326TC	TEFC	IDXM7064T⑥	19.13	57.0	148	290	451	94.5	9.64	772	6312	6311
60	45.0	1780	2700	364TC	TEFC	IDXM7066T⑥	23.5	69.0	177	278	556	95.0	11.7	1006	6313	6312
75	56.0	1780	2700	405T	TEFC	IDXM7068T⑥	23.6	85.0	225	388	515	94.1	22.4	1369	6316	6313

10:1 Variable Torque and Constant Torque Ratings

60 Hz			Max.	Max.	NEMA	Catalog	460 Volt Line Amps		Output Torque Lb-Ft.			% Effic.	Wk²	Ap'x Wgt.	Bearings	
Hp	kW	Speed	RAM	Frame	Encl.	No.	Idle	F.L.	F.L.	L.R.	B.D.	Line	Lb-Ft²	Lbs.	DE	ODE
3	2.2	1760	2700	182TC	TEFC	IDXM7542T⑥	2.2	4.0	9.0	22.0	31.0	89.5	0.26	144	6206	6205
5	3.7	1760	2700	213TC	TEFC	IDXM7544T⑥	2.6	6.3	15.0	29.4	41.2	90.2	0.608	212	6307	6206
7.5	5.6	1760	2700	215TC	TEFC	IDXM7547T⑥	4.9	9.7	22.4	42.9	69.9	90.2	0.84	225	6307	6206
10	7.5	1760	2700	254T	TEFC	IDXM7570T⑥	5.4	12.8	29.7	75.0	110	92.4	2.09	378	6309	6208
15	11.2	1765	2700	256TC	TEFC	IDXM7554T⑥	7.0	17.0	45.0	93.0	151	92.4	2.1	381	6309	6208
20	14.9	1765	2700	284TC	TEFC	IDXM7556T⑥	8.6	24.5	59.0	96.0	167	90.2	3.5	516	6311	6309
25	18.7	1780	2700	324TC	TEFC	IDXM7558T⑥	10.6	30.0	74.0	114	226	91.7	6.16	705	6312	6311
30	22.4	1780	2700	326TC	TEFC	IDXM7560T⑥	13.3	35.0	89.0	147	276	94.5	7.5	731	6312	6311
40	30.0	1780	2700	364TC	TEFC	IDXM7562T⑥	12.2	48.0	118	218	297	92.4	11.7	913	6313	6312
50	37.0	1780	2700	365TC	TEFC	IDXM7564T⑥	12.2	57.0	147	266	343	92.4	11.7	971	6313	6312
60	45.0	1780	2700	405T	TEFC	IDXM7566T⑥	17.8	69.0	177	332	425	93.6	22.4	1341	6313	6312

Circled number next to Catalog number indicates the motor's temperature rating, approval class and group. See page 10.

See page 25 for Layout drawing.

Explosion-Proof Inverter Drive® Motor Capabilities

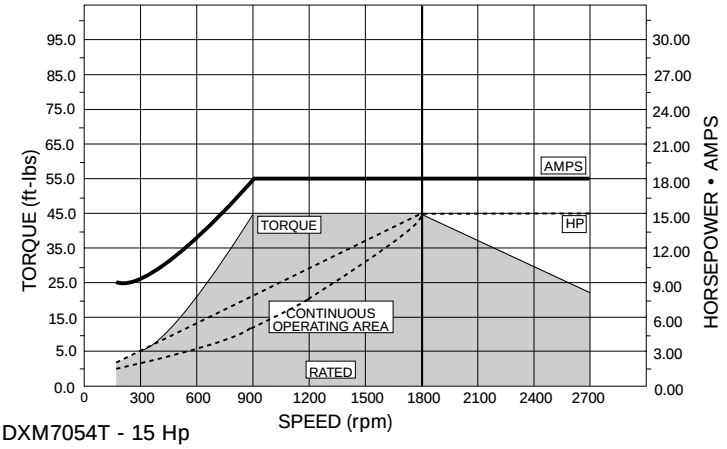
Hp	2:1 CTSR 10:1 VTSR Frame	10:1 CTSR 10:1 VTSR Frame	Base Speed	Maximum Speed	Hp	2:1 CTSR 10:1 VTSR Frame	10:1 CTSR 10:1 VTSR Frame	Base Speed	Maximum Speed
		56	3600	3600		286T	326T	3600	3600
0.5	56	56	1800	2700	30	286T	326T	1800	2700
		56	1200	1800		326T	364T	1200	1800
		56	3600	3600		324T	364T	3600	3600
0.75	56	56	1800	2700	40	324T	364T	1800	2700
		143T	1200	1800		364T	404T	1200	1800
		56	3600	3600		326T	365T	3600	3600
1	143T	143T	1800	2700	50	326T	365T	1800	2700
		145T	1200	1800		404T	405T	1200	1800
		143T	3600	3600		365T	405T	3600	3600
1.5	145T	145T	1800	2700	60	364T	405T	1800	2700
		182T	1200	1800		404T	444T	1200	1800
		145T	3600	3600		365T	444T	3600	3600
2	145T	145T	1800	2700	75	405T	444T	1800	2700
		213T	1200	1800		444T	445T	1200	1800
	182T	182T	3600	3600		444T	445T	3600	3600
3	182T	182T	1800	2700	100	444T	445T	1800	2700
	213T	213T	1200	1800		445T	447T	1200	1800
	184T	213T	3600	3600		445T	447T	3600	3600
5	184T	213T	1800	2700	125	445T	449T	1800	2700
	215T	254T	1200	1800		447T	449T	1200	1800
	213T	213T	3600	3600		447T	449T	3600	3600
7.5	213T	215T	1800	2700	150	447T	449T	1800	2700
	254T	254T	1200	1800		449T	449T	1200	1800
	215T	254T	3600	3600		449T	449T	3600	3600
10	215T	254T	1800	2700	200	449T	449T	1800	2700
	256T	286T	1200	1800		449T	449T	1200	1800
	254T	256T	3600	3600		449T	449T	3600	3600
15	254T	256T	1800	2700	250	449T	449T	1800	2700
	284T	284T	1200	1800		449T	N/A	1200	1800
	256T	284T	3600	3600		449T	N/A	3600	3600
20	256T	284T	1800	2700	300	449T	N/A	1800	2700
	286T	324T	1200	1800		N/A	N/A	1200	1800
	284T	324T	3600	3600					
25	284T	324T	1800	2700					
	324T	365T	1200	1800					

Note: Shaded areas are available from stock.

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 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.

Matched Performance Curve for 15 Hp Inverter Drive® Explosion-Proof Motor and Control*

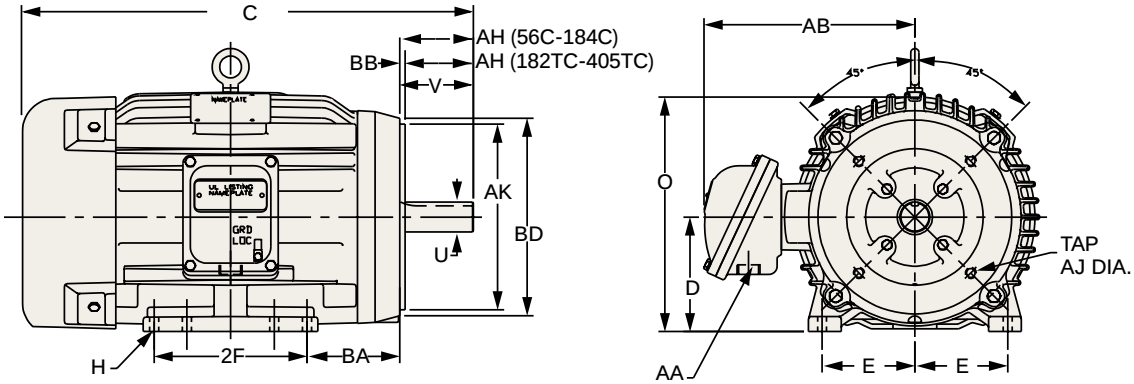


Motor: IDXM7054T - 15 Hp
Control: ID15H415-E - 15 Hp Series 15H Inverter

* NOTE: Baldor Inverters are supplied with NEMA 1 enclosures which are not approved for hazardous locations and should be remotely mounted. If the inverter drive needs to be mounted near the motor, contact your local Baldor district office.

Dimensions

TEFC Inverter Drive® Explosion-Proof Motors



Rolled Steel Construction

NEMA Frame	D	E	2F	H	O	U	V	AA	AB	AH	AJ	AK	BA	BB	BD	Tap
56C	3.50	2.44	3.00	0.34	7.09	0.625	1.88	0.50 NPT	6.92	2.06	5.88	4.50	2.75	0.13	6.46	3/8-16
143TC 145TC	3.50	2.75	4.00 5.00	0.34	7.09	0.875	2.25	0.75 NPT	6.92	2.12	5.88	4.50	2.75	0.13	6.46	3/8-16

Cast Iron Construction

NEMA Frame	D	E	2F	H	O	U	V	AA	AB	AH	AJ	AK	BA	BB	BD	Tap
182TC 184TC	4.50	3.75	4.50 5.50	0.41	9.56	1.125	2.75	0.75	8.55	2.62	7.25	8.50	3.50	0.13	8.96	1/2-13
213TC 215TC	5.25	4.25	5.50 7.00	0.41	10.75	1.375	3.37	0.75	9.66	3.12	7.25	8.50	4.25	0.25	9.05	1/2-13
254TC 246TC	6.25	5.00	8.25 10.00	0.53	12.94	1.625	4.00	1.25	11.25	3.75	7.25	8.50	4.75	0.25	9.13	1/2-13
284TC 286TC	7.00	5.50	9.50 11.00	0.53	14.74	1.875	4.62	1.25 NPT	14.32	4.38	9.00	10.50	4.75	0.25	11.23	1/2-13
324TC 326TC	8.00	6.25	10.50 12.00	0.65	16.63	2.125	5.25	1.50 NPT	15.23	5.00	11.00	12.50	5.25	0.25	13.38	5/8-11
364TC 365TC	9.00	7.00	11.25 12.25	0.65	18.50 18.44	2.375	5.88	2.50 NPT	17.51 17.35	5.63	11.00	12.50	5.88	0.25	13.52	5/8-11

Cast Iron Construction (Non-C-Face)

NEMA Frame	D	E	2F	H	N-W	O	U	V	AA	AB	BA
254T 256T	6.25	5.00	8.25 10.00	0.53	4.20	12.94	1.625	4.00	1.25	11.25	4.25
405T	10.00	8.00	13.75	0.81	7.56	21.00	2.875	7.25	2.50 NPT	18.35	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

Explosion-Proof SCR Drive Permanent Magnet and Shunt Wound DC Motors

When it comes to explosion-proof SCR Drive DC motors, Baldor offers two choices. Permanent Magnet motors are available from stock in 1/4 hp through 1-1/2 hp, in NEMA frames 56C and 145TC. Shunt Wound motors are available from stock in 1/2 hp through 3 hp, in NEMA frames 182CZ to 215CY. Both types are UL and CSA approved for Class I – Group D and Class II – Groups F and G, with a 1.0 Service Factor. Most models include a thermostat on the field winding.

SCR Drive Permanent Magnet DC Motors

Hp	kW	Base Speed	NEMA Frame	Voltage Direct Current		Full Load Amperage		Catalog No.	Type No.	Ap'x. Shpg. Wgt.
				Arm.	Fld.	Arm.	Fld.			
0.25	0.19	1750	56C	90	PM	2.7	PM	CDPX3410 ⑧	X3413P	38
0.25	0.19	1750	56C	180	PM	1.3	PM	CDPX3406 ⑧	X3413P	38
0.33	0.25	1750	56C	90	PM	3.6	PM	CDPX3420 ⑧	X3420P	42
0.33	0.25	1750	56C	180	PM	1.7	PM	CDPX3416 ⑧	X3420P	44
0.50	0.37	1750	56C	90	PM	5.2	PM	CDPX3430 ⑧	X3428P	46
0.50	0.37	1750	56C	180	PM	2.5	PM	CDPX3426 ⑧	X3428P	46
0.75	0.56	1750	56C	90	PM	7.0	PM	CDPX3440 ⑧	X3435P	51
0.75	0.56	1750	56C	180	PM	3.5	PM	CDPX3436 ⑧	X3435P	51
1	0.75	1750	56C	90	PM	9.6	PM	CDPX3545 ⑧	X3536P	72
1	0.75	1750	56C	180	PM	4.9	PM	CDPX3555 ⑧	X3536P	71
1.5	1.1	1750	145TC	180	PM	7.1	PM	CDPX3575 ⑧	X3548P	81

See page 27 and 28 for Layout drawing.

SCR Drive Shunt Wound DC Motors

Hp	kW	Base Speed	NEMA Frame	Voltage Direct Current		Full Load Amperage		Catalog No.	Type No.	Ap'x. Shpg. Wgt.
				Arm.	Fld.	Arm.	Fld.			
0.50	0.37	1750	182CZ	90	100/50	4.9	0.55	CDX1850③	X3623D	103
0.75	0.56	1750	182CZ	90	100/50	7.0	0.55	CDX1875③	X3623D	100
1	0.75	1750	182CZ	180	200/100	5.0	0.25	CDX2001③	X3623D	105
1	0.75	1750	182C	180	200/100	5.0	0.25	CDX7100③	X3623D	103
1.5	1.1	1750	184C	180	200/100	7.5	0.25	CDX7150③	X3636D	121
2	1.5	1750	184C	180	200/100	9.5	0.40	CDX7200③	X3646D	135
3	2.2	1750	215CY	180	200/100	14.5	0.40	CDX7513③	X7544D	259

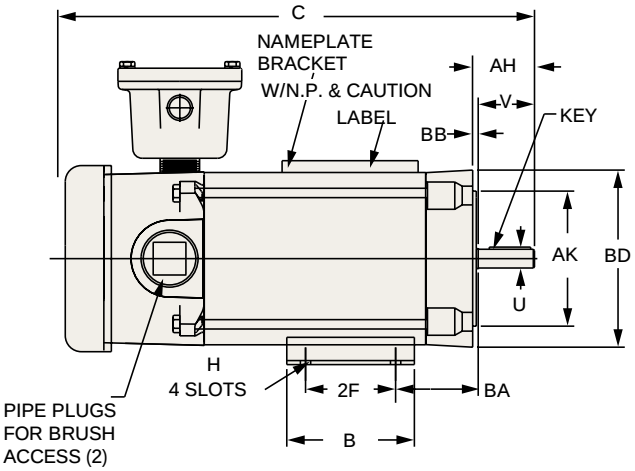
Note: Motors are T3B= Class I, Group D, Class II, Group F & G will not exceed surface temperature of 165ºC.

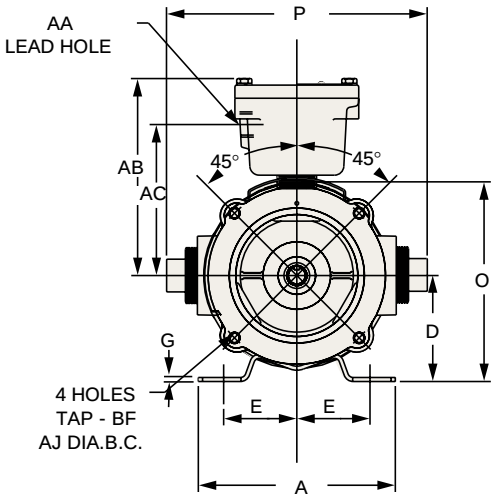
Refer to page 10 for temperature ratings and code numbers.
Data subject to change without notice. Contact Baldor for certified data.

See pages 27 and 28 for Layout drawings.

Dimensions

SCR Drive Permanent Magnet DC Explosion-Proof Motors





NEMA Frame	Type	C	BA	E	2F	G	H	U	V	Key	AH	A	B	D	O	P
56C	3413P 3420P 3428P 3435P	13.87 14.87 14.87 15.87	2.75	2.44	3.00	0.25	0.34 Slot (4)	0.62	1.87	0.19	2.06	6.56	4.25	3.50	6.34	8.47
56C	3536P	18.36	2.75	2.44	3.00	0.12	0.34 Slot (4)	0.62	1.88	0.19	2.06	6.50	4.50	3.50	7.09	9.32
145TC	3548P	19.43	2.75	2.75	4.00 5.00	0.25	0.34 Slot (6)	0.87	2.25	0.19	2.13	6.50	5.94	3.50	7.09	9.32

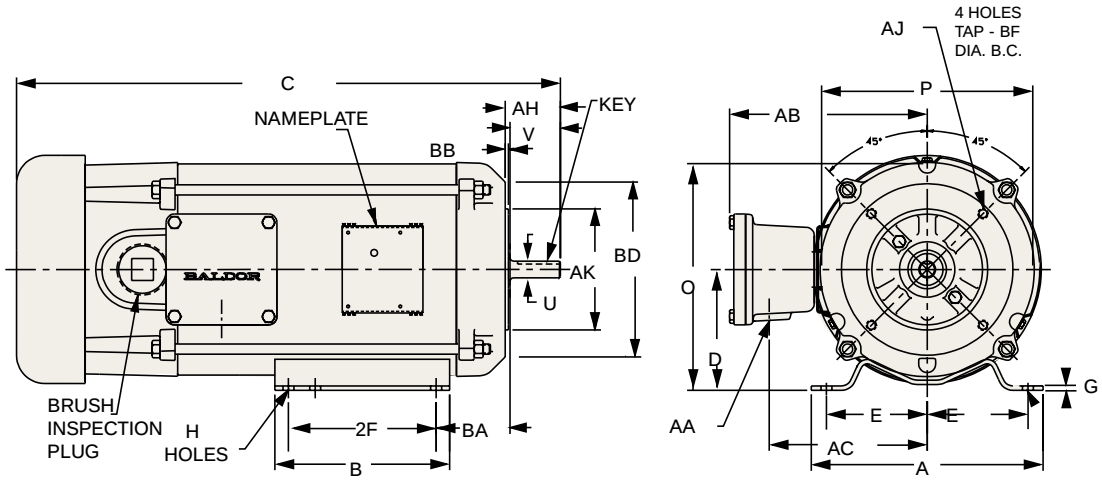
NEMA Frame	Type	AA	AB	AC	AJ	AK	BB	BD	BF
56C	3413P 3420P 3428P	0.50 NPT	6.57	5.03	5.88	4.50	0.12	5.90	3/8-16
56C 145TC	3536P 3548P	0.75 NPT	6.76	5.25	5.88	4.50	0.12	6.46	3/8-16

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

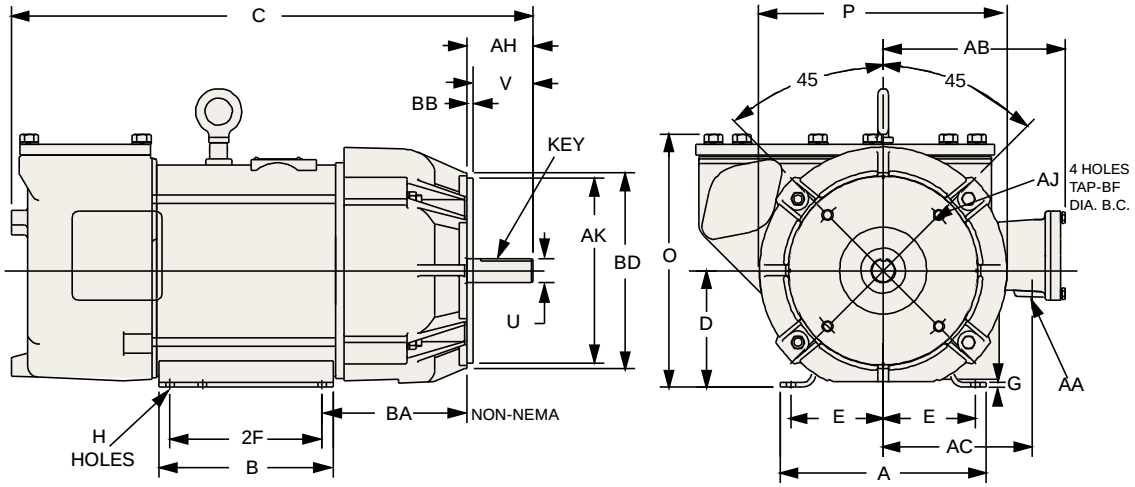
Dimensions

SCR Drive Shunt Wound DC Explosion-Proof Motors

182-184



215CY



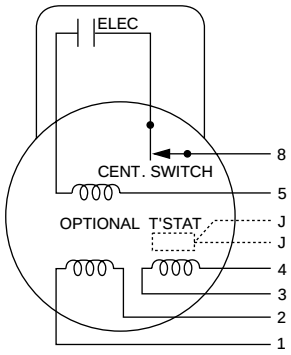
NEMA Frame	Type	C	BA	E	2F	G	H	U	V	Key	AH	A	B	D	O	P
182CZ	3623D	18.61	2.75	3.75	4.50/5.50	0.16	0.41	0.62	1.88	0.19	2.06	8.63	6.50	4.50	8.44	7.86
182C	3623D	18.68														
	3636D	20.30	2.75	3.75	4.50/5.50	0.16	0.41	0.87	2.25	0.19	2.12	8.63	6.50	4.50	8.44	7.86
184C	3646D	21.56														
215CY	7544D	23.99	6.69	4.25	5.50/7.00	0.81	0.41	1.12	2.75	0.25	3.00	9.50	8.00	5.35	11.58	13.75

NEMA Frame	Type	AA	AB	AC	AJ	AK	BB	BD	BF
182CZ	3623D	0.75	7.35	5.88	5.88	4.50	0.12	6.51	3/8-16
182C	3623D								
	3636D	0.75	7.35	5.88	5.88	4.50	0.12	6.51	3/8+16
184C	3646D								
215CY	7544D	0.75	8.62	6.84	7.25	8.50	0.25	9.00	1/2-13

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

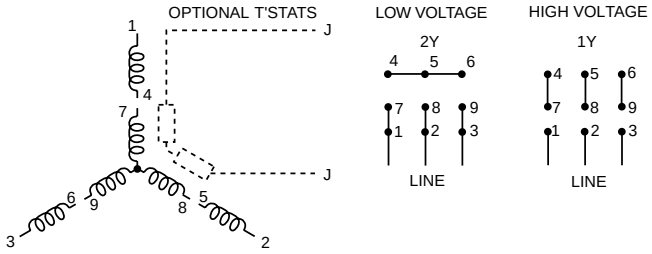
Connection Diagrams
Main Motor Power Leads

CD0001



VOLT	↻	LINE A	LINE B	JOIN
HIGH	STD	1	4,5	2,3,8
HIGH	OPP	1	4,8	2,3,5
LOW	STD	1,3,8	2,4,5	—
LOW	OPP	1,3,5	2,4,8	—

CD0005



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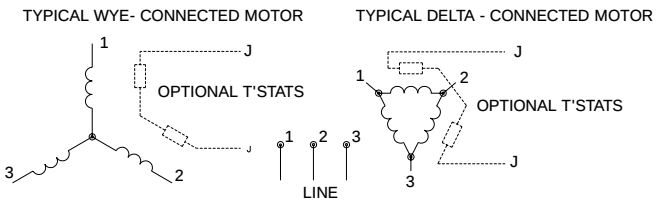

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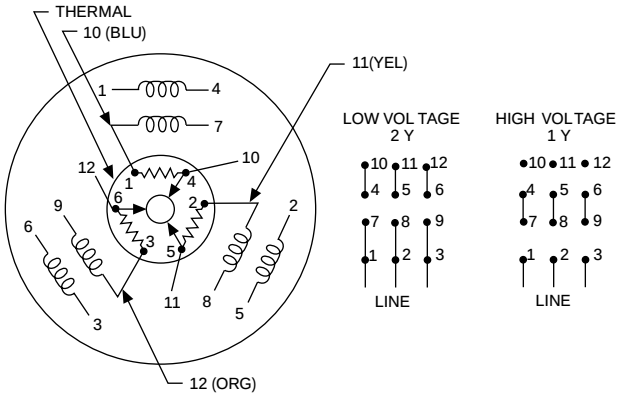

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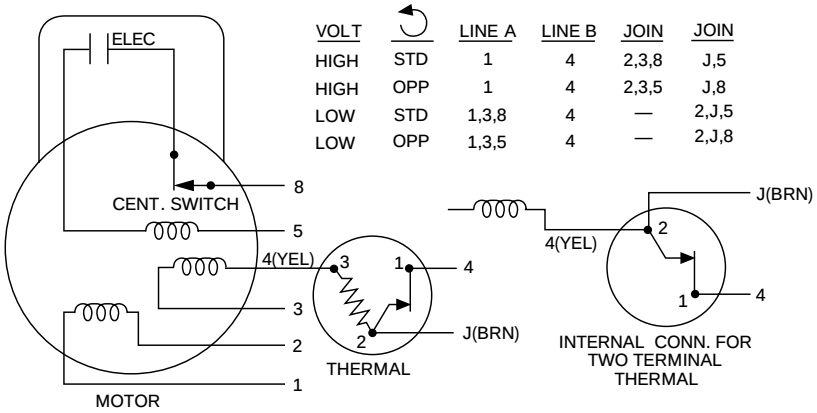
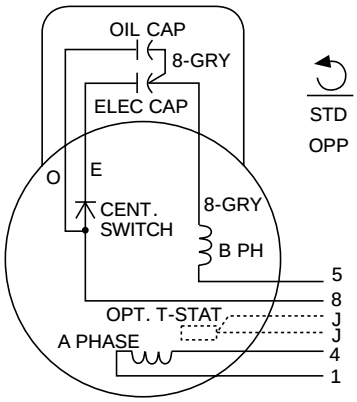


VOLT	↻	LINE A	LINE B	JOIN	JOIN
HIGH	STD	1	4	2,3,8	J,5
HIGH	OPP	1	4	2,3,5	J,8
LOW	STD	1,3,8	4	—	2,J,5
LOW	OPP	1,3,5	4	—	2,J,8

Notes:
1.Three lead motors may be designed as either wye-connected or delta-connected.
2. Interchange any two line leads to reverse rotation.
3. Optional thermostats are provided when specified.
4. Actual number of internal parallel circuits may vary.

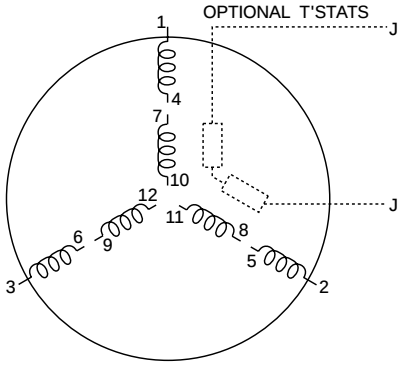
Connection Diagrams
Main Motor Power Leads

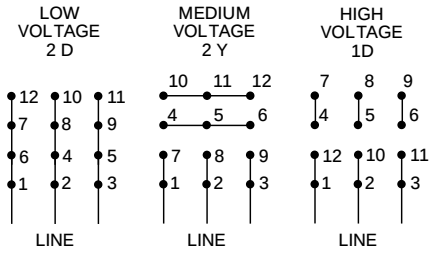
CD17A02



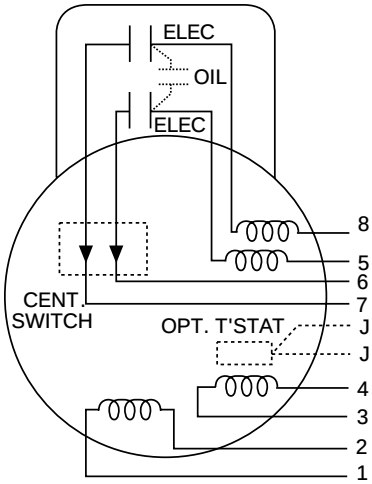
	LINE A	LINE B
STD	1,8	4,5
OPP	1,5	4,8

CD0044



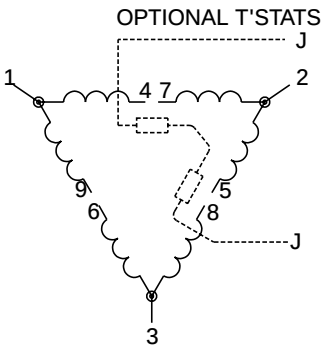


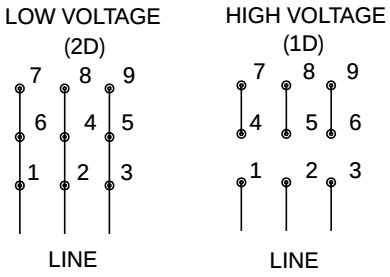
CD0076



VOLT		LINE A	LINE B	JOIN	JOIN
HIGH	STD	1,8	4,5	2,3	6,7
HIGH	OPP	1,5	4,8	2,3	6,7
LOW	STD	1,3,6,8	2,4,5,7		
LOW	OPP	1,3,5,7	2,4,6,8		

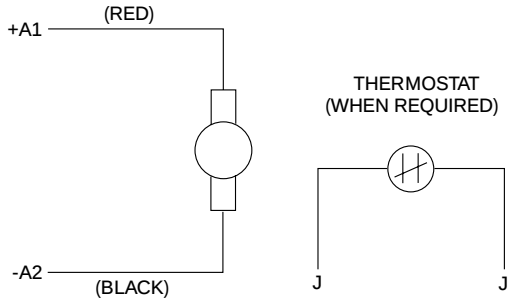
CD0180

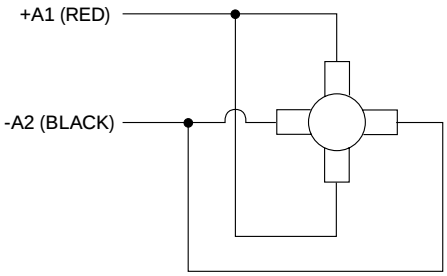




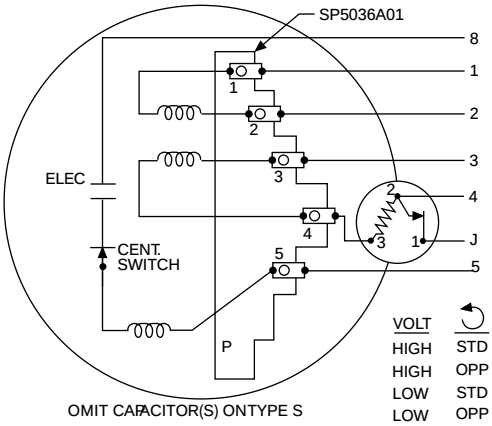
Connection Diagrams
Main Motor Power Leads

CD0194





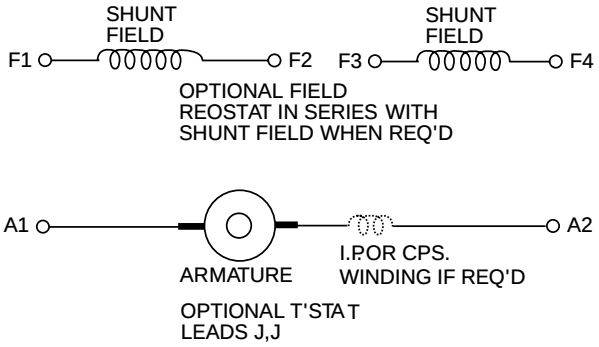
CD0565



OMIT CAPACITOR(S) ONTYPE S

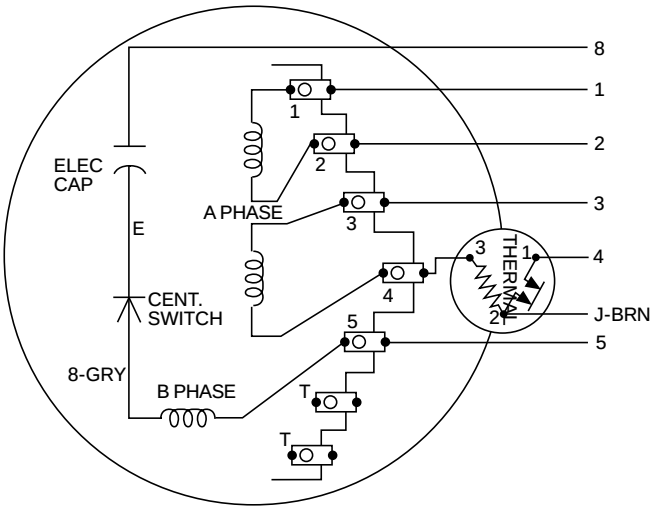
VOLT		LINE A	LINE B	JOIN	JOIN
HIGH	STD	1	4	2,3,8	J,5
HIGH	OPP	1	4	2,3,5	J,8
LOW	STD	1,3,8	4	2,J,5	
LOW	OPP	1,3,5	4	2,J,8	

CD0860



H.V. CWDE = +(A1&F1), (F2&F3), -(A2&F4)
L.V. CWDE = +(A1,F1&F3), -(A2,F2&F4)
CC2DE = REVERSE A1 & A2

CD0885



	LINE A	LINE B	JOIN	JOIN
HIGH STD	1,8	4	2,3,5	J
HIGH OPP	1,5	4	2,3,8	J
LOW STD	1,3,8	4	–	2,J,5
LOW OPP	1,3,5	4	–	2,J,8

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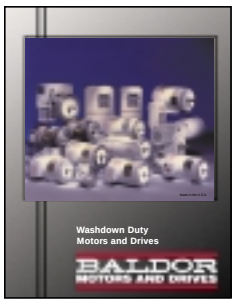

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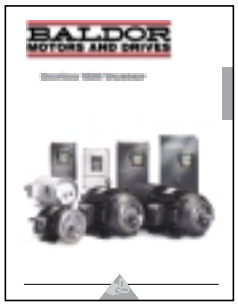

Vector Controls
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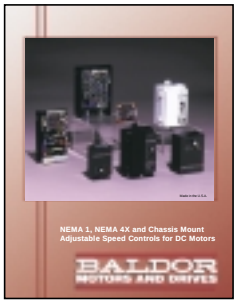
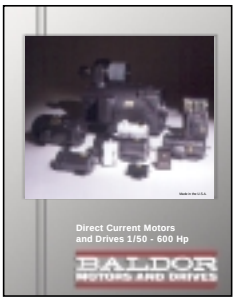
Inverter Drive &
Vector Drive Motors
BR400



DC SCR Controls
BR701



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