

BALDOR • RELIANCE

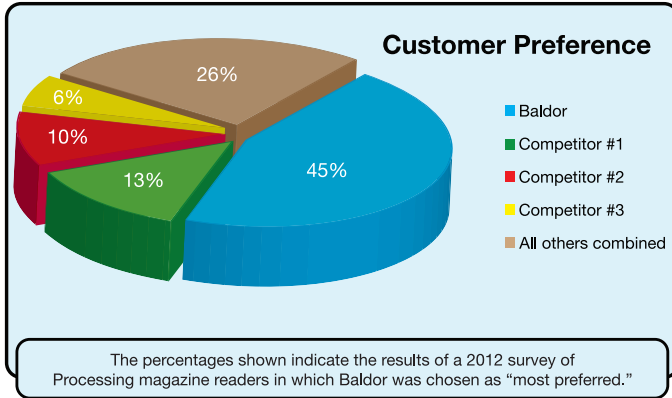


Pump Motors



BALDOR
A MEMBER OF THE ABB GROUP

Why Baldor?



For nearly 100 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•Reliance 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 10,000 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 15,000 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 36 district offices across North America and hundreds of ABB offices around the world, offer immediate availability of Baldor products to thousands of customers.

Continuous innovation to improve reliability.

Baldor leads the motor industry in applying new technologies to improve motor reliability. Recent improvements to the line of Severe Duty motors are further proof that Baldor is the leader in motors for process industry applications. These improvements are explained in detail in the following pages.

Industry's shortest lead times/Flexible manufacturing.

Baldor has the industry's shortest lead times on custom motors – just ten working days. Our unique LEAN 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, the Baldor Web site at www.baldor.com, or you may talk to a Baldor customer service person at one of our sales offices.

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Baldor Pump Motors

Baldor•Reliance is the leading supplier of Pump Motors to meet industrial and commercial applications. From industrial waste water to commercial pool pump motors Baldor•Reliance pump motors provide exceptional value by increasing reliability and reducing maintenance costs.

Baldor also leads the way in helping customers save money in pump applications by using energy efficient designs. Baldor•Reliance Super E Pump Motors provide NEMA Premium efficiency and are designed as standard to be inverter ready with wide variable torque speed ranges.

Over 525 Stock Motor Ratings

Today's line of Baldor Pump motors offers customers some from the highest levels of efficiencies, in ratings from fractional to 15,000 horsepower. Baldor has ratings available immediately from stock, with non-stock motors with the industry's shortest load times.

The Right Pump Motor for your Application

Whether it's a premium efficient pump motor for industrial waste water, sewage treatment facility or processing applications moving fluids in harsh conditions Baldor offers customers a variety of choices. Baldor•Reliance also offers pump motors designed for hazardous area locations common in the petroleum refining, chemical, processing and water treatment.

Baldor•Reliance Close-Coupled & Jet Pump motors are available in a wide variety of construction enclosures from industrial steel band open designs to harsh applications requiring totally enclosed cast iron design. Various mounting provisions from JM, JP and Westcoast are available as stock and custom. Motor construction can be tailored for specific applications and industries such as food processing, washdown applications or explosion proof enclosures for pumps in hazardous areas.

Baldor•Reliance solid shaft Vertical P-Base are the perfect power mates for centrifugal pumps, sump pumps, turbine pumps, in-line process pumps, fans, aerators, mixers, autoclaves, cooling towers and similar applications in industrial environments. These motors are available in a variety of enclosures and thrust values to suit your application. All frames have cast iron construction and premium features to protect motor components from chemicals, corrosion and abrasives, extending motor life and improving performance. Baldor•Reliance NEMA LP and VP motors are designed to meet the American Petroleum Institute Standard 610.

Whether your application is under water or has the potential to be underwater Baldor•Reliance has a motor for you. Baldor offers submersible motors serving both municipal and industrial waste water markets for both wet and dry pit applications. Submersible motors are suitable for hazardous and nonhazardous applications on both sine wave and inverter power. Baldor•Reliance custom immersible motors are designed for use in nonhazardous dry pit applications where the possibility of flooding exists. Baldor•Reliance Immersible motors are the right choice for an application where the features of a submersible



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

motor would not be fully utilized. Immersible motors save on installation cost by eliminating support structure and shaft extensions typically required to mount a pump motor above the high water level of the pit. They also reduce maintenance costs for replacing motors that cannot operate under water.

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."

Minimum Efficiency Performance Standards (MEPS) for electric motors are becoming commonplace throughout the world. The first of these was the Energy Policy Act of 1992 (EPA) that mandated efficiency levels for 1-200 Hp general purpose motors for sale in the U.S. after October 1997. The Energy Independence and Security Act of 2007 (EISA) builds upon EPA and raises the efficiency level for these motors to NEMA Premium® efficiency and adds other configuration and 201-500 Hp ratings for MEPS compliance. Baldor•Reliance Super-E motors manufactured today meet or exceed EISA requirements.

As countries and regions across the world establish minimum efficiency levels for motors, more companies are turning to the Baldor•Reliance 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 The Energy Independence & Security Act of 2007 (EISA) in the U.S., NRC in Canada, and IEC 60034-30 IE3 level in Europe. Super-E motors meet or exceed NEMA Premium® efficiencies.

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•Reliance is recognized as the leader in energy efficient industrial motors and drives.



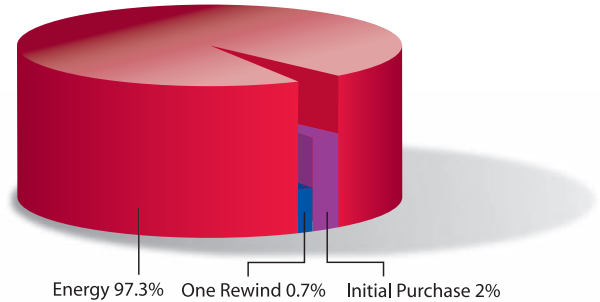
Making Energy Efficiency Work For You

Why is Energy Efficiency Important?

Electric motor-driven systems used in industrial processes consume 63% of all electricity used in U.S. industrial sector according to a U.S. Department of Energy report published in 1998. A 2002 report shows that companies that practiced DOE "best practices" actually averaged 33 percent savings if they 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

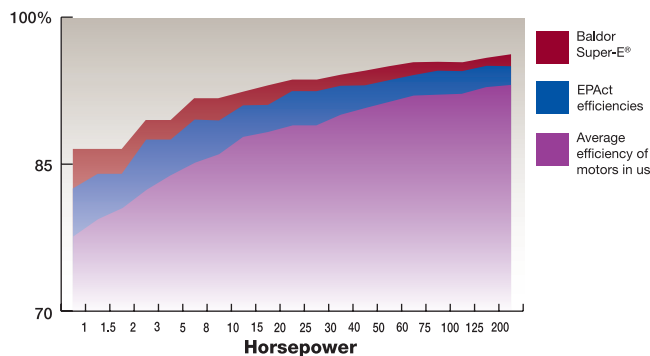
Baldor's line of Super-E motors offers customers the highest level of overall efficiencies available from any motor manufacturer, meeting or exceeding NEMA Premium® efficiency.

BEST™ Baldor Energy Savings Tool Makes Calculating Payback Easy

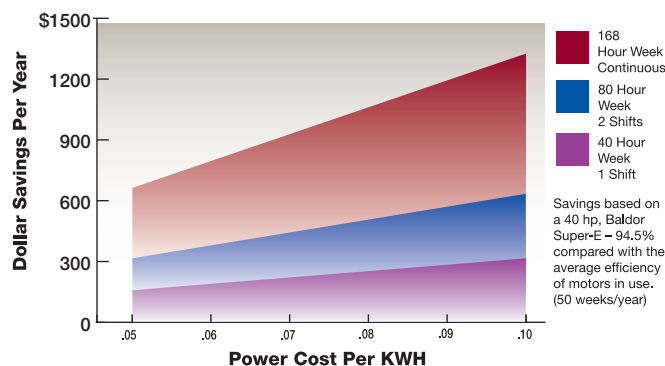
In order to make payback calculations easier for customers, Baldor developed BEST, Baldor Energy Savings Tool. The software helps calculate energy cost and energy savings for motors, as well as payback time frames. A popular feature of BEST is that it allows users to make head-to-head comparisons of up to three motors, giving customers the information to make an informed decision through comparative analysis.

BEST, Baldor Energy Savings Tool is available as a download through Baldor's award-winning Web site (www.baldor.com/support/software_BEST.asp), as well as a stand-alone CD-ROM, available from your Baldor District Office.

Electric Motor Efficiency Ratings



What is Higher Efficiency Worth?



Pump Motor Construction

Our pump line of motors includes single or three phase jet pump motors, square flange motors, close-coupled pump motors, and P-Base vertical solid shaft pump motors. The motors are stocked in totally enclosed fan cooled, open drip proof, and many explosion proof ratings. Applications for these run the gamut from swimming pool pumps to medium and high thrust in-line pumps used in water treatment plants. Horse powers range in size from 1/3 through 75 HP.

The chart below lists standard features ("S") of Baldor's single and three phase pump motors. Frame ranges indicate where certain features are standard in stock products. Optional ("O") indicates additional features available on custom motors, or through Baldor's Mod-Express.

Single and Three Phase Pump Motor Family			
Electrical Features	Jet Pump	Close Coupled JM/JP	Vertical P Base Solid Shaft
Class F insulation with B rise	O	O	S
1.15 Service factor or greater	S	S	S
200° C Inverter spike resistant insulation system	S	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	S	S
Ground Terminal inside main conduit box	S	S	S
Mechanical Features			
NEMA Frame sizes	56	143 - 326	182 - 449
UL Component Recognized and CSA Approved	S	S	S
Steel Band Frame	S	S 182 – 365 ODP S 182 – 215 TEFC	
Cast iron frame		S 254 – 365 TEFC	S
Conduit box rotatable 90° increments		S 254 - 365	S
Die cast aluminum conduit box	S	S	S - ODP
Cast iron conduit box		O	S – TEFC O - ODP
Threaded inlet hole in conduit box	O	O	S
Neoprene conduit box lid gasket & lead separator gasket		O	S
Seal endplate to frame joints	O	O	S
Hardware - zinc 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	O	O	S
Exxon Polyrex EM™ polyurea grease	S	S	S
Grease inlet with grease fitting	O	S	S
Grease inlet with screw-in plug	O	O	O
Grease outlet with screw-in plug		O	O
Grease outlet with automatic relief fitting		S	S
Non-metallic external cooling fan	S	S	S
Castings coated with 2-part epoxy primer and epoxy finish coat	O	O	S
ASTM B117-90 96-hour salt spray test compliance		O	S
Laser etched aluminum nameplate with NEMA data	S	S	
Embossed Stainless steel nameplate with NEMA data	O	O	S
Stainless steel nameplate with bearing and grease data			S
UL 1081 Compliant via Mod Express M30A	O		
Limited Warranty	1 year	Std Eff 18 months Premium Eff 3 year	3 year

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

TEFC/ODP - Pump Motor Capabilities

Single and Three Phase

Single Phase - Typical Frame Size / Speed - RPM

Hp	TEFC		ODP	
	3600	1800	3600	1800
1/3	56C/J	56C/J	56C/J	56C/J
1/2	56C/J	56C/J	56C/J	56C/J
3/4	56C/J	56C/J	56C/J	56C/J
1	56C/J	56C/J	56C/J	56C/J
1.5	56C/J	56C/J	56C/J	56C/J
2	56C/J	56C/J	56C/J	56C/J
3	56C/J or 182JM/JP	56C/J or 184JM/JP	56C/J or 182JM/JP	56C/J or 184JM/JP
5	184JM/JP	184JM/JP or 213JM/JP	184JM/JP	184JM/JP or 213JM/JP
7.5	213JM/JP	215JM/JP	213JM/JP	215JM/JP
10	215JM/JP	215JM/JP	215JM/JP	215JM/JP

Three Phase - Typical Frame Size / Speed - RPM

Hp	TEFC		ODP	
	3600	1800	3600	1800
1/3	56C/J	56C/J	56C/J	56C/J
1/2	56C/J	56C/J	56C/J	56C/J
3/4	56C/J	56C/J	56C/J	56C/J
1	56C/J or 143JM/JP	56C/J or 143JM/JP	56C/J or 143JM/JP	56C/J or 143JM/JP
1.5	56C/J or 143JM/JP	56C/J or 145JM/JP	56C/J or 143JM/JP	56C/J or 145JM/JP
2	56C/J or 145JM/JP	56C/J or 145JM/JP	56C/J or 145JM/JP	56C/J or 145JM/JP
3	56C/J, 145JM/JP or 182JM/JP/HP/LP	56C/J or 182JM/JP/HP/LP	56C/J or 145JM/JP	56C/J or 182JM/JP/HP/LP
5	184JM/JP/HP/LP	184JM/JP/HP/LP	182JM/JP/HP/LP	184JM/JP/HP/LP
7.5	184JM/JP or 213JM/JP/HP/LP/VP	213JM/JP/HP/LP/VP	184JM/JP/HP/LP	213JM/JP/HP/LP/VP
10	215JM/JP/HP/LP/VP	215JM/JP/HP/LP/VP	213JM/JP/HP/LP/VP	215JM/JP/HP/LP/VP
15	215JM/JP or 254JM/JP/HP/LP/VP	254JM/JP/HP/LP/VP	215JM/JP/HP/LP/VP	254JM/JP/HP/LP/VP
20	256JM/JP/HP/LP/VP	256JM/JP/HP/LP/VP	254JM/JP/HP/LP/VP	256JM/JP/HP/LP/VP
25	284JM/JP/HP/LP/VP	284JM/JP/HP/LP/VP	256JM/JP/HP/LP/VP	284JM/JP/HP/LP/VP
30	286JM/JP/HP/LP/VP	286JM/JP/HP/LP/VP	284JM/JP/HP/LP/VP	286JM/JP/HP/LP/VP
40	324JM/JP/HP/LP/VP	324JM/JP/HP/LP/VP	286JM/JP/HP/LP/VP	324JM/JP/HP/LP/VP
50	326JM/JP/HP/LP/VP	326JM/JP/HP/LP/VP	324JM/JP/HP/LP/VP	326JM/JP/HP/LP/VP
60	364JP/HP/LP/VP	364JP/HP/LP/VP	326JM/JP/HP/LP/VP	364JP/HP
75	365JP/HP/LP/VP	365JP/HP/LP/VP	364JP/HP	365JP/HP
100	405HP/LP/VP	405HP/LP/VP	365JP/HP	404HP
125	444HP/LP/VP	444HP/LP/VP	404HP	405HP
150	445HP/LP/VP	445HP/LP/VP	405HP	444HP
200	447HP/LP/VP	447HP/LP/VP	444HP	445HP
250	449HP/LP/VP	449HP/LP/VP	445HP	447HP
300	449HP/LP/VP	449HP/LP/VP	447HP	449HP
350	449HP/LP/VP	449HP/LP/VP	449HP	449HP
400	449HP/LP/VP	449HP/LP/VP	449HP	449HP
450	-	-	449HP	449HP

NOTE: West Coast pump mountings are available in 143 thru 286 frames.

Motors listed with catalog numbers in this brochure are available from stock. Contact Baldor for lead times on non-stock motors.

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 website at www.baldor.com.

Baldor•Reliance Close Coupled Pump Motors

Baldor•Reliance Pump Motors are available in Super-E®, NEMA Premium efficient designs. The same engineering and manufacturing knowledge and experience that go into every horizontal Baldor•Reliance Super-E motor also go into every Baldor•Reliance Close Coupled Pump motor produced.



Fan cover designed to provide maximum cooling and quiet operation

Bi-directional cooling fan designed for low friction and windage losses

End turn lacing on both ends of the winding prevent electrical failures

High-pressure die cast aluminum rotor coated to reduce corrosion

Locked bearing construction reduces shaft endplay

Regreaseable antifriction ball bearings for long motor life

Over-sized conduit box exceeding NEC standards, make connections easier

Electrical grounding terminal inside conduit box

Dual mounting foot holes for easy mounting in replacement applications

Inverter spike resistant insulation system meets the requirements for NEMA MG 1 Part 31.4.4.2 for VFD use and is considered inverter ready

Mobil Polyrex® EM grease for greater bearing protection and improved lubrication life



Drive-end shaft extension meets NEMA requirements for Close-Coupled pump applications.

All Baldor•Reliance Super-E® motors meet or exceed NEMA Premium® efficiency requirements per NEMA MG 1 table 12-12.



Close Coupled Pump Motors Single Phase – TEFC & ODP

Baldor close coupled pump motors are designed to meet the mounting requirements of JM, JP and West Coast Fit residential and industrial pump applications. Construction features include a heavy gauge steel frame, cast aluminum end plates with steel bearing seat inserts for mechanical reliability. These motors have a corrosion resistant finish and are suitable to mount in any position. These single phase designs have Class B insulation and a 1.15 service factor for long life.



Single Phase, 115/208-230, 115/230 and 230 Volt, 3 - 10 HP

Hp	kW	RPM	Frame	Catalog Number	Amps @ High V		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		Volt Code	"C" Dim.	Conn. Diag. No.	Notes
					Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE				
Totally Enclosed Fan Cooled, Mechanical Seal, Type JM																			
3	2.2	3450	182JM	JML3606T	14.5	86	4.5	71	73.5	76	83	88	87	6207	6205	B	18.06	CD0001	1,30
5	3.7	3450	184JM	JML3608T	19.5	128	7.5	81.5	83.9	83	98	98	99	6207	6205	C	19.55	CD0017A02	2,20
Open Drip Proof, Mechanical Seal, Type JM																			
3	2.2	3450	182JM	JML1406T	14	74	4.6	70.7	74.6	78	79	75	88	6207	6205	A	16.50	CD0001	-
3	2.2	1725	184JM	JML1408T	16	107	9	74.9	78.6	78	64	73	78	6207	6205	B	16.50	CD0016A01	30
5	3.7	3500	184JM	JML1409T	21.5	131	7.5	80.7	81.8	80	95	96	96	6207	6205	C	16.50	CD0017A02	1,30
5	3.7	1725	213JM	JML1508T	27	132	15.3	79.4	78	77	58	72	78	6309	6206	C	18.19	CD0017A01	-
7.5	5.6	3450	213JM	JML1509T	37	205	11.3	73.9	78.2	81	65	76	82	6309	6206	C	18.19	CD0017A01	30
7.5	5.6	1725	215JM	JML1510T	31	184	22.5	87.1	88	85.5	77	86	89	6309	6206	C	19.31	CD0017A02	30
10	7.5	3450	215JM	JML1511T	46	280	15	79.3	81.1	83	72	82	86	6309	6206	C	19.31	CD0017A01	1,30
10	7.5	1725	215JM	JML1512T	41	225	30.3	84.6	85.8	84	92	95	94	6309	6206	C	20.95	CD0086	1,30
Open Drip Proof, Packed Pump, Type JP																			
3	2.2	3450	182JP	JPL1406T	14	74	4.6	70.7	74.6	78	79	86	88	6207	6205	B	19.57	CD0001	30
3	2.2	1725	182JP	JPL1408T	16	107	9	74.9	78.6	78	64	73	78	6207	6205	B	19.57	CD0016A01	30
5	3.7	3500	184JP	JPL1409T	21.5	131	7.5	80.7	81.8	80	95	96	96	6207	6205	C	19.57	CD0017A02	1,30
5	3.7	1725	213JP	JPL1508T	27	132	15.3	79.4	78	77	58	72	78	6309	6206	C	22.07	CD0017A01	-
7.5	5.6	3450	213JP	JPL1509T	37	205	11.3	73.9	78.2	81	65	76	82	6309	6206	C	22.07	CD0017A01	30
7.5	5.6	1725	215JP	JPL1510T	31	184	22.5	87.1	88	85.5	77	86	89	6309	6206	C	23.19	CD0017A02	30
10	7.5	3450	215JP	JPL1511T	46	280	15	79.3	81.1	83	82	82	86	6309	6206	C	23.19	CD0017A01	1,30
10	7.5	1725	215JP	JPL1512T	41	225	30.3	84.6	85.8	84	92	95	94	6309	6206	C	20.95	CD0086	1,30
Open Drip Proof, West Coast Fit, Type TCZ																			
3	2.2	3450	182TCZ	WCL1406T	14	74	4.6	70.7	74.6	78	79	86	88	6207	6205	B	19.7	CD0001	30
3	2.2	1725	184TCZ	WCL1408T	16	107	9	74.9	78.6	78	64	73	78	6207	6205	B	19.7	CD0016A01	30
5	3.7	3450	184TCZ	WCL1409T	23	125	7.6	74.5	77.7	75	76	84	88	6207	6205	C	19.7	CD0017A01	1,30
5	3.7	1725	213TCZ	WCL1508T	27	132	15.3	79.4	78	77	58	72	78	6309	6206	C	21.25	CD0017A01	-
7.5	5.6	3450	213TCZ	WCL1509T	37	205	11.3	73.9	78.2	81	65	76	82	6309	6206	C	21.25	CD0017A01	30
10	7.5	3450	215TCZ	WCL1511T	46	280	15	79.3	81.1	83	72	82	86	6309	6206	C	22.38	CD0017A01	1,30

NOTE: Volt Code: Volt Code: A = 115/208-230V, 60Hz; B = 115/230V, 60Hz; C = 230V, 60Hz

1 Class F Insulated Motor with 1.15 Service Factor or higher that operates within Class "B" temperature limits at rated horsepower

2 1.00 Service Factor

20 Class F Insulation

30 Usable at 208 Volt

See pages 56, 57 and 58 for connection diagrams. See pages 38 and 39 for dimensions.

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

Close Coupled Pump Motors Three Phase – TEFC

These motors are designed and manufactured to meet the needs of circulating and transferring fluid applications. The motor flange and shaft are designed to support the pump unit. Close coupled Pump motors include Over-sized ball bearings with locked drive end construction to minimize endplay. These Super-E® motors (EJPM & EJMM) meet NEMA Premium Efficiency requirements, have a 1.15 service factor and Class F insulation.



TEFC - Totally Enclosed Fan Cooled, 230/460 & 575 Volts, Three Phase, 1 - 50 Hp

Hp	kW	RPM	Frame	Catalog Number	Amps @ High V		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		Volt Code	"C" Dim.	Conn. Diag. No.	Notes
					Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE				
230/460 Volt, Foot Mounted																			
1	0.75	1760	143JM	EJMM3546T	1.5	12.1	3	82.1	84.8	85.5	49	62	71	6206	6203	E	15.43	CD0005	1
1	0.75	1750	143JM	JMM3546T	1.6	13.2	3	77.9	81.3	82.5	50	63	73	6206	6203	E	15.43	CD0005	1
1 1/2	1.1	3500	143JM	EJMM3550T	1.9	17.9	2.2	82.2	84.4	84	67	79	85	6206	6203	E	15.43	CD0005	1
1 1/2	1.1	3450	143JM	JMM3550T	2.1	16	2.2	83.9	85.4	82.5	64	75	85	6206	6203	E	15.43	CD0005	1
1 1/2	1.1	1760	145JM	EJMM3554T	2.2	18.3	4.5	84.5	86.8	86.5	51	65	73	6206	6203	E	15.43	CD0005	1
1 1/2	1.1	1755	145JM	JMM3554T	2.4	19	4.4	79.4	83	84	48	62	70	6206	6203	E	15.43	CD0005	1
1 1/2	1.1	1755	145JP	JPM3554T	2.4	19	4.4	79.4	83	84	48	62	70	6206	6203	E	18.50	CD0005	1
2	1.5	3490	145JM	EJMM3555T	2.5	25.9	3	83.5	85.9	85.5	75	84	88	6206	6203	E	15.43	CD0005	1
2	1.5	3450	145JM	JMM3555T	2.6	24.3	3	81.2	83.8	84	73	80	88	6206	6203	E	15.43	CD0005	1
2	1.5	3450	145JP	JPM3555T	2.6	24.3	3	81.2	83.8	84	73	80	88	6206	6203	E	18.50	CD0005	1
2	1.5	1755	145JM	EJMM3558T	2.9	24.3	6	84.2	86.4	86.5	51	64	73	6206	6203	E	16.31	CD0005	1
2	1.5	1750	145JM	JMM3558T	3.1	23.8	6	81	83.6	84	50	63	72	6206	6203	E	15.43	CD0005	1
2	1.5	1750	145JP	JPM3558T	3.1	23.8	6	81	83.6	84	50	63	72	6206	6203	E	18.50	CD0005	1
3	2.2	3450	143JM	EJMM3559T	3.6	33	4.5	87.9	88.2	86.5	81	88	92	6206	6203	E	16.31	CD0005	1
3	2.2	3450	145JM	JMM3559T	3.7	35.5	4.7	86.4	87	85.5	78	86	90	6206	6203	E	16.31	CD0005	1
3	2.2	3450	145JP	JPM3559T	3.7	35.5	4.7	86.4	87	85.5	78	86	90	6206	6203	E	19.37	CD0005	1
3	2.2	3450	182JM	EJMM3610T	3.6	33	4.5	87.9	88.2	86.5	81	88	92	6207	6203	E	16.84	CD0005	1
3	2.2	3450	182JM	JMM3610T	3.7	35.5	4.7	86.4	87	85.5	78	86	90	6207	6203	E	16.84	CD0005	1
3	2.2	3450	182JP	JPM3610T	3.7	35.5	4.7	86.4	87	85.5	78	86	90	6207	6203	E	19.87	CD0005	1
3	2.2	1760	182JM	EJMM3611T	4.2	32	8.9	87.8	89.5	89.5	54	68	75	6207	6205	E	18.06	CD0005	1
3	2.2	1750	182JM	JMM3611T	4.2	36.6	9.1	86.5	87.8	87.5	58	71	78	6207	6203	E	18.22	CD0005	1,35
3	2.2	1750	182JP	JPM3611T	4.2	36.6	9.1	86.5	87.8	87.5	58	71	78	6207	6203	E	21.28	CD0005	1,35
5	3.7	3450	184JM	EJMM3613T	5.9	57.2	7.6	88.4	89.1	88.5	81	88	91	6207	6205	E	18.06	CD0005	1
5	3.7	3450	184JM	JMM3613T	5.8	54	7.7	87.8	88.3	87.5	81	89	93	6207	6205	E	18.06	CD0005	1
5	3.7	3450	184JP	JPM3613T	5.8	54	7.7	87.8	88.3	87.5	81	89	93	6207	6205	E	21.43	CD0005	1
5	3.7	1750	184JM	EJMM3615T	6.7	49.1	14.9	89.7	90.3	89.5	60	72	78	6207	6205	E	19.56	CD0005	1
5	3.7	1750	184JM	JMM3615T	6.8	47.9	14.9	87.3	88.3	87.5	59	72	78	6207	6205	E	19.56	CD0005	1,35
5	3.7	1750	184JP	JPM3615T	6.8	48	14.9	87.3	88.3	87.5	59	72	78	6207	6205	E	22.93	CD0005	1,35
7 1/2	5.6	3450	184JM	EJMM3616T	8.4	91	11.4	90.6	90.7	89.5	85	90	93	6207	6205	E	19.56	CD0005	1
7 1/2	5.6	3450	184JM	JMM3616T	8.7	98.8	11.5	88.4	89.3	88.5	83	91	93	6207	6205	E	19.56	CD0005	1,35
7 1/2	5.6	3450	184JP	JPM3616T	8.7	98.8	11.5	88.4	89.3	88.5	83	91	93	6207	6205	E	22.93	CD0005	1,35
7 1/2	5.6	3470	213JM	EJMM3709T	8.6	63.1	11.1	89.2	90.1	89.5	80	87	90	6309	6206	F	19.81	CD0005	1,35
7 1/2	5.6	3450	213JM	JMM3709T	8.7	98.8	11.5	88.4	89.3	88.5	83	91	93	6307	6205	E	20.40	CD0005	1,35
7 1/2	5.6	3480	213JP	JPM3709T	9.5	59.6	11.2	88.3	89.2	88.5	68	80	84	6309	6206	E	23.66	CD0005	1
7 1/2	5.6	3450	213TCZ	WCM3709T	8.7	98.8	11.5	88.4	89.3	88.5	83	91	93	6307	6205	E	23.45	CD0005	1,35
7 1/2	5.6	1770	213JM	EJMM3710T	9.4	70.1	22.4	92.2	92.7	91.7	63	75	81	6309	6206	E1	20.94	CD0005	1, 30, 35
7 1/2	5.6	1770	213JM	JMM3710T	10.1	77.5	22.2	88.1	89.7	89.5	58	71	77	6309	6206	E	19.76	CD0005	1,35
7 1/2	5.6	1770	213JP	JPM3710T	10.1	77.5	22.2	88.1	89.7	89.5	58	71	77	6309	6206	E	23.66	CD0005	1,35
7 1/2	5.6	1770	213TCZ	WCM3710T	10.1	77.5	22.2	88.1	89.7	89.5	58	71	77	6309	6206	E	22.82	CD0005	1,35
10	7.5	3490	215JM	EJMM3711T	11.8	78.5	15	91	91.3	90.2	74	84	87	6309	6206	E	19.81	CD0005	1
10	7.5	3490	215JM	JMM3711T	12	81.8	15	89.9	90.5	89.5	74	84	87	6309	6206	E	19.76	CD0005	1
10	7.5	3490	215JP	JPM3711T	12	81.8	15	89.9	90.5	89.5	74	84	87	6309	6206	E	23.66	CD0005	20
10	7.5	3490	215TCZ	WCM3711T	12	81.8	15	89.9	90.5	89.5	74	84	87	6309	6206	E	22.82	CD0005	20

NOTE: Volt Code: E = 208-230/460V, 60Hz; E1 = 230/460V, 60Hz, usable at 208V; F = 230/460V, 60Hz; H = 575V, 60 Hz
1 Class F Insulated Motor with 1.15 Service Factor or higher that operates within Class "B" temperature limits at rated horsepower

35 NEMA Design A
See page 56 for connection diagrams. See pages 32 and 33 for dimensions.
Efficiencies shown are nominal. Data subject to change without notice. Contact Baldor for certified data.

Shaded ratings are cast iron frames.

TEFC - Totally Enclosed Fan Cooled, 230/460 & 575 Volts, Three Phase, 1 - 50 Hp

Hp	kW	RPM	Frame	Catalog Number	Amps @ High V		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		Volt Code	"C" Dim.	Conn. Diag. No.	Notes
					Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE				
575 Volt, Foot Mounted																			
1	0.75	1800	143JM	JMM3546T-5	1.3	10.6	2.99	77.9	81.3	82.5	50	62	72	6206	6203	H	15.43	CD0006	1
1 1/2	1.1	3600	143JM	JMM3550T-5	1.6	14.4	2.2	80.1	82.6	83	76	85	89	6206	6203	H	15.43	CD0006	
1 1/2	1.1	1800	145JM	JMM3554T-5	1.9	15.2	4.43	79.1	83.1	84.1	48	61	70	6206	6203	H	15.43	CD0006	1
2	1.5	3600	145JM	JMM3555T-5	2.1	19.5	3	81.2	83.8	84.2	73	80	85	6206	6203	H	15.43	CD0006	
2	1.5	1800	145JM	JMM3558T-5	2.5	18.9	5.96	80.9	83.5	84.2	50	63	72	6206	6203	H	15.43	CD0006	1
3	2.2	3600	145JM	JMM3559T-5	3	30	4.5	82.9	85.1	85.5	78	86	90	6206	6203	H	16.31	CD0006	1
3	2.2	3600	182JM	JMM3610T-5	2.8	28.7	4.5	84.7	86.6	86.9	79	87	92	6207	6205	H	16.69	CD0006	
3	2.2	1800	182JM	JMM3611T-5	3.3	28.9	9.09	86.3	87.8	87.7	59	71	78	6207	6203	H	18.22	CD0006	1, 35
5	3.7	3600	184JM	JMM3613T-5	4.8	44	7.6	87.9	88.4	87.8	83	89	92	6207	6205	H	18.06	CD0006	1
5	3.7	1800	184JM	JMM3615T-5	5.5	39	15	86.7	87.5	87.7	59	72	78	6207	6205	H	18.06	CD0006	1, 35
7 1/2	5.6	3600	184JM	JMM3616T-5	7	75	11.3	88.4	89.4	88.7	83	90	93	6207	6205	H	19.56	CD0006	20
7 1/2	5.6	1800	213JM	JMM3710T-5	8.1	61.4	22.2	88.4	89.6	90.1	59	71	77	6309	6206	H	19.81	CD0006	1, 35
10	7.5	3600	215JM	JMM3711T-5	9.6	66.1	15	89.9	90	89.9	74	84	87	6309	6206	H	19.81	CD0006	20
10	7.5	1800	215JM	JMM3714T-5	10.8	85.5	29.5	88.5	89.4	89.6	58	70	77	6309	6206	H	20.94	CD0006	1, 35
15	11	3600	215JM	JMM3713T-5	13.8	96	22.7	91.6	92.4	90.4	83	88	90	6309	6206	H	21.69	CD0006	1, 35
15	11	3600	254JM	JMM2394T-5	13.7	103	22.4	90.4	91.2	90.5	81	87	90	6309	6307	H	23.07	CD0006	1, 35
15	11	1800	254JM	JMM2333T-5	15.2	126	44.6	91	91.7	91.4	66	76	82	6309	6307	H	23.07	CD0006	1, 35
230/460 Volt, Footless																			
1	0.75	1760	143JM	VEJMM3546T	1.5	12.1	3	82.1	84.8	85.5	49	62	71	6206	6203	E	14.43	CD0005	1
1	0.75	1750	143JM	VJMM3546T	1.6	13.2	3	77.9	81.3	82.5	50	63	73	6206	6203	E	14.43	CD0005	1
1 1/2	1.1	1760	145JM	VEJMM3554T	2.2	18.3	4.5	84.5	86.8	86.5	51	65	73	6206	6203	E	15.43	CD0005	1
1 1/2	1.1	1755	145JM	VJMM3554T	2.4	19	4.43	79.4	83	84	48	62	70	6206	6203	E	15.43	CD0005	1
2	1.5	1755	145JM	VEJMM3558T	2.9	24.3	6	84.2	86.4	86.5	51	64	73	6206	6203	E	16.31	CD0005	1
2	1.5	1750	145JM	VJMM3558T	3.1	23.8	6	81	83.6	84	50	63	72	6206	6203	E	15.43	CD0005	1
3	2.2	1760	182JM	VEJMM3611T	4.2	32	8.9	87.8	89.5	89.5	54	68	75	6207	6205	E	18.05	CD0005	1
3	2.2	1750	182JM	VJMM3611T	4.2	36.6	9.1	86.5	87.8	87.5	58	71	78	6207	6203	E	18.18	CD0005	1
5	3.7	1750	184JM	VEJMM3615T	6.7	49.1	14.9	89.7	90.3	89.5	60	72	78	6207	6205	E	19.7	CD0005	1
5	3.7	1745	184JM	VJMM3615T	6.8	48.4	15	87.1	88.3	87.5	59	72	78	6207	6205	E	18.05	CD0005	1,35
7 1/2	5.6	1770	213JM	VEJMM3710T	9.4	70.1	22.4	92.2	92.7	91.7	63	75	81	6309	6206	E1	20.92	CD0005	1, 30, 35
7 1/2	5.6	1770	213JM	VJMM3710T	10.1	77.5	22.2	88.1	89.7	89.5	58	71	77	6309	6206	E	19.76	CD0005	1,35
10	7.5	1770	215JM	VEJMM3714T	12	103	29.5	92.1	92.4	91.7	66	79	85	6309	6206	E	22.4	CD0005	1, 35
10	7.5	1770	215JM	VJMM3714T	13.5	107	29.5	88.2	89.6	89.5	58	70	77	6309	6206	E	20.92	CD0005	1,35
15	11	1760	254JM	VJMM2333T	18.5	147.3	44.6	91.6	92.1	91	68	78	83	6309	6307	E	21.82	CD0005	1,35
20	15	1760	256JM	VJMM2334T	24	152	59.8	91.1	91.9	91	70	80	85	6309	6208	E1	25.28	CD0180	1, 30
575 Volt, Footless																			
1	0.75	1800	143JM	VJMM3546T-5	1.3	10.6	2.99	77.9	81.3	82.5	50	62	72	6206	6203	H	14.43	CD0006	1
1 1/2	1.1	1800	145JM	VJMM3554T-5	1.9	15.2	4.43	79.1	83.1	84.1	48	61	70	6206	6203	H	15.43	CD0006	1
2	1.5	1800	145JM	VJMM3558T-5	2.5	18.9	5.96	80.9	83.5	84.2	50	63	72	6206	6203	H	15.43	CD0006	1
3	2.2	1800	182JM	VJMM3611T-5	3.3	28.9	9.09	86.3	87.8	87.7	59	71	78	6207	6203	H	18.2	CD0006	1, 35
5	3.7	1800	184JM	VJMM3615T-5	5.2	41	15	87.3	88.4	87.9	63	74	80	6207	6205	H	19.55	CD0006	1
7 1/2	5.6	1800	213JM	VJMM3710T-5	8.1	61.4	22.2	88.4	89.6	90.1	59	71	77	6309	6206	H	19.79	CD0006	1, 35
10	7.5	1800	215JM	VJMM3714T-5	10.8	85.5	29.5	88.5	89.4	89.6	58	70	77	6309	6206	H	20.92	CD0006	1, 35
15	11	1800	254JM	VJMM2333T-5	15.2	126	44.6	91	91.7	91.4	66	76	82	6309	6307	H	21.82	CD0006	1, 35
20	15	1800	256JM	VJMM2334T-5	19.1	123	60	91	91.6	91.3	72	82	86	6309	6208	H	25.28	CD0006	1

NOTE: Volt Code: E = 208-230/460V, 60Hz; E1 = 230/460V, 60Hz, usable at 208V; F = 230/460V, 60Hz; H = 575V, 60 Hz
 1 Class F Insulated Motor with 1.15 Service Factor or higher that operates within Class "B" temperature limits at rated horsepower
 30 Usable at 208 Volts
 35 NEMA Design A
 See pages 56 and 57 for connection diagrams. See page 32 for dimensions.
 Efficiencies shown are nominal. Data subject to change without notice. Contact Baldor for certified data.

Close Coupled Pump Motors Three Phase - ODP

These motors are designed and manufactured to meet the needs of circulating and transferring fluid applications. The motor flange and shaft are designed to support the pump unit. Close coupled Pump motors include Over-sized ball bearings with locked drive end construction to minimize endplay. Open Drip Proof frame designs include rodent screens on both ends. Super-E motors (EJMM, EJPM & VEJM) meet NEMA Premium Efficiency requirements, have a 1.15 service factor and Class F insulation.



ODP - Open Drip Proof, 230/460 & 575 Volts, Three Phase, 1 - 75 Hp

Hp	kW	RPM	Frame	Catalog Number	Amps @ High V		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		Volt Code	"C" Dim.	Conn. Diag. No.	Notes
					Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE				
230/460 Volt, C-Face Footmounted																			
1	0.75	1760	143JM	EJMM3116T	1.5	12.1	3	82.1	84.8	85.5	49	62	71	6206	6203	E	13.75	CD0005	1
1	0.75	1750	143JM	JMM3116T	1.6	13.2	3	49	77.6	81.8	49	63	73	6206	6203	E	13.75	CD0005	-
1	0.75	1750	143JP	JPM3116T	1.6	13.2	3	77.6	81.8	82.5	49	63	73	6206	6203	E	16.81	CD0005	-
1 1/2	1.1	3450	143JM	JMM3120T	2.1	16	2.2	83.9	85.4	82.5	64	75	85	6206	6203	E	13.75	CD0005	1
1 1/2	1.1	1755	145JM	EJMM3154T	2.2	17.5	4.5	83.5	86	86.5	50	63	72	6206	6203	F	13.75	CD0005	1, 30
1 1/2	1.1	1760	145JM	JMM3154T	2.4	18.6	4.4	79.7	83.4	84	46	60	69	6206	6203	E	13.75	CD0005	-
1 1/2	1.1	1760	145JP	JPM3154T	2.4	18.6	4.4	79.7	83.4	84	46	60	69	6206	6203	E	16.81	CD0005	-
2	1.5	3450	145JM	EJMM3155T	2.5	21.5	3	85.2	86.8	85.5	72	82	87	6206	6203	E	13.75	CD0005	1
2	1.5	3450	145JM	JMM3155T	2.6	22	3	81.7	84.3	84	71	81	87	6206	6203	E	13.75	CD0005	-
2	1.5	1750	145JM	EJMM3157T	2.9	24.3	6	84.4	86.6	86.5	51	64	73	6206	6203	F	14.25	CD0005	1, 30
2	1.5	1755	145JM	JMM3157T	3.2	23.4	5.9	79.6	83.3	84	48	61	71	6206	6203	E	13.75	CD0005	-
2	1.5	1755	145JP	JPM3157T	3.2	23.4	5.9	79.6	83.3	84	48	61	71	6206	6203	E	16.81	CD0005	-
3	2.2	3450	145JM	EJMM3158T	3.8	32.5	4.5	83.8	85.4	85.5	72	82	87	6206	6203	E1	15.13	CD0005	1, 30
3	2.2	3450	145JM	JMM3158T	3.7	32.1	4.7	84	85.1	84	78	86	89	6206	6203	E	14.25	CD0005	-
3	2.2	3450	145JP	JPM3158T	3.7	32.1	4.7	84	85.3	84	76	86	89	6206	6203	E	17.31	CD0005	1
3	2.2	1765	182JM	EJMM3211T	4.2	32.3	8.9	87.5	89.5	89.5	53	66	73	6207	6205	E1	16.5	CD0005	1, 30
3	2.2	1745	182JM	JMM3211T	4.1	31.5	9.1	85.6	87.2	86.5	62	74	80	6207	6203	E	16.25	CD0005	1
3	2.2	1745	182JP	JPM3211T	4.1	31.5	9.1	85.6	87.2	86.5	62	74	80	6207	6203	E	19.31	CD0005	1
5	3.7	3450	182JM	EJMM3212T	6	50.7	7.7	86.7	87.6	86.5	81	88	91	6207	6205	E	15.12	CD0005	1, 35
5	3.7	3450	182JM	JMM3212T	6.1	53.1	7.8	86	86.7	85.5	77	85	89	6207	6203	E	15.63	CD0005	-
5	3.7	3450	182JP	JPM3212T	6.1	53.1	7.8	86	86.7	85.5	77	85	89	6207	6203	E	18.69	CD0005	-
5	3.7	3450	182TCZ	WCM3212T	6.1	53.1	7.8	86	86.7	85.5	77	85	89	6307	6203	E	19.13	CD0005	1
5	3.7	1750	184JM	EJMM3218T	6.6	44.8	15	89.7	90.2	89.5	64	75	80	6207	6205	E	18	CD0005	1
5	3.7	1750	184JM	JMM3218T	7.2	48	14.8	85.4	87.5	87.5	53	66	74	6207	6205	E	16.5	CD0005	1, 35
5	3.7	1750	184JP	JPM3218T	7.2	48	14.8	85.4	87.5	87.5	53	66	74	6207	6205	E	19.56	CD0005	1, 35
5	3.7	1160	215JM	JMM3309T	7.6	49.9	22.6	87.7	88.7	87.5	52	63	70	6309	6206	E	18.19	CD0005	35
7 1/2	5.6	3450	184JM	EJMM3219T	8.6	86.3	11.3	88.1	89.2	88.5	80	87	91	6207	6205	E	16.5	CD0005	1, 35
7 1/2	5.6	3450	184JM	JMM3219T	8.7	74.3	11.4	88.4	88.7	87.5	78	89	92	6207	6205	E	16.5	CD0005	1
7 1/2	5.6	3450	184JP	JPM3219T	8.7	74.3	11.4	88.4	88.7	87.5	78	89	92	6207	6205	E	19.56	CD0005	1
7 1/2	5.6	3450	184TCZ	WCM3219T	8.7	74.3	11.4	88.4	88.7	87.5	78	89	92	6207	6205	E	19.69	CD0005	1
7 1/2	5.6	1770	213JM	EJMM3311T	9.7	68.2	22.1	90.5	91.4	91	92	73	79	6309	6206	E1	18.19	CD0005	1, 30, 35
7 1/2	5.6	1750	213JM	JMM3311T	9.9	70.6	22.6	88.9	89.4	88.5	62	74	80	6307	6205	E	18.84	CD0005	1, 35
7 1/2	5.6	1770	213JP	JPM3311T	10.1	77.5	22.2	86.7	88.6	88.5	59	71	77	6309	6206	E	20.94	CD0005	1, 35
7 1/2	5.6	1160	254JM	JMM2506T	11.2	80.9	33.6	89.2	89.8	88.5	52	64	70	6309	6206	E	21.81	CD0005	1, 35
10	7.5	3500	213JM	EJMM3312T	11.4	98	15	90.9	92	90.2	81	87	90	6309	6206	E	19.31	CD0005	1
10	7.5	3500	213JP	EJPM3312T	11.4	98	15	90.9	92.4	90.2	86	89	90	6309	6206	E	22.07	CD0005	1
10	7.5	3500	213JM	JMM3312T	12.4	81.5	15	89.2	90.2	88.5	69	79	84	6309	6206	E	18.19	CD0005	1
10	7.5	3500	213JP	JPM3312T	12.4	81.5	15	89.2	90.2	88.5	69	79	84	6309	6206	E	20.94	CD0005	1
10	7.5	3500	213TCZ	WCM3312T	12.4	81.5	15	89.2	90.2	88.5	69	79	84	6309	6206	E	21.25	CD0005	-
10	7.5	1770	215JM	EJMM3313T	12.5	88.3	29.7	91.6	92.3	91.7	66	77	82	6309	6206	E1	19.31	CD0005	1, 30
10	7.5	1770	215JP	EJPM3313T	12.5	88.3	29.7	91.7	92.2	91.7	66	77	82	6309	6206	E	22.07	CD0005	1
10	7.5	1765	215JM	JMM3313T	13.4	93.5	29.7	88.5	89.9	89.5	59	71	78	6309	6206	E	18.19	CD0005	1, 35
10	7.5	1765	215JP	JPM3313T	13.4	93.5	29.7	88.5	89.9	89.5	59	71	78	6309	6206	E	22.1	CD0005	1, 35
10	7.5	1180	256JM	JMM2511T	14.7	83.9	44.5	88	89.5	90.2	54	65	71	6309	6208	E1	24.69	CD0180	30
15	11	3525	215JM	EJMM3314T	17.5	143	22.5	91.9	92.3	90.2	80	87	89	6309	6206	E	18.19	CD0005	1
15	11	3525	215JP	EJPM3314T	17.5	143	22.5	91.9	92.3	90.2	80	87	89	6309	6206	E	20.94	CD0005	1

NOTE: Volt Code: E = 208-230/460V, 60Hz; E1 = 230/460V, 60Hz, usable at 208V; F = 230/460V, 60Hz; H = 575V, 60 Hz
 1 Class F Insulated Motor with 1.15 Service Factor or higher that operates within Class "B" temperature limits at rated horsepower
 30 Usable at 208 Volts
 35 NEMA Design A
 See pages 56 and 57 for connection diagrams. See pages 35 and 36 for dimensions.
 Efficiencies shown are nominal. Data subject to change without notice. Contact Baldor for certified data.

ODP - Open Drip Proof, 230/460 & 575 Volts, Three Phase, 1 - 75 Hp

Hp	kW	RPM	Frame	Catalog Number	Amps @ High V		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		Volt Code	"C" Dim.	Conn. Diag. No.	Notes
					Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE				
15	11	3500	215JM	JMM3314T	18	115	22.5	90.7	91	89.5	72	82	86	6309	6206	E	18.19	CD0005	1
15	11	3500	215JP	JPM3314T	18	115	22.5	90.7	91	89.5	72	82	86	6309	6206	E	20.94	CD0005	1
15	11	3500	215TCZ	WCM3314T	18	115	22.5	90.7	91	89.5	72	82	86	6309	6206	E	21.25	CD0005	1
15	11	1765	254JM	EJMM2513T	17.7	118	44.6	93.3	93.5	93	70	81	86	6309	6208	E1	23.19	CD0180	1, 30
15	11	1765	254JP	EJPM2513T	17.7	211	44.8	93.7	93.7	93	82	88	90	6309	6208	E	26.06	CD0180	1
15	11	1760	254JM	JMM2513T	19	135.7	44.7	90.8	91.5	91	64	75	81	6309	6206	E	21.06	CD0005	1,35
15	11	1760	254JP	JPM2513T	19	135.7	44.7	90.8	91.5	91	64	75	81	6309	6206	E	23.94	CD0005	1,35
15	11	1175	284JM	JMM2524T	21.3	126.5	66.8	89.3	90.3	90.2	58	68	73	6312	6208	E1	27.56	CD0180	30
20	15	3510	254JM	EJMM2514T	23.5	153	29.6	90.1	91.2	91	74	83	87	6309	6208	E1	23.19	CD0180	1, 30
20	15	3525	254JP	EJPM2514T	23.5	139	30	91.4	91.8	91	80	86	88	6309	6208	E1	26.06	CD0180	1, 30
20	15	3525	254JM	JMM2514T	24	153	30	89	90.4	90.2	73	82	86	6309	6208	E	23.19	CD0180	-
20	15	3525	254JP	JPM2514T	24	153	30	89	90.4	90.2	73	82	86	6309	6208	E1	26.06	CD0180	30
20	15	1765	256JM	EJMM2515T	23.5	160.8	59.4	92.5	93.2	93	71	81	86	6309	6208	E1	23.19	CD0180	1, 30
20	15	1765	256JP	EJPM2515T	23.5	160.8	59.4	92.5	93.2	93	71	81	86	6309	6208	E1	26.06	CD0180	1, 30
20	15	1760	256JM	JMM2515T	24.8	119	59.3	92	91.9	91	68	78	82	6309	6206	E1	23.56	CD0005	1, 30
20	15	1760	256JP	JPM2515T	24.8	119	59.3	92	91.9	91	68	78	82	6309	6206	E1	26.44	CD0005	1, 30
25	19	3515	256JM	EJMM2516T	28	197	37.2	91.8	92.3	91.7	79	86	89	6309	6208	E1	23.19	CD0180	1, 30
25	19	3530	256JP	EJPM2516T	29	204	37	93.2	92.9	91.7	77	83	87	6309	6208	E1	26.06	CD0180	1, 30
25	19	3510	256JM	JMM2516T	29	187	37.3	91	91.6	91	78	86	89	6309	6208	E1	23.19	CD0180	30
25	19	3510	256JP	JPM2516T	29	187	37.3	91	91.6	91	78	86	89	6309	6208	E1	26.06	CD0180	30
25	19	1760	284JM	EJMM2531T	29	180	74	93.2	93.9	93.6	72	82	86	6312	6309	F	24.69	CD0180	1
25	19	1760	284JP	EJPM2531T	29	180	74	93.2	93.9	93.6	72	82	86	6312	6309	E1	27.57	CD0180	1, 30
25	19	1760	284JM	JMM2531T	31	191.3	74.6	91.5	92.1	91.7	69	79	83	6312	6208	E1	25.06	CD0005	30
25	19	1760	284JP	JPM2531T	31	191.3	74.6	91.5	92.1	91.7	69	79	83	6312	6208	E1	27.94	CD0005	30
30	22	3510	284JM	EJMM2534T	33	207	45	92.5	92.6	91.7	87	91	92	6312	6208	F	26.56	CD0005	1, 30
30	22	3510	284JP	EJPM2534T	33	207	45	92.5	92.6	91.7	87	91	92	6312	6208	F	29.44	CD0005	1, 30
30	22	3510	284JM	JMM2534T	35	214	44.9	92.2	92.3	91	80	87	89	6312	6208	E1	25.06	CD0180	30
30	22	3510	284JP	JPM2534T	35	214	44.9	92.2	92.3	91	80	87	89	6312	6208	E1	27.94	CD0180	30
30	22	1770	286JM	EJMM2535T	35	223.6	88.9	93.6	94.2	94.1	72	82	85	6312	6309	F	25.94	CD0005	1, 30
30	22	1770	286JP	EJPM2535T	35	223.6	88.9	93.6	94.2	94.1	72	82	85	6312	6309	E1	28.82	CD0005	1, 30
30	22	1760	286JM	JMM2535T	36	244	89.4	92	92.7	92.4	69	79	84	6312	6208	E1	26.56	CD0180	30
30	22	1760	286JP	JPM2535T	36	244	89.4	92	92.7	92.4	69	79	84	6312	6208	E1	29.44	CD0180	30
40	30	3510	286JM	EJMM2538T	45	326	60.7	94.1	93.8	92.4	82	88	90	6312	6208	F	26.56	CD0180	1, 30
40	30	3510	286JP	EJPM2538T	45	326	60.7	94.1	93.8	92.4	82	88	90	6312	6208	F	29.44	CD0180	1, 30
40	30	3500	286JM	JMM2538T	45	310	60	93	92.8	91.7	84	89	91	6312	6208	E1	26.56	CD0180	30
40	30	3500	286JP	JPM2538T	45	310	60	93	92.8	91.7	84	89	91	6312	6208	E1	29.44	CD0180	30
40	30	1770	324JM	EJMM2539T	49	330	119	94	94.5	94.1	65	76	82	6312	6309	F	27.44	CD0005	1,30, 35
40	30	1775	324JP	EJPM2539T	47	280	118	93.6	94.4	94.1	76	82	84	6312	6311	E1	29.82	CD0180	1, 30
40	30	1770	324JM	JMM2539T	49	286	119	92.8	93.4	93	69	79	83	6312	6309	E1	26.44	CD0005	1, 30
40	30	1770	324JP	JPM2539T	49	286	119	92.8	93.4	93	69	79	83	6312	6309	E1	29.31	CD0005	1, 30
50	37	3530	324JM	EJMM2542T	55	408	74.2	94.7	94.8	93	82	87	90	6312	6309	E	27.44	CD0180	1
50	37	3530	324JP	EJPM2542T	55	408	74.2	94.7	94.8	93	82	87	90	6312	6309	F	30.31	CD0180	1
50	37	3520	324JM	JMM2542T	58	366	74.7	93.2	93.3	92.4	78	85	87	6312	6309	E1	26.44	CD0180	30
50	37	3520	324JP	JPM2542T	58	366	74.7	93.2	93.3	92.4	78	85	87	6312	6309	E1	29.31	CD0180	30
50	37	1775	326JM	EJMM2543T	57	378	148	94.5	94.9	94.5	75	84	87	6312	6311	F	27.94	CD0180	1, 30
50	37	1775	326JP	EJPM2543T	57	378	148	94.5	94.9	94.5	75	84	87	6312	6311	E1	30.82	CD0180	1, 30
50	37	1765	326JM	JMM2543T	62	385	149	92.4	93.2	93	67	77	81	6312	6309	E1	27.44	CD0180	30
50	37	1765	326JP	JPM2543T	62	385	149	92.4	93.2	93	67	77	81	6312	6309	E1	30.32	CD0180	30
60	45	3520	326JM	EJMM2546T	68	472	89.3	93.3	93.4	93	81	87	89	6312	6309	E1	26.44	CD0180	30
60	45	1770	364JP	JPM2547T	72	433	178	93.6	94.1	93.6	71	79	83	6313	6311	E1	30.44	CD0180	30
75	56	1770	365JP	JPM2551T	88	551	222	93.9	94.5	94.1	74	82	85	6313	6311	E1	32.44	CD0180	30

NOTE: Volt Code: E = 208-230/460V, 60Hz; E1 = 230/460V, 60Hz, usable at 208V; F = 230/460V, 60Hz; H = 575V, 60 Hz

1 Class F Insulated Motor with 1.15 Service Factor or higher that operates within Class "B" temperature limits at rated horsepower

30 Usable at 208 Volts

35 NEMA Design A

See pages 56 and 57 for connection diagrams. See pages 35 and 36 for dimensions.

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

ODP - Open Drip Proof, 230/460 & 575 Volts, Three Phase, 1 - 75 Hp

Hp	kW	RPM	Frame	Catalog Number	Amps @ High V		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		Volt Code	"C" Dim.	Conn. Diag. No.	Notes
					Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE				
260/460 Volt, C-Face Footless																			
1	0.75	1760	143JM	VEJMM3116T	1.5	12.1	3	82.1	84.8	85.5	49	62	71	6206	6203	E	14.43	CD0005	1
1	0.75	1750	143JM	VJMM3116T	1.6	13.2	3	77.6	81.8	82.5	49	63	73	6206	6203	E	14.43	CD0005	-
1 1/2	1.1	1755	145JM	VEJMM3154T	2.2	17.5	4.5	83.5	86	86.5	50	63	72	6206	6203	F	15.43	CD0005	1
1 1/2	1.1	1755	145JM	VJMM3154T	2.4	19	4.4	79.4	83	84	48	62	70	6206	6203	E	15.43	CD0005	1
2	1.5	1750	145JM	VEJMM3157T	2.9	24.3	6	84.4	86.6	86.5	51	64	73	6206	6203	F	15.43	CD0005	1, 30
2	1.5	1755	145JM	VJMM3157T	3.2	23.4	5.9	79.8	83.4	84	48	62	71	6206	6203	E	15.43	CD0005	1
3	2.2	3450	145JM	VJMM3158T	3.7	32.1	4.7	84	85.3	84	76	86	89	6206	6203	E	15.43	CD0005	1
3	2.2	1765	184JM	VEJMM3211T	4.2	32.3	8.9	87.5	89.5	89.5	53	66	73	6207	6205	E1	18.06	CD0005	1, 30
3	2.2	1745	182JM	VJMM3211T	4.1	31.5	9.1	85.6	87.2	86.5	62	74	80	6207	6203	E	18.22	CD0005	1
5	3.7	3450	182JM	VJMM3212T	6.1	53.1	7.8	86	86.7	85.5	77	85	89	6207	6203	E	16.84	CD0005	-
5	3.7	1750	184JM	VEJMM3218T	6.6	44.8	15	89.7	90.2	89.5	64	75	80	6207	6205	E	19.56	CD0005	1
5	3.7	1750	184JM	VJMM3218T	7.2	48	14.8	85.4	87.5	87.5	53	66	74	6207	6205	E	18.06	CD0005	1, 35
7 1/2	5.6	3450	184JM	VJMM3219T	8.7	74.3	11.4	88.4	88.7	87.5	78	89	92	6207	6205	E	18.06	CD0005	1
7 1/2	5.6	1770	213JM	VEJMM3311T	9.6	67.5	22.2	89.6	91.5	91	61	74	80	6309	6206	E1	19.78	CD0005	1, 30, 35
7 1/2	5.6	1770	213JM	VJMM3311T	10.1	77.5	22.2	86.7	88.6	88.5	59	71	77	6309	6206	E	19.78	CD0005	1, 35
10	7.5	3500	213JM	VJMM3312T	12.4	81.5	15	89.2	90.2	88.5	69	79	84	6309	6206	E	18.19	CD0005	1
10	7.5	1770	215JM	VEJMM3313T	12	100	26.6	92.4	92.3	91.7	63	77	84	6309	6206	E	22.41	CD0005	1, 35
10	7.5	1765	215JM	VJMM3313T	13.4	93.5	29.7	88.5	89.9	89.5	59	71	78	6309	6206	E	19.78	CD0005	35
15	11	3500	215JM	VJMM3314T	18	115	22.5	90.7	91	89.5	72	82	86	6309	6206	E	18.69	CD0005	1
575 Volt, Foot Mounted																			
3	2.2	3600	145JM	JMM3158T-5	3.1	21.6	4.6	83.2	84.7	84.3	77	84	89	6206	6203	H	14.25	CD0006	
3	2.2	1800	182JM	JMM3211T-5	3.3	25.3	9.06	85.5	87.1	86.4	62	73	80	6207	6203	H	17.04	CD0006	1
5	3.7	3600	182JM	JMM3212T-5	4.9	39	7.6	85.8	86.8	86.2	75	85	89	6207	6203	H	15.63	CD0006	
5	3.7	1800	184JM	JMM3218T-5	5.7	37.2	14.8	85.6	87.7	87.7	54	67	75	6207	6205	H	16.5	CD0006	1, 35
7 1/2	5.6	3600	184JM	JMM3219T-5	7	59.8	11.4	88.3	88.7	87.8	78	88	92	6207	6205	H	16.5	CD0006	1
7 1/2	5.6	1800	213JM	JMM3311T-5	7.9	57	22.6	89.1	89.1	88.7	62	73	80	6307	6205	H	18.84	CD0006	1, 35
10	7.5	3600	213JM	JMM3312T-5	9.6	63.6	15	89.5	90.5	90.1	74	82	86	6309	6206	H	18.19	CD0006	
10	7.5	1800	215JM	JMM3313T-5	10.8	76.1	29.7	88.2	89.8	89.6	58	71	77	6309	6206	H	18.19	CD0006	1, 35
15	11	3600	215JM	JMM3314T-5	14.4	91.5	22.5	90.7	91.4	91	73	81	86	6309	6206	H	18.19	CD0006	1

NOTE: Volt Code: E = 208-230/460V, 60Hz; E1 = 230/460V, 60Hz, usable at 208V; F = 230/460V, 60Hz; H = 575V, 60 Hz
1 Class F Insulated Motor with 1.15 Service Factor or higher that operates within Class "B" temperature limits at rated horsepower

30 Usable at 208 Volts

35 NEMA Design A

See page 56 for connection diagrams. See page 35 for dimensions.

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

Close Coupled Pump Motors with AEGIS Grounding Ring


**NEMA
Premium**

These motors are designed and manufactured for commercial and industrial pump applications where adjustable speed drives are utilized. They feature Class H insulation with an AEGIS® bearing protection ring installed internally. Motors include oversized ball bearings with locked drive end construction to minimize endplay. All models meet or exceed NEMA Premium® efficiencies, are Inverter Ready, and have a 3-year warranty.



TEFC – Totally Enclosed Fan Cooled Foot Mounted, 230/460 Volts, Three Phase, 3 - 20 Hp

Hp	kW	RPM	Frame	Catalog Number	Amps @ High V		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			
3	2.2	3450	182JM	EJMM3610T-G	3.6	33	4.5	87.9	88.2	86.5	81	88	92	6207	6203	E	16.91	CD0005
3	2.2	1760	182JM	EJMM3611T-G	4.2	32	8.9	87.8	89.5	89.5	54	68	75	6207	6205	E	18.06	CD0005
5	3.7	3450	184JM	EJMM3613T-G	5.9	57.2	7.6	88.4	89.1	88.5	81	88	91	6207	6205	E	18.06	CD0005
5	3.7	1750	184JM	EJMM3615T-G	6.7	49.1	14.9	89.7	90.3	89.5	60	72	78	6207	6205	E	19.56	CD0005
7 1/2	5.6	3470	213JM	EJMM3709T-G	8.6	63.1	11.1	89.2	90.1	89.5	80	87	90	6309	6206	F	19.81	CD0005
7 1/2	5.6	1770	213JM	EJMM3710T-G	9.4	70.1	22.4	92.2	92.7	91.7	63	75	81	6309	6206	E1	20.94	CD0005
10	7.5	3490	215JM	EJMM3711T-G	11.8	78.5	15	91	91.3	90.2	74	84	87	6309	6206	E	19.81	CD0005
10	7.5	1770	215JM	EJMM3714T-G	12	103	29.5	92.1	92.4	91.7	66	79	85	6309	6206	E	22.44	CD0005
15	11	3520	254JM	EJMM2394T-G	17.5	110	22.1	91	91.6	91	77	85	87	6309	6208	E1	25.3	CD0180
15	11	1765	254JM	EJMM2333T-G	18.5	122.9	44.6	91.9	92.6	92.4	66	77	82	6309	6208	E1	25.3	CD0005
20	15	3520	256JM	EJMM4106T-G	23	161	29.6	92.2	92.4	91	78	86	89	6309	6208	E1	25.3	CD0005
20	15	1765	256JM	EJMM2334T-G	24	175	59	92.8	93.1	93	69	80	84	6309	6208	E1	25.3	CD0005

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

See page 34 for Layout drawing. See page 56 for Connection Diagrams.

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

Shaded ratings are cast iron frames.

Close Coupled Pump Motors with AEGIS Grounding Ring


**NEMA
Premium**


ODP – Open Drip Proof Foot Mounted, 230/460 Volts, Three Phase, 3 - 15 Hp

Hp	kW	RPM	Frame	Catalog Number	Amps @ High V		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	1760	143JM	EJMM3116T-G	1.5	12.1	3	82.1	84.8	85.5	49	62	71	6206	6203	E	13.75	CD0005
1 1/2	1.1	1755	145JM	EJMM3154T-G	2.2	17.5	4.5	83.5	86	86.5	50	63	72	6206	6203	E1	13.75	CD0005
2	1.5	1750	145JM	EJMM3157T-G	2.9	24.3	6	84.4	86.6	86.5	51	64	73	6206	6203	E1	14.25	CD0005
3	2.2	3450	145JM	EJMM3158T-G	3.8	32.5	4.5	83.8	85.4	85.5	72	82	87	6206	6203	E1	15.13	CD0005
3	2.2	1765	182JM	EJMM3211T-G	4.2	32.3	8.9	87.5	89.5	89.5	53	66	73	6207	6205	E1	16.5	CD0005
5	3.7	3450	182JM	EJMM3212T-G	6	50.7	7.7	86.7	87.6	86.5	81	88	91	6207	6205	E	15.12	CD0005
5	3.7	1750	184JM	EJMM3218T-G	6.6	44.8	15	89.7	90.2	89.5	64	75	80	6207	6205	E	18	CD0005
7 1/2	5.6	3450	184JM	EJMM3219T-G	8.6	86.3	11.3	88.1	89.2	88.5	80	87	91	6207	6205	E	16.5	CD0005
7 1/2	5.6	1770	213JM	EJMM3311T-G	9.7	68.2	22.1	90.5	91.4	91	92	73	79	6309	6206	F	18.19	CD0005
10	7.5	3500	213JM	EJMM3312T-G	11.4	98	15	90.9	92	91.7	81	87	90	6309	6206	E	19.31	CD0005
10	7.5	1770	215JM	EJMM3313T-G	12.5	88.3	29.7	91.6	92.3	91.7	66	77	82	6309	6206	F	19.31	CD0005
15	11	3525	215JM	EJMM3314T-G	17.5	143	22.5	91.9	92.3	90.2	80	87	89	6309	6206	F	18.19	CD0005
15	11	1765	254JM	EJMM2513T-G	17.7	118	44.6	93.3	93.5	93	70	81	86	6309	6208	E1	23.19	CD0180

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

See page 35 for Layout drawing. See page 56 for Connection Diagrams.

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

Close Coupled Pump Washdown Duty Motors

Baldor close-coupled pump Washdown Duty motors are for commercial and industrial water pump applications, or food processing applications that are exposed to high-pressure washdowns. Features over-sized ball bearings with locked drive end construction to minimize shaft movement. Contaminant and moisture-prevention features include a moisture sealant on the bolt heads between the frame and endplates, neoprene gaskets, and a Forsheda® running contact V-ring.



TEFC - Totally Enclosed Fan Cooled,
TENV - Totally Enclosed Non-Ventilated - 230/460 Volts, Three Phase, 1 - 15 Hp

Hp	kW	RPM	Frame	Encl.	Catalog Number	Amps @ High V		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	TENV	JMWDM3546T	1.5	13.2	2.99	79.7	82.6	83.2	51	65	74	6206	6203	E	14.25	CD0005
		3450	143JM	TEFC	JMWDM3550T	2.1	16	2.2	83.9	85.4	85.1	64	75	76	6206	6203	E	15.43	CD0005
1.5	1.1	1755	145JM	TENV	JMWDM3554T	2.3	19.3	4.51	83	85.4	85.8	52	65	74	6206	6203	E	14.25	CD0005
		3450	145JM	TEFC	JMWDM3555T	2.6	24.3	3	81.2	84	84.2	73	80	85	6206	6203	E	15.43	CD0005
2	1.5	1750	145JM	TEFC	JMWDM3558T	3.1	23.8	5.96	81	83.6	84.1	50	63	72	6206	6203	E	15.43	CD0005
		3450	145JM	TEFC	JMWDM3559T	3.7	35.5	4.7	86.4	87	86.5	78	86	90	6206	6203	E	16.31	CD0005
3	2.2	1750	182JM	TEFC	JMWDM3611T	4.2	36.6	9.08	86.5	87.8	87.5	58	71	78	6207	6203	E	18.19	CD0005
		3450	184JM	TEFC	JMWDM3613T	5.8	54	7.65	88	88	87.5	81	89	93	6207	6205	E	18.05	CD0005
5	3.7	1750	184JM	TEFC	JMWDM3615T	6.8	47.9	14.9	87.3	88.3	87.8	59	72	78	6207	6205	E	19.55	CD0005
		3450	184JM	TEFC	JMWDM3616T	8.7	98.8	11.5	88.4	89.3	88.7	83	91	94	6207	6205	E	19.55	CD0005
7.5	5.6	1770	213JM	TEFC	JMWDM3710T	10.1	77.5	22.2	88.1	89.7	89.8	58	71	77	6309	6206	E	19.78	CD0005
		3500	215JM	TEFC	JMWDM3711T	11.5	90	14.9	91	91.2	90.3	82	88	90	6309	6206	E	19.78	CD0005
10	7.5	1770	215JM	TEFC	JMWDM3714T	13.5	107	29.5	88.2	89.6	89.7	58	70	77	6309	6206	E	20.91	CD0005
		3450	215JM	TEFC	JMWDM3713T	17	157	22.2	90.4	90.8	90.2	86	91	93	6309	6206	E	21.66	CD0005

NOTE: Volt Code: E = 208-230/460V, 60Hz
 See page 56 for Connection Diagram. See page 37 for dimensions.
 Efficiencies shown are nominal. Data subject to change without notice. Contact Baldor for certified data.

Close Coupled Pump SSE Super-E Stainless Steel Encapsulated Motors



TEFC - Totally Enclosed Fan Cooled,
TENV - Totally Enclosed Non-Ventilated - 230/460 Volts, Three Phase, 1 - 10 Hp

Hp	kW	RPM	Frame	Encl.	Catalog Number	Amps @ High V		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	1760	143JM	TENV	JMSSEWDM3546T	1.5	15	2.98	84.4	87.2	87.8	49	63	72	6206	6205	E	14.94	CD0005
		3500	143JM	TENV	JMSSEWDM3550T	1.8	20.6	2.31	82.3	85.2	86.1	77	86	92	6206	6205	E	15.82	CD0005
1.5	1.1	1765	145JM	TEFC	JMSSEWDM3554T	2.2	20	4.49	86	87.9	88.5	52	66	74	6206	6205	E	16.96	CD0005
		3500	145JM	TEFC	JMSSEWDM3555T	2.5	31	3	83.7	86	86.6	76	85	90	6206	6205	E	16.96	CD0005
2	1.5	1755	145JM	TEFC	JMSSEWDM3558T	2.7	24.1	5.99	87.3	88.7	88.8	55	69	77	6206	6205	E	18.34	CD0005
		3470	145JM	TEFC	JMSSEWDM3559T	3.7	48.3	4.5	86.3	87.2	86.9	79	87	91	6206	6205	E	18.34	CD0005
3	2.2	1760	182JM	TEFC	JMSSEWDM3611T	4.2	34.1	9.04	88.1	89.6	89.7	56	69	76	6207	6206	E1	19.73	CD0005
		3500	184JM	TEFC	JMSSEWDM3613T	5.6	62.5	7.5	89	90	89.6	83	89	93	6207	6206	E	18.23	CD0005
5	3.7	1750	184JM	TEFC	JMSSEWDM3615T	6.5	48.3	15.2	90.5	90.7	89.8	64	75	81	6207	6206	E	19.73	CD0005
		3500	213JM	TEFC	JMSSEWDM3709T	8.3	87	11.5	90.9	92.1	91.9	79	90	93	6309	6307	E	21.56	CD0005
7.5	5.6	1770	213JM	TEFC	JMSSEWDM3710T	9.5	73	22.3	91.1	92.1	91.7	65	75	81	6309	6307	E	22.75	CD0005
		3500	215JM	TEFC	JMSSEWDM3711T	10.6	115	15	92	92.4	91.8	83	91	94	6309	6307	E	22.75	CD0005
10	7.5	1770	215JM	TEFC	JMSSEWDM3714T	12.5	105.2	29.9	92.5	93.1	92.8	65	76	81	6309	6307	E	24.19	CD0180

NOTE: Volt Code: E = 208-230/460V, 60Hz; E1 = 230/460V, 60Hz, usable at 208V
 See page 56 for Connection Diagrams. See page 37 for dimensions.
 Efficiencies shown are nominal. Data subject to change without notice. Contact Baldor for certified data.

Baldor•Reliance Jet Pump Motors

Baldor•Reliance jet pump motor are available in open drip proof or totally enclosed industrial steel band constructions. Motor construction can be tailored for specific applications and industries such as food processing, washdown applications or explosion-proof enclosures for pumps in hazardous areas.



Fan cover designed to provide maximum cooling and quiet operation

Bi-directional cooling fan designed for low friction and windage losses

Antifriction ball bearings for long motor life

End turn lacing on both ends of the winding prevents electrical failures

Locked bearing construction reduces shaft endplay

Gasketed conduit box to prevent moisture ingress

Heavy-gauge steel frame construction

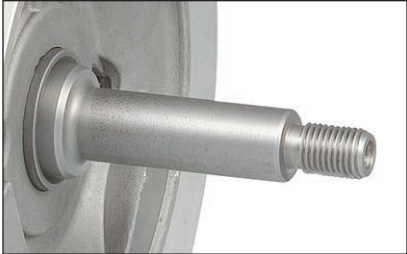
High-pressure die cast aluminum rotor coated to reduce corrosion

Mobil Polyrex® EM grease for greater bearing protection and improved lubrication life

Electrical grounding terminal inside conduit box



Non-drive end shaft extension is slotted to aid in pump assembly and maintenance.



Drive end shaft extension made of 400 series stainless steel and threaded meeting NEMA 56J dimensions.

Jet Pump Motors Single Phase - ODP

Jet Pump motors are designed for Residential and industrial pump applications. Construction features include a sturdy steel frame, cast aluminum end plates with steel bearing seat inserts for mechanical reliability. Opposite drive end shaft is slotted for convenience.



Open Drip Proof, 115/230 Volt, Single Phase, 1/3 - 3 HP

Hp	kW	RPM	Frame	Catalog Number	Amps @ High V		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		Volt Code	S.F.	"C" Dim.	Conn. Diag. No.	Notes
					Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE					
56J, Foot Mounted																				
1/3	0.25	3450	56J	CJL1205A	3.1	14.5	0.5	40.6	49.5	58	48	56	61	6203	6203	B	1.75	11.91	CD0307	-
1/3	0.25	1725	56J	CJL1301A	3	13	1	49	56	60	41	51	60	6203	6203	B	1.35	11.89	CD0307	-
1/2	0.37	3450	56J	CJL1303A	3.7	20	0.75	52	61	66	50	60	67	6203	6203	B	1.60	12.51	CD0307	-
1/2	0.37	1725	56J	CJL1304A	4.2	18	1.5	52	60	62	42	53	62	6203	6203	B	1.25	12.14	CD0307	30
3/4	0.56	3450	56J	CJL1306A	5.5	31.2	1.15	57.6	65.5	69	52	64	68	6203	6203	B	1.50	13.39	CD0307	-
3/4	0.56	1725	56J	CJL1307A	5.4	16	2.25	52	59	63	45	55	64	6205	6203	B	1.25	12.25	CD0307	-
1	0.75	3450	56J	CJL1309A	7	46	1.5	60.7	66.5	65	45	58	65	6203	6203	B	1.40	13.89	CD0203	-
1.5	1.1	3450	56J	CJL1313A	6.5	43.5	2.3	76.2	77.7	78.5	90	93	95	6203	6203	B	1.30	13.89	CD0769	-
2	1.5	3450	56J	CJL1317A	13	79	3	60	66	70	53	65	69	6205	6203	B	1.20	13.25	CD0307	30
56J, Footless																				
1/3	0.25	3450	56J	JL1205A	3.1	14.5	0.5	40.6	49.5	58	48	56	61	6203	6203	B	1.75	11.89	CD0203	-
1/3	0.25	1725	56J	JL1301A	3	13	1	49	56	60	41	51	60	6203	6203	B	1.35	11.89	CD0203	30
1/2	0.37	3450	56J	JL1303A	3.7	20	0.75	52	61	66	50	60	67	6203	6203	B	1.60	12.51	CD0307	-
1/2	0.37	1725	56J	JL1304A	4.2	18	1.5	52	60	62	42	53	62	6203	6203	B	1.25	12.14	CD0203	30
3/4	0.56	3450	56J	JL1306A	5.5	31.2	1.15	57.6	65.5	69	52	64	68	6203	6203	B	1.50	13.39	CD0307	-
3/4	0.56	1725	56J	JL1307A	5.1	31	2.25	59.1	62.7	68	49	63	68	6203	6203	B	1.25	13.89	CD0203	30
1	0.75	3450	56J	JL1309A	7	46	1.5	60.7	66.5	65	45	58	65	6203	6203	B	1.40	13.89	CD0449	30
1.5	1.1	3450	56J	JL1313A	6.5	43.5	2.3	76.2	77.7	78.5	90	93	95	6203	6203	B	1.30	13.89	CD0769	-
2	1.5	3450	56J	JL1317A	13	79	3	60	66	70	53	65	69	6205	6203	B	1.20	13.25	CD0307	30
3	2.2	3450	56J	JL1323A	13	108	4.5	78.5	82	82.5	85	90	93	6205	6203	C	1.15	14.13	CD0661	30
56C, Footless																				
1/3	0.25	3450	56C	VL1205A	3.5	18.5	0.5	40.1	48.9	54	43	50	56	6203	6203	B	1.75	11.32	CD0052	-
1/3	0.25	1725	56C	VL1301A	3	13	1	49	56	60	41	51	60	6203	6203	B	1.35	11.32	CD0052	30
1/2	0.37	3450	56C	VL1303A	3.7	20	0.75	52	61	66	50	60	67	6203	6203	B	1.60	12	CD0052	-
1/2	0.37	1725	56C	VL1304A	4.2	18	1.5	52	60	62	42	53	62	6203	6203	B	1.25	11.57	CD0052	30
3/4	0.56	3450	56C	VL1306A	5.5	31.2	1.15	57.6	65.5	69	52	64	68	6203	6203	B	1.50	12.88	CD0052	-
3/4	0.56	1725	56C	VL1307A	5.4	16	2.25	52	59	63	45	55	64	6205	6203	B	1.25	11.75	CD0052	-
1	0.75	3450	56C	VL1309A	7	46	1.5	60.7	66.5	65	45	58	65	6203	6203	B	1.40	13.4	CD0052	-
1	0.75	1725	56C	VL1318A	6.2	39	3	64.5	67	67	57	70	68	6205	6203	B	1.00	12.75	CD0052	-
1.5	1.1	3450	56C	VL1313A	6.5	43.5	2.3	76.2	77.7	78.5	90	93	95	6203	6203	B	1.30	13.01	CD0703	-
2	1.5	3450	56C	VL1317A	13	79	3	60	66	70	53	65	69	6205	6203	B	1.20	12.75	CD0052	30
3	2.2	3450	56C	VL1323A	13	108	4.5	78.5	82	82.5	85	90	93	6205	6203	C	1.15	13.63	CD0225	30

NOTE: Volt Code: B = 115/230V, 60Hz; C = 230V, 60Hz; D=208-230V, 60Hz

30 Usable at 208 Volts

All threaded shaft single phase motors are connected single rotation – CCW when viewing drive end.

See pages 58, 59 and 60 for connection diagrams. See page 41 for dimensions.

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

Jet Pump Motors Single Phase - TEFC

Jet Pump motors are designed for Residential and industrial pump applications. Construction features include a sturdy steel frame, cast aluminum end plates with steel bearing seat inserts for mechanical reliability. Opposite drive end shaft is slotted for convenience.



Totally Enclosed Fan Cooled, 115/230 Volt, Single Phase Phase, 1/3 - 2 HP

Hp	kW	RPM	Frame	Catalog Number	Amps @ High V		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		Volt Code	S.F.	"C" Dim.	Conn. Diag. No.	Notes
					Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE					
Foot Mounted																				
1/3	0.25	1725	56J	CJL3501A	3	13	1	41	52	60	41	52	60	6203	6203	B	1.35	11.84	CD0094	30
1/2	0.37	1725	56J	CJL3504A	3.7	16.5	1.5	58	65	68	46	59	66	6203	6203	B	1.25	12.47	CD0094	30
3/4	0.56	1725	56J	CJL3507A	4.1	31	2.25	67.7	73	74	61	72	80	6203	6203	B	1.25	12.97	CD0308	30
Footless																				
1/3	0.25	3450	56J	JL3405A	3	16	0.5	44.7	52.4	60	49	57	64	6203	6203	B	1.75	11.85	CD0094	-
1/3	0.25	1725	56J	JL3501A	3	13	1	41	52	60	41	52	60	6203	6203	B	1.35	11.85	CD0094	30
0.5	0.37	3450	56J	JL3503A	3.7	19.5	0.75	52.1	60.2	62	51	62	69	6203	6203	B	1.60	12.85	CD0094	-
0.5	0.37	1725	56J	JL3504A	3.7	16.5	1.5	58	65	68	46	59	66	6203	6203	B	1.25	12.85	CD0094	30
0.75	0.56	3450	56J	JL3506A	5.4	31.2	1.15	57.6	65.5	66	52	64	66	6203	6203	B	1.50	12.85	CD0094	-
0.75	0.56	1725	56J	JL3507A	4.1	31	2.25	67.7	73	74	61	72	80	6203	6203	B	1.25	12.97	CD0308	30
1	0.75	3450	56J	JL3509A	6	38.5	1.5	65	67	66	64	75	81	6205	6203	B	1.25	13.74	CD0094	-
1	0.75	1725	56J	JL3510A	6.2	39	3	64.5	67	67	57	70	68	6205	6203	B	1.00	13.74	CD0094	-
1 1/2	1.1	3450	56J	JL3513A	8.3	42	2.3	67.7	71.6	70	69	78	82	6205	6203	B	1.00	13.74	CD0094	30
1 1/2	1.1	1725	56J	JL3514A	8	57	4.5	71.6	76.1	75.5	59	72	80	6205	6203	B	1.00	14.62	CD0098A02	-
2	1.5	3450	56J	JL3515A	11.5	72	3.75	67.3	69.3	74	76	81	82	6205	6203	B	1.00	14.62	CD0449	-
2	1.5	1725	56J	JL3516A	8.6	58.2	6.16	78.8	80.4	78	86	91	99	6205	6203	B	1.00	14.62	CD0308	20

NOTE: Volt Code: B = 115/230V, 60Hz

20 Class F Insulation

30 Usable at 208 Volts

All threaded shaft single phase motors are connected single rotation – CCW when viewing drive end.

See pages 59 and 60 for connection diagrams. See page 42 for dimensions.

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

Jet Pump Motors Three Phase - ODP

Jet Pump motors are designed for Residential and industrial pump applications. Construction features include a sturdy steel frame, cast aluminum end plates with steel bearing seat inserts for mechanical reliability and a stainless steel threaded shaft for long life. Opposite drive end shaft is slotted for convenience.



Open Drip Proof, 230/460 Volt, Three Phase, 1/3 - 3 HP

Hp	kW	RPM	Frame	Catalog Number	Amps @ High V		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		Volt Code	S.F.	"C" Dim.	Conn. Diag. No.	Notes
					Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE					
Footless																				
1/3	0.25	3450	56J	JM3006	0.8	5.4	0.5	54	62	62	36	45	61	6203	6203	E1	1.75	11.72	CD0005	-
1/2	0.37	3450	56J	JM3107	1.2	8.75	0.75	60.4	67.2	70	44	55	65	6203	6203	E1	1.60	11.72	CD0005	-
1/2	0.37	1725	56J	JM3108	1	6.5	1.5	66.4	72.5	74	43	55	63	6203	6203	E1	1.25	11.85	CD0005	-
3/4	0.56	3450	56J	JM3111	1.5	11	1.13	55.6	64.3	74	35	45	66	6203	6203	E	1.50	11.72	CD0005	-
3/4	0.56	1725	56J	JM3112	1.5	10	2.25	69.7	74.7	75.5	42	55	60	6203	6203	E	1.25	12.34	CD0005	-
1	0.75	3450	56J	JM3115	1.6	14.5	1.51	71.5	77.1	77	59	72	82	6203	6203	E1	1.40	12.34	CD0005	-
1	0.75	1725	56J	JM3116	1.7	11.4	3.1	72.6	77.3	78.5	51	63	70	6203	6203	E	1.15	13.22	CD0005	1, 20
1 1/2	1.1	3450	56J	JM3120	2.2	17.8	2.3	67.6	73.4	74	70	79	86	6203	6203	E1	1.30	13.22	CD0005	-
1 1/2	1.1	1725	56J	JM3154	2.8	19.6	4.56	72.3	76.6	77	43	55	65	6203	6203	E	1.15	13.72	CD0005	-
2	1.5	3450	56J	JM3155	2.7	24.5	3	80	82.3	82.5	70	80	86	6203	6203	E1	1.20	13.72	CD0005	-
3	2.2	3450	56J	JM3158	4	30.9	4.6	78.2	80.7	80	74	83	87	6205	6203	E	1.15	13.72	CD0005	-
Foot Mounted																				
1/3	0.25	1725	56J	CJM3104	0.8	4.4	1	59	65	68	40	50	57	6203	6203	E1	1.35	11.85	CD0005	-
1/2	0.37	3450	56J	CJM3107	1.2	8.75	0.75	60.4	67.2	70	44	55	65	6203	6203	E1	1.60	11.72	CD0005	-
1/2	0.37	1725	56J	CJM3108	1	6.5	1.5	66.4	72.5	74	43	55	63	6203	6203	E1	1.25	11.72	CD0005	-
3/4	0.56	3450	56J	CJM3111	1.5	11.4	1.1	62.6	69.8	74	43	55	66	6203	6203	E	1.50	11.72	CD0005	-
3/4	0.56	17.25	56J	CJM3112	1.5	10	2.25	69.7	74.7	75.5	42	55	60	6203	6203	E	1.25	12.34	CD0005	-
1	0.75	3450	56J	CJM3115	1.6	14.5	1.51	71.5	77.1	77	59	72	82	6203	6203	E1	1.40	12.34	CD0005	-
1 1/2	1.1	3450	56J	CJM3120	2	17	2.3	78.4	81.2	81.5	71	83	89	6203	6203	E1	1.30	13.22	CD0005	-
2	1.5	3450	56J	CJM3155	2.7	24.5	3	80	82.3	82.5	70	80	86	6203	6203	E1	1.20	13.72	CD0005	-
3	2.2	3450	56J	CJM3158	4	30.9	4.6	78.2	80.7	80	74	83	87	6205	6203	E	1.15	13.74	CD0005	-

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

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

20 Class F Insulation

All threaded shaft single phase motors are connected single rotation – CCW when viewing drive end.

See page 56 for connection diagrams. See page 43 for dimensions.

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

Jet Pump Motors Three Phase - TEFC

Jet Pump motors are designed for Residential and industrial pump applications. Construction features include a sturdy steel frame, cast aluminum end plates with steel bearing seat inserts for mechanical reliability and a stainless steel threaded shaft for long life. Opposite drive end shaft is slotted for convenience.



Totally Enclosed Fan Cooled, 230/460 Volt, Three Phase, 1/3 - 3 HP

Hp	kW	RPM	Frame	Catalog Number	Amps @ High V		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		Volt Code	S.F.	"C" Dim.	Conn. Diag. No.	Notes
					Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE					
Footless																				
1/3	0.25	3450	56J	JM3457	0.8	5.4	0.5	54	62	62	36	45	60	6203	6203	E1	1.75	11.84	CD0005	-
1/3	0.25	1725	56J	JM3458	0.8	4.4	1	59	65	68	40	50	57	6203	6203	E1	1.35	11.84	CD0005	-
1/2	0.37	3450	56J	JM3460	1.2	8.75	0.75	60.4	67.2	70	44	55	65	6203	6203	E1	1.60	11.84	CD0005	-
1/2	0.37	1725	56J	JM3461	1	6.5	1.5	66.4	72.5	74	43	55	63	6203	6203	E1	1.25	11.84	CD0005	-
3/4	0.56	3450	56J	JM3463	1.5	11.4	1.1	62.6	69.8	74	43	55	66	6203	6203	E	1.50	11.84	CD0005	-
3/4	0.56	1725	56J	JM3542	1.5	10	2.25	69.7	74.7	75.5	42	55	60	6203	6203	E	1.25	11.84	CD0005	-
1	0.75	3450	56J	JM3545	1.6	14.5	1.51	71.5	77.1	77	59	72	82	6203	6203	E1	1.40	11.84	CD0005	-
1	0.75	1725	56J	JM3546	1.7	13	3	75.5	78.3	78.5	47	60	71	6203	6203	E	1.15	13.34	CD0005	-
1 1/2	1.1	3450	56J	JM3550	2.3	18.4	2.25	79.6	81.8	80	57	68	74	6203	6203	E1	1.30	12.47	CD0005	20
1 1/2	1.1	1735	56J	JM3554	2.3	17.5	4.5	77.3	80.9	81.5	51	65	74	6205	6203	E	1.15	12.74	CD0005	20
2	1.5	3450	56J	JM3555	2.7	23	3.1	77	80	80	73	80	87	6205	6203	E1	1.20	13.74	CD0005	-
2	1.5	1735	56J	JM3558	3	24.8	6.1	79.2	82.2	82.5	53	67	76	6205	6203	E	1.15	13.74	CD0005	20
3	2.2	3450	56J	JM3559	3.8	32.9	4.6	83	84.3	82.5	74	83	89	6205	6203	E	1.15	13.74	CD0005	1, 20
Foot Mounted																				
1/2	0.37	1725	56J	CJM3538	1	6.5	1.5	66.4	72.5	74	43	55	63	6203	6203	E1	1.25	11.84	CD0005	-
3/4	0.56	1725	56J	CJM3542	1.5	10	2.25	69.7	74.7	75.5	42	55	60	6203	6203	E	1.25	11.84	CD0005	-

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

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

20 Class F Insulation

All threaded shaft single phase motors are connected single rotation – CCW when viewing drive end.

See page 56 for connection diagrams. See page 44 for dimensions. Efficiencies shown are nominal. Data subject to change without notice. Contact Baldor for certified data.

Jet Pump Explosion-Proof Motors

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.



Single Phase, 115/230 Volt, 1/2 - 2 Hp

Hp	kW	RPM	NEMA Frame	Catalog Number	XP Cls & Grp	XP Temp Code	Amps @ High V		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Voltage	"C" Dim.	Conn. Diag. No.	Notes
							Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load				
0.50	0.37	3450	56J	JL5003A	Ⓜ	T4	3.9	23.0	0.75	41.2	49.7	55.0	51	59	69	115/230	14.79	CD0008	-
0.75	0.56	3450	56J	JL5006A	Ⓜ	T4	4.9	28.3	1.2	50.0	58.0	62.0	60	70	75	115/230	14.79	CD0008	-
1	0.75	3450	56J	JL5009A	Ⓜ	T4	6.0	35.0	1.5	65.0	67.0	66.0	64	75	81	115/230	15.68	CD0008	30
1.5	1.12	3450	56J	JL5030	Ⓜ	T4	7.5	42.0	2.3	65.3	68.4	70.0	64	73	82	115/208-230	15.68	CD0001	-
2	1.5	3450	56J	JL5031	Ⓜ	T4	11.5	78.0	3.0	64.2	70.5	74.0	65	75	82	115/208-230	16.56	CD0001	-

Three Phase, 230/460 Volt, 1 - 2 Hp

Hp	kW	RPM	NEMA Frame	Catalog Number	XP Cls & Grp	XP Temp Code	Amps @ High V		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Voltage	"C" Dim.	Conn. Diag. No.	Notes
							Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load				
1	0.75	3450	56J	JM7013	Ⓜ	T4	1.8	11.0	1.5	72.1	76.8	75.5	53	68	71	230/460	13.72	CD0005	-
1.5	1.12	3450	56J	JM7018	Ⓜ	T4	2.3	16.0	2.3	66.7	72.7	75.5	59	71	76	208-230/460	14.79	CD0005	-
2	1.5	3450	56J	JM7071	Ⓜ	T4	2.7	17.5	3.0	78.2	80.3	78.5	80	87	93	208-230/460	15.67	CD0005	-

Ⓜ Class I, Group D, Class II, Group F & G

30 Usable at 208 Volts

All threaded shaft single phase motors are connected single rotation – CCW when viewing drive end.

See pages 56 and 57 for connection diagrams. See page 49 for dimensions.

Efficiencies shown are nominal. Data subject to change without notice. Contact Baldor for certified data. See inside back cover for explosion-proof classification information

CAUTION: These Explosion-proof motors are not suitable for use with adjustable speed drives. Inverter Duty Explosion-proof motors must be used.

Close-Coupled Pump, Explosion-Proof 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 Division 1, Class I, Group D, Class II, Group F & G, and are rated at a 1.0 Service Factor.



Three Phase, 230/460 Volt, 3 - 10 Hp

Hp	kW	RPM	Frame	Catalog Number	XP Cls & Grp	XP Temp Code	Amps @ High V		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Voltage	"C" Dim.	Conn. Diag. No.
							Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load			
3	2.2	3450	145JM	JMM7075T	①	T2C	3.8	32.9	4.6	83.0	84.3	82.5	74	83	89.0	208-230/460	17.80	CD0005
3	2.2	3450	182JM	JMM7026T	①	T2C	3.9	35.0	4.5	78.1	81.5	81.5	77	85	89.0	208-230/460	19.00	CD0005
5	4	3450	184JM	JMM7072T	①	T2C	6.0	47.0	7.5	85.8	86.5	85.5	88	93	93.0	230/460	20.38	CD0005
7.5	5.6	3450	184JM	JMM7073T	①	T2C	8.6	76.0	11.3	87.8	88.1	87.5	84	90	94.0	230/460	21.88	CD0005
7.5	5.6	3450	213JM	JMM7045T	①	T2C	9.3	88.7	11.4	82.6	85.4	84.0	84	89	88.0	230/460	20.05	CD0005
10	7.5	3450	215JM	JMM7074T	①	T2C	12.0	100	15.0	83.4	85.9	86.5	85	91	91.0	230/460	21.19	CD0005

① Class I, Group D
 See page 56 for connection diagrams. See page 49 for dimensions.
 Efficiencies shown are nominal. Data subject to change without notice. Contact Baldor for certified data.
 See inside back cover for explosion-proof classification information

CAUTION: These Explosion-proof motors are not suitable for use with adjustable speed drives. Inverter Duty Explosion-proof motors must be used.

Close-Coupled Pump, Drill Rig Duty, Explosion-Proof Motors

Baldor motors designed for on and off shore drill rig service, bulk fuel terminals, and transfer stations where close-coupled pump shaft configurations are required. For use in high humidity hazardous-duty applications driving pumps, compressors, blowers and fans. These motors feature Labyrinth-type recessed shaft slinger for increased bearing protection. Explosion-proof breather/drain to prevent build up of condensation. Class F insulation. Corrosion resistant finish with two part epoxy coating. Rated for 55° C ambient and 1.15 service factor (EJPM71170T-I has 1.0 S.F.). UL and CSA approved for Division 1, Class I, Group C & D. Available from stock 3 hp to 10 hp with 182JP to 184JP mounting.



Three Phase, 230/460 Volt, 3 - 10 Hp

Hp	kW	Actual RPM	NEMA Frame	Catalog Number	XP Cls & Grp	XP Temp Code	Amps @ High V		Full Load Torque Lb.Ft.	Efficiency %			Power Factor %			Voltage	"C" Dim.	Conn. Diag. No.	Notes
							Full Load	Locked Rotor		1/2	3/4	Full Load	1/2 pf	3/4 pf	Full Load pf				
3	2.2	1755	182JP	EJPM7142T-I	④	T3C	4.1	28.7	7.24	86.9	88.7	89.5	52	65	77	230/460	22.09	CD0005	1, 19, 30
5	4	1750	184JP	EJPM7144T-I	④	T3C	6	43.9	10.8	87.7	88.7	89.5	52	65	79	230/460	22.09	CD0005	1, 19, 30
7.5	5.6	1770	213TCZ	EJPM71147T-I	④	T3C	9.5	65.8	17.8	90.1	91.3	91.7	58	71	81	230/460	25.65	CD0005	1, 19, 97
10	7.5	1765	215TCZ	EJPM71170T-I	④	T3C	12.3	95.7	29.7	93.6	92.6	92.4	64	76	81	230/460	25.65	CD0005	19, 97

④ Class I, Group C & D
 1 Class F insulated motor with 1.15 Service Factor or higher that operates within Class "B" temperature limits at rated horsepower
 19 60/50 Hertz motor. 60 Hertz data shown, contact your local Baldor•Reliance office for 50 Hertz data
 30 Usable at 208 volts
 97 One size smaller flange and shaft
 See page 56 for connection diagrams. See page 50 for dimensions.
 Efficiencies shown are nominal. Data subject to change without notice. Contact Baldor for certified data.
 See inside back cover for explosion-proof classification information

CAUTION: These Explosion-proof motors are not suitable for use with adjustable speed drives. Inverter Duty Explosion-proof motors must be used.

Square Flange Pump Motor Single Phase - ODP

Square flange pump motors are designed for drop in replacement in pump applications where square flange mounting plate is required, such as swimming pools. They have a stainless steel shaft extension for long life, a drip cover and slotted opposite drive end shaft for convenience.



Open Drip Proof, 115/230 Volt, 1/2 - 2 HP

Hp	kW	RPM	Frame	Catalog Number	Amps @ High V		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		Volt Code	S.F.	"C" Dim.	Conn. Diag. No.	Notes
					Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE					
Single Phase																				
1/2	0.37	3450	56Y	JSL325A	3.3	24.5	0.75	60.8	67.2	70	50	61	69	6203	6203	B	1.60	11.35	CD0203	30
3/4	0.56	3450	56Y	JSL425A	5.1	27.4	1.15	51.9	60.1	64	59	68	75	6203	6203	B	1.50	11.91	CD0203	30
1	0.75	3450	56Y	JSL525A	6.3	37.45	1.52	61.9	68.5	70	53	66	74	6203	6203	B	1.40	12.72	CD0203	30
1 1/2	1.1	3450	56YZ	JSL625A	9	53.2	2.28	68.3	67.7	72	61	73	75	6203	6203	B	1.30	14.44	CD0203	30
2	1.5	3450	56YZ	JSL725A	11	62.5	3.05	67.4	70.9	74	65	76	81	6203	6203	B	1.20	14.44	CD0203	30
Three Phase																				
1/2	0.37	3450	56YZ	JSM3107	1.2	8.75	0.75	60.4	67.2	70	44	55	65	6203	6203	E1	1.60	11.4	CD0005	30
3/4	0.56	3450	56YZ	JSM3111	1.5	11.4	1.1	62.6	69.8	74	43	55	66	6203	6203	E	1.50	11.4	CD0005	-
1	0.75	3450	56YZ	JSM3115	1.6	14.5	1.51	71.5	77.1	77	59	72	82	6203	6203	E1	1.40	12.02	CD0005	30
1 1/2	1.1	3450	56YZ	JSM3120	2	17	2.3	78.4	81.2	81.5	71	83	89	6203	6203	E1	1.15	12.77	CD0005	30
2	1.5	3450	56YZ	JSM3155	2.7	24.5	3	80	82.3	82.5	70	80	86	6203	6203	E1	1.20	13.4	CD0005	30

NOTE: Single Phase Volt Code: B = 115/230V, 60Hz
Three Phase Volt Code: E = 208-230/460V, 60Hz; E1 = 230/460V, 60Hz, usable at 208V

30 Usable at 208 Volts
See pages 56 and 59 for connection diagrams. See page 45 for dimensions.
Efficiencies shown are nominal. Data subject to change without notice. Contact Baldor for certified data.

SAE Hydraulic Pump Motors Three Phase - TEFC Continuous Duty

Baldor SEA Hydraulic Pump mount motors are design to mount into hydraulic pumps for lifts, trash compactors and other machinery. They include a rigid base mount with SAE A or B pump mount face and shaft. The conduit box is F3 top-mounted for easy connections. These motors are designed for continuous duty but may also be used on intermittent duty applications. Their electrical design includes a robust Class F Insulation and 1.15 Service Factor.



Totally Enclosed Fan Cooled, 230/460 Volts, Three Phase, 5 - 10HP

Hp	kW	RPM	Frame	Catalog Number	Amps @ High V		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		Volt Code	"C" Dim.	Conn. Diag. No.	Notes
					Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE				
5.00	3.7	1745	184TYZ	HPM3615T	6.8	48.40	15.00	87.10	88.30	87.5	59	72	78	6208	6205	E	13.50	CD0005	35
7.50	5.6	1770	213TYZ	HPM3710T	10.1	77.50	22.20	88.10	89.70	89.5	58	71	77	6208	6206	E	14.66	CD0005	35
10.00	7.5	1770	215TYZ	HPM3714T	13.5	107.00	29.50	88.20	89.60	89.5	58	70	77	6208	6206	E	15.79	CD0005	35

NOTE: Volt Code: E = 208-230/460V, 60Hz

35 NEMA Design A
See page 56 for connection diagrams. See page 46 for dimensions.
Efficiencies shown are nominal. Data subject to change without notice. Contact Baldor for certified data.

Vertical P-Base Motors

Applications

Baldor•Reliance solid shaft Vertical P-Base AC motors are the perfect power mates for centrifugal pumps, sump pumps, turbine pumps, in-line process pumps, fans, aerators, mixers, autoclaves, cooling towers and similar applications in general industrial environments.

Additional performance and protection features are available in standard modification packages for customized applications in special environments such as petroleum refining, chemical, processing and water treatment. Baldor•Reliance NEMA LP & VP motors are designed to meet the American Petroleum Institute Standard 610.

Efficiency

There is no need to limit your energy savings to horizontal applications. Significant energy savings and short pay-back periods are also available to you for vertical applications. Baldor•Reliance Vertical AC motors are available in Super-E®, NEMA Premium efficient designs. The same engineering and manufacturing knowledge and experience that go into every horizontal Super-E motor also go into every Vertical P-Base Super-E motor produced. The Super-E design is capable of inverter operation at 1.0 S.F. For selection and application assistance, contact your local Baldor office.

Enclosures

Baldor•Reliance Vertical P-Base AC motors are available in a variety of enclosures and thrust values to suit your application. All frames are cast iron. For the harshest industrial environments, we offer a Severe Duty mechanical package especially designed to meet the challenges of severe applications. Premium features protect motor components from chemicals, corrosion, and abrasives, extending motor life and improving performance. Baldor•Reliance Vertical P-Base AC motors are also available with special Arctic Duty motor construction. This enables the motors to operate successfully in temperatures down to -60 C. Arctic Duty Vertical motor construction is available in 182T through 449T with UL listing for Class 1, Groups C and D and through 5000 frame with non-UL listed construction.

Baldor•Reliance Vertical AC motors are available for normal thrust (NEMA HP), medium thrust (NEMA LP), extended thrust in-line pump (NEMA LP) and extended thrust vertical turbine pump (NEMA VP) ratings. All motors are manufactured to tolerances which meet or exceed NEMA requirements in every frame size and horsepower rating.

Contact your local Baldor office for additional information, pricing and availability.



Enclosed Motors – Thrust values based on L10 = 17,500 hours

NEMA Frame	Thrust Direction	Normal Thrust (lbs.)		Medium Thrust (lbs.)		High Thrust (lbs.)	
		4 pole	2 pole	4 pole	2 pole	4 pole	2 pole
182-184	Into Motor	450	348	981	788	870	683
	Out of Motor					2176	1708
213-215	Into Motor	697	540	1547	1236	1264	1008
	Out of Motor					3160	2520
254-256	Into Motor	913	700	2088	1670	1776	1424
	Out of Motor					4440	3560
284-286	Into Motor	879	691	2054	1661	1762	1420
	Out of Motor					4406	3551
324-326	Into Motor	988	767	2338	1627	1984	1407
	Out of Motor					4960	3517
364-365	Into Motor	1270	950	2450	1940	1260	994
	Out of Motor	980	720	2160	1710	3600	2840
404-405	Into Motor	1310	1020	3930	2000	2075	980
	Out of Motor	890	680	3510	1660	5930	2800
444-445	Into Motor	1270	1000	3890	1960	2023	952
	Out of Motor	740	600	3360	1560	5780	2720
447-449	Into Motor	920	800	3540	1760	1901	882
	Out of Motor	390	400	3010	1360	5430	2520

Open Motors – Thrust values based on L10 = 17,500 hours

NEMA Frame	Thrust Direction	Normal Thrust (lbs.)		Medium Thrust (lbs.)		High Thrust (lbs.)	
		4 pole	2 pole	4 pole	2 pole	4 pole	2 pole
182-184	Into Motor	546	418	1191	953	1062	843
	Out of Motor					2656	2108
213-215	Into Motor	697	540	1547	1236	1264	1008
	Out of Motor					3160	2520
254-256	Into Motor	1063	810	2418	1670	2015	1424
	Out of Motor					5038	3560
284-286	Into Motor	1029	801	2384	1661	2002	1420
	Out of Motor					5004	3551
324-326	Into Motor	1148	887	2663	1627	2205	1407
	Out of Motor					5513	3517
364-365	Into Motor	1257	822	2947	1562	2134	1208
	Out of Motor					6097	3452

Vertical P-Base Motors Three Phase - TEFC

These motors are designed and manufactured for normal, medium and high thrust in-line pump applications typical of waste water treatment plants, petro chemical industries, pulp and paper mills and agricultural irrigation. Motor design includes severe duty construction with corrosion-resistant epoxy finish, cast-iron construction, designed for vertical mounting. Rotatable conduit box, stainless steel nameplates, shaft seals. Energy efficient windings. Two lifting lugs for balanced lifting. All Baldor-Reliance Vertical P-Base motors have 1.15 Service Factor and are Inverter-Ready. Normal thrust VHECP motors meet or exceed NEMA Premium® efficiency levels.



TEFC - Totally Enclosed Fan Cooled, 230/460 Volts, Three Phase, 3 - 75 Hp

Hp	kW	RPM	Frame	Catalog Number	Amps @ High V		F.L. Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		Max Down Thrust Load Lbs.	Volt Code	"C" Dim.	Conn. Diag. No.	Notes
					F.L.	L.R.		1/2	3/4	F.L.	1/2	3/4	F.L.	DE	ODE					
Normal Thrust																				
3	2.2	3500	182HP	VHECP3660T	3.5	37.6	4.5	87.9	89.6	89.5	73	84	89	6307	6206	348	E1	22.18	CD0005	35
3	2.2	1755	182HP	VHECP3661T	4.1	29.8	9.1	88.9	90.1	89.5	58	70	77	6307	6206	450	E	22.18	CD0005	-
5	3.7	3490	184HP	VHECP3663T	5.7	64.8	7.5	89.4	90.8	90.2	76	85	90	6307	6206	348	E1	22.18	CD0005	35
5	3.7	1750	184HP	VHECP3665T	6.5	54	14.9	90.3	91.2	90.2	60	73	80	6307	6206	450	E1	22.18	CD0005	-
7.5	5.6	3525	213HP	VHECP3769T	8.6	75	11.2	90	91.4	91	79	87	90	6309	6206	540	E1	22.33	CD0005	35
7.5	5.6	1770	213HP	VHECP3770T	9.5	68	22.1	91.6	92.3	91.7	65	76	81	6309	6206	697	E1	22.33	CD0005	35
10	7.5	3500	215HP	VHECP3771T	11.2	120	15	92.7	92.9	91.7	82	89	92	6309	6206	540	E1	22.33	CD0005	-
10	7.5	1760	215HP	VHECP3774T	12.5	88.5	29.8	92.9	93.1	92.4	67	78	82	6309	6206	697	E1	22.33	CD0005	35
15	11	3525	254HP	VHECP2394T	17.2	128	22.2	90.8	91.9	91.7	78	86	88	6311	6208	700	E1	25.73	CD0180	-
15	11	1765	254HP	VHECP2333T	18.5	122.9	44.6	91.9	92.6	92.4	66	77	82	6311	6208	913	E1	25.73	CD0005	35
20	15	3540	256HP	VHECP4106T	23	201	29.7	91.1	92.3	92.4	74	84	89	6311	6208	700	E1	25.73	CD0180	35
20	15	1765	256HP	VHECP2334T	24	175	59	92.8	93.1	93	69	80	84	6311	6208	913	E1	25.73	CD0005	-
25	19	3530	284HP	VHECP4107T	28	236	37.2	93	93.5	93	82	89	91	6311	6208	691	E1	25.72	CD0180	35
25	19	1770	284HP	VHECP4103T	30	186	74.2	92.3	93.5	93.6	73	81	85	6311	6309	879	E1	30.69	CD0005	-
30	22	3520	286HP	VHECP4108T	33	281	44.7	93.2	93.5	93	83	89	92	6311	6208	691	E1	25.72	CD0180	35
30	22	1770	286HP	VHECP4104T	36	246	89	93.8	94.4	94.1	66	75	83	6311	6309	879	E1	30.69	CD0005	-
40	30	3540	324HP	VHECP4109T	45	326	59.5	92.3	93.4	93.6	80	87	90	6312	6311	767	E1	34.72	CD0180	-
40	30	1775	324HP	VHECP4110T	46	320	118	93.9	94.6	94.5	73	81	84	6312	6311	988	E1	34.72	CD0180	-
50	37	3540	326HP	VHECP4114T	56	403	74.1	94	94.5	94.1	80	87	89	6312	6311	767	E	34.72	CD0180	-
50	37	1775	326HP	VHECP4115T	57	392	149	94.4	94.9	94.5	73	82	85	6312	6211	988	E1	34.72	CD0180	-
60	45	3560	364HP	VHECP4310T	65.1	398	88.5	95.3	95.5	95	88	91	91	6313	6313	822	E1	35.25	416820-2	-
60	45	1780	364HP	VHECP4314T	68	430	177	95.2	95.3	95	79	85	87	6313	6313	1257	E1	35.25	416820-2	-
75	56	3555	365HP	VHECP4313T	80.7	494	111	95.1	95.4	95	91	92	92	6313	6313	822	E1	35.25	416820-2	-
75	56	1780	365HP	VHECP4316T	85.9	542	221	95.7	95.8	95.4	77	84	86	6313	6313	1257	E1	35.25	416820-2	-

NOTES: Volt Code: E = 208-230/460V, 60Hz; E1 = 230/460V, 60Hz, usable at 208V
35 = NEMA Design A

See pages 56 and 57 for connection diagrams. See page 47 for dimensions.

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

Shaded ratings are cast iron frames.

TEFC - Totally Enclosed Fan Cooled, 230/460 Volts, Three Phase, 3 - 75 Hp

Hp	kW	RPM	Frame	Catalog Number	Amps @ High V		F.L. Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		Max Down Thrust Load Lbs.	Volt Code	"C" Dim.	Conn. Diag. No.	Notes
					F.L.	L.R.		1/2	3/4	F.L.	1/2	3/4	F.L.	DE	ODE					
Medium Thrust																				
3	2.2	3470	182LP	VLCP3660T	3.7	33	4.56	83.6	85.7	85.5	73	84	89	QJ307	6206	788	E	22.18	CD0005	-
3	2.2	1750	182LP	VLCP3661T	4.1	32.4	8.9	86.1	87.8	87.5	59	71	78	QJ307	6206	981	E	22.18	CD0005	-
5	3.7	3460	184LP	VLCP3663T	5.9	54.6	7.53	87.6	89	87.5	77	89	90	QJ307	6206	788	E	22.18	CD0005	-
5	3.7	1750	184LP	VLCP3665T	6.9	46.6	15	86.4	88.5	87.5	58	70	77	QJ307	6206	981	E	22.18	CD0005	-
7.5	5.6	3480	213LP	VLCP3769T	9.5	58.5	11.2	88.3	89.2	88.5	68	80	84	QJ211	6307	1236	E	22.33	CD0005	-
7.5	5.6	1765	213LP	VLCP3770T	10.3	74.3	22.2	87.6	89.3	89.5	57	69	76	QJ211	6307	1547	E	22.33	CD0005	35
10	7.5	3500	215LP	VLCP3771T	12.0	81.5	14.9	90.2	91	89.5	73	81	86	QJ211	6307	1236	E	22.33	CD0005	-
10	7.5	1760	215LP	VLCP3774T	13.0	88.4	29.85	88.9	89.8	89.5	62	74	80	QJ211	6307	1547	E	22.33	CD0005	-
15	11	3480	254LP	VLCP2394T	17.2	126	22.4	90.5	91	90.2	81	88	90	QJ211	6307	1670	E	22.33	CD0005	35
15	11	1760	254LP	VLCP2333T	18.5	147.3	44.6	91.6	92.1	91	68	78	83	QJ211	6307	2088	E	25.54	CD0005	35
20	15	3525	256LP	VLCP4106T	23.0	189	30	88.3	90.4	90.2	78	87	90	QJ213	6208	1670	F	25.72	CD0005	-
20	15	1760	256LP	VLCP2334T	24.0	152	59.8	91.1	91.9	91	70	80	85	QJ213	6208	2088	E1	25.72	CD0180	-
25	19	3510	284LP	VLCP4107T	28.0	227	37.3	91.4	91.9	91	81	88	91	QJ213	6208	1661	E1	27.47	CD0180	35
25	19	1760	286LP	VLCP4103T	30.0	216	74.3	92.2	92.8	92.4	71	81	85	QJ213	6208	2054	E1	27.47	CD0005	-
30	22	3520	286LP	VLCP4108T	34.0	282	44.8	91.6	92.1	91	82	88	91	QJ213	6208	1661	E	27.47	CD0180	35
30	22	1765	286LP	VLCP4104T	37.0	217	89.2	91.2	92.4	92.4	69	78	82	QJ213	6309	2054	E1	32.44	CD0005	-
40	30	3530	324LP	VLCP4109T	45.0	327	58.5	90.3	91.8	91.7	79	86	89	QJ312	6311	1627	E1	34.72	CD0180	-
40	30	1775	324LP	VLCP4110T	47.0	300	119	92.4	93.2	93	73	82	85	QJ312	6311	2338	E1	34.72	CD0180	-
High Thrust																				
50	37	3540	326VP	VPCP4114T	57	367	74.3	91.4	92.6	92.4	83	88	89	QJ311	6311	1627	E	34.71	CD0180	-
50	37	1770	326VP	VPCP4115T	59	361	148	92.6	93.2	93	74	82	85	QJ312	6311	2338	E1	34.71	CD0180	-
60	45	3555	364VP	VPCP4310T	72.8	387	88.6	91.9	93.1	93	71	80	83	6313	7310	1562	E1	37.25	416820-2	-
60	45	1780	364VP	VPCP4314T	73.4	428	177	93.4	94	93.6	69	78	82	6313	7310	2947	E1	37.25	416820-2	-
75	56	3555	365VP	VPCP4313T	87.9	495	111	92.3	93.2	93	77	83	86	6313	7310	1562	E1	37.25	416820-2	-
75	56	1780	365VP	VPCP4316T	87.0	542	221	94.5	94.7	94.1	76	83	86	6313	7310	2947	E1	37.25	416820-2	-

NOTES: Volt Code: E = 208-230/460V, 60Hz; E1 = 230/460V, 60Hz, usable at 208V
35 = NEMA Design A

Shaded ratings are cast iron frames.

See pages 56 and 57 for connection diagrams. See page 47 for dimensions.
Efficiencies shown are nominal. Data subject to change without notice. Contact Baldor for certified data.

Vertical P-Base Motors Three Phase - ODP

These pump motors are well suited for normal thrust, solid shaft pumping applications where an open enclosure is required. They are capable of 100% thrust in either direction. Rugged cast iron construction includes frame and endplates. The motor has two lifting lugs for balanced lifting and a rotatable conduit box for easy connections. An epoxy finish and stainless nameplate provide long life. These motors have Class F insulation with a 1.15 service factor and operate within Class B temperature limits at rated load.



Open Drip Proof, 230/460 Volts, Three Phase, 3 - 60 Hp

Hp	kW	RPM	Frame	Catalog Number	Amps @ High V		F.L. Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		Volt Code	"C" Dim.	Conn. Diag. No.	Notes
					F.L.	L.R.		1/2	3/4	F.L.	1/2	3/4	F.L.	DE	ODE				
Normal Thrust																			
3	2.2	3450	182HP	VHM3210T	3.7	28.8	4.65	86	87.3	84	79	88	91	6308	6205	E	21.33	CD0005	-
3	2.2	1750	182HP	VHM3211T	4.2	29.8	9.08	84.6	86.5	86.5	58	71	78	6308	6205	E	21.33	CD0005	-
5	3.7	3450	184HP	VHM3212T	5.7	44.4	7.54	81.7	84.7	85.5	89	93	94	6308	6205	E	21.33	CD0005	-
5	3.7	1750	184HP	VHM3218T	6.9	46.6	15	87.1	88.3	87.5	59	71	77	6308	6205	E	21.33	CD0005	-
7.5	5.6	3450	184HP	VHM3219T	8.5	73	11.5	89.9	89.4	87.5	90	93	95	6308	6205	E	21.33	CD0005	35
7.5	5.6	1760	213HP	VHM3311T	10.7	65.3	22.2	86.2	88.2	88.5	54	67	74	6309	6206	E	23.68	CD0005	-
10	7.5	3450	213HP	VHM3312T	11.6	71.4	14.9	90.3	90	88.5	81	88	90	6309	6206	E	23.68	CD0005	-
10	7.5	1760	215HP	VHM3313T	13	88.4	29.9	88.9	89.8	89.5	62	74	80	6309	6206	E	23.68	CD0005	-
15	11	3450	215HP	VHM3314T	16.8	123	22.7	91.7	91.1	89.5	86	91	90	6309	6206	E	23.68	CD0005	-
15	11	1760	254HP	VHM2513T	18.1	125	45	90.8	91.7	91	72	81	85	6311	6208	E	26.73	CD0005	-
20	15	3510	254HP	VHM2514T	23.5	153	29.6	90.1	91.2	90.2	74	83	88	6312	6208	E1	26.73	CD0180	-
20	15	1760	256HP	VHM2515T	25	150	60	90.5	91.4	91	68	79	82	6312	6208	E1	26.73	CD0005	-
25	19	3510	256HP	VHM2516T	29	187	37.3	91	91.6	91	78	86	89	6312	6208	E1	26.73	CD0180	-
25	19	1770	284HP	VHM2531T	30	176	74.2	91.3	92.4	92.4	70	79	84	6312	6309	E1	29.93	CD0005	-
30	22	3520	284HP	VHM2534T	34	282	44.8	91.6	92.1	91	82	88	91	6312	6208	E1	26.74	CD0180	35
30	22	1775	286HP	VHM2535T	38.2	260	89	91.6	92.8	92.4	63	74	80	6312	6309	E1	29.93	CD0180	-
40	30	3520	286HP	VHM2538T	45	329	59.7	90.8	91.8	91.7	83	88	90	6312	6309	E1	29.93	CD0180	-
40	30	1775	324HP	VHM2539T	47	300	119	92.4	93.2	93	73	82	85	6313	6311	E1	33.87	CD0180	-
50	37	3540	324HP	VHM2542T	57	367	74.3	91.4	92.7	92.4	83	88	89	6313	6311	E	33.87	CD0180	-
50	37	1770	326HP	VHM2543T	59	361	148	92.6	93.2	93	74	82	85	6313	6311	E1	33.87	CD0180	-
60	45	3540	326HP	VHM2546T	66	489	88.8	91.5	92.8	93	85	90	91	6313	6311	E	33.87	CD0180	-

NOTES: Volt Code: E = 208-230/460V, 60Hz; E1 = 230/460V, 60Hz, usable at 208V
35 = NEMA Design A

See pages 56 and 57 for connection diagrams. See page 48 for dimensions.

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

Shaded ratings are cast iron frames.

Submersible Motors

Baldor offers submersible motors serving both municipal and industrial wastewater markets for both wet & dry pit applications. Wet pit motors use the effluent for cooling and can run 15 minutes in air. Dry pit motors are designed to run continuously in air or submerged when properly applied. Baldor also offers designs suitable for rugged slurry pump applications, aerators and mixers.

These motors are tough and corrosion resistant, with cast iron frame and end shields, 316 stainless steel hardware and 416 stainless steel shaft. In addition, they are U/L listed and CSA certified for Class 1 Division 1 Groups C & D, with a T3C temperature code. Manufactured with a Type 21 tandem seal design, it will withstand 100 psi (sum of operating depth and reflected pump pressure) at the lower/outer seal. Dual moisture probes will detect any moisture in the oil chamber. These motors are covered by a 5 year prorated warranty.

Submersible Motor Features:

- Energy efficient and Premium efficient designs
- 1.15 S.F. on Sine Wave, 1.0 S.F. on inverter
- Class F insulation
- UL & CSA Listed on Sine wave power for Div. 1, Class I, Group C & D, T3C Temp Code
- 10:1 Variable Torque capable on Inverter with UL & CSA Listing for Div. 1, Class I, Group D, T2A Temp Code
- Cast Iron Construction
- P-Base mounting flange
- 416 Stainless Steel Shaft
- Type 21 carbon ceramic mechanical shaft seals. Outer/lower seal must be lubricated by the pump on Dry Pit applications.
- O-rings and Sealed fits in stator housing and end plates
- Non-wicking, potted cable cap assembly securely attaches and seals the power leads to the frame. Cable cap design allows for easy removal and reconnection of the power cable.
- Drive end oil chamber provides a barrier against moisture ingress into the bearings as well as lubricating the upper seal. Oil chamber is filled prior to shipment.
- Moisture probes mounted in oil chamber to detect ingress of moisture. Moisture control relay supplied by customer.
- (2) Integral cast in lifting provisions for easy, balanced lifting and mounting of the motor
- Deep groove Conrad type ball bearings, Class 3 fit per AFBMA std. 20
- (2) N.C. Thermostats
- 416 Corrosion resistant stainless steel nameplate and exterior hardware
- 25 foot power & control cables
- Neoprene jacketed power and control cables
- 5 Year Prorated Warranty from date of Manufacture.

Common Options:

- Class H insulation system
- Inner and outer seals options
- Shaft materials
- One size smaller flange and shaft
- Special paint (Coal tar epoxy paint)
- Cable lengths to 100 feet (Longer lengths require approval)
- Water Jacket Design (to reduce frame size requirements)
- Labyrinth Slinger on D.E. suitable for XP

Submersible Motors - Capabilities

Maximum Horsepower per frame (based on 1800 rpm) for UL Approved and Non-UL Approved designs

Frame	Three Phase			Single Phase	
	15 min in air	Continuous in air	NEMA 12-12 Efficient 15 min in air	15 min in air	Continuous in air
180TY	7.5	3	5	3	1
210TY	20	5	10	5	1.5
250TY	40	10	20	-	-
320TY	75	20	60	-	-
360TY	150	40	125	-	-
440TY	450	150	350	-	-

Submersible Motors - Bearing Thrust Capabilities

Minimum bearing L10 life = 17,500 hours with the below listed conditions.

Frame	RPM	Max Impeller Weight	Max Radial Load Including Impeller	Max Axial (In or Out) Thrust	Radial Load Distance from Flange Face
		(lbs)	(lbs)	(lbs)	(inches)
180TY	1800 1200	70	200	310 380	4.00
210TY	1800 1200	80	380	400 520	4.00
250TY	1800 1200	100	550	650 800	4.50
320TY	1800 1200	130	1200	1600 1980	5.00
360TY	1800 1200	130	1100	2140 2310	5.50

Note: Max Axial load tested in combination with Max Radial load
Size 7222 Back-to-Back angular contact bearings available on 360 frames for higher thrust load capabilities.



Submersible Motor Construction

Potting:

Epoxy-filled, non-wicking cable cap assembly

Exterior Threads:

To provide conduit or added cable seal or support

Power and Control Cables:

Neoprene jacketed; 25 feet of cable as standard; other lengths available

Motor Leads:

Class F temperature rated lead material. Leads are butt spliced within epoxy filled cable cap to provide secure non-wicking design.

Integral Lifting Lugs:

Bearings:

Single row, deep groove or double row angular contact, Conrad type

Construction:

All cast iron

Stator:

Double dip and bake process insulation system Class F minimum

Inner and Outer Seals:

Two independently mounted Type 21 mechanical face type seals.

O-Rings (Qty 4):

Sealed deep groove joints/registers in stator housing and end plates.

Moisture Probes:

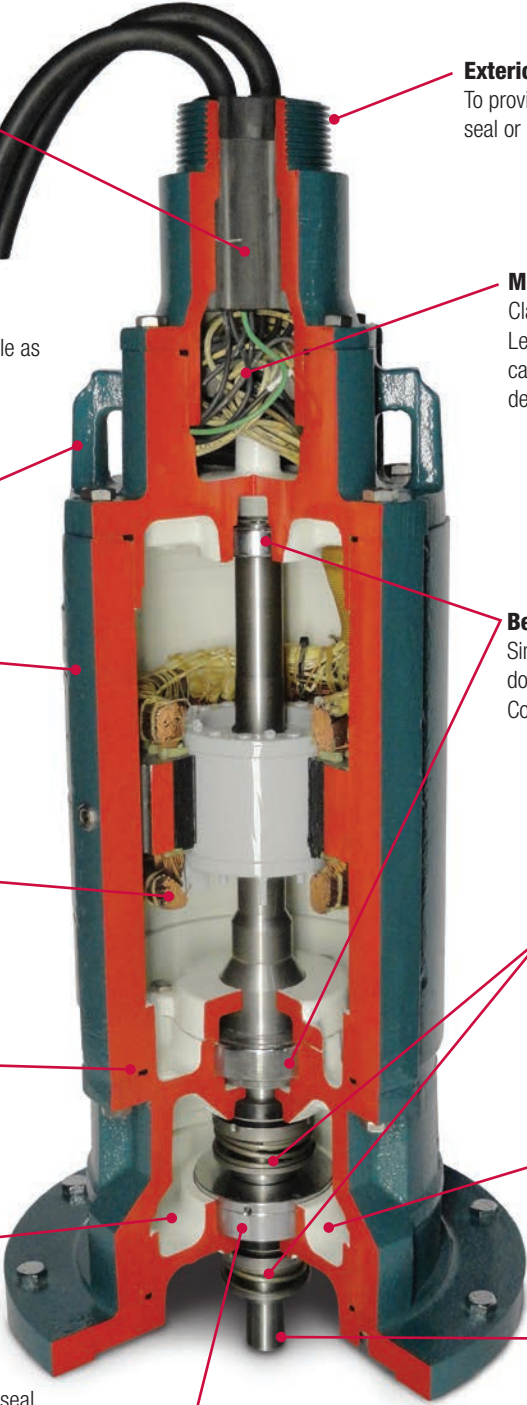
Mounted in oil chamber to detect ingress of moisture. Moisture control relay supplied by customer.

Oil Chamber:

Acts as a barrier to trap moisture and provide sufficient time for shut down. Also provides lubrication for upper seal

Shaft:

416 Stainless Steel and hardware



Available Slurry Seal Design:

Pumping highly viscous fluids is the most demanding type of pumping application on shaft seal life. It requires a better sealing solution to protect the seals from the abrasive fluid. Unlike the tandem inner and outer seal in typical submersible applications, slurry seals are contained completely within the motor's oil chamber to protect the seals.

Immersible Motors

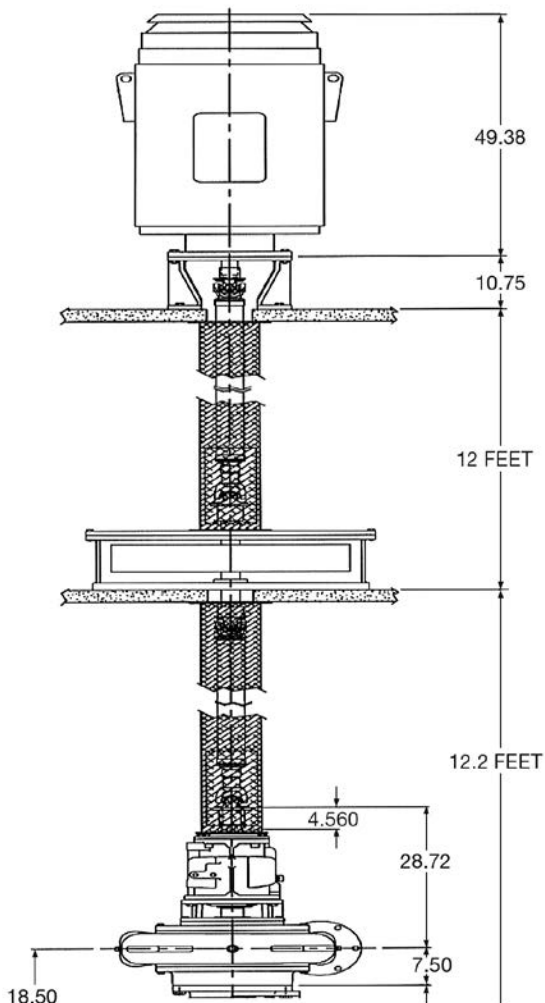
Baldor•Reliance® custom Immersible motors are designed for use in non-hazardous area Dry Pit applications where the possibility of flooding exists. Such applications are typical in the industrial water and wastewater industry. The motor features totally enclosed, blower-cooled enclosures and are designed with a unique sealing system that exceeds IP67 enclosure requirements. This system allows reliable operation for a period of two weeks while submerged under a maximum depth of thirty feet of water.

Immersible motors save customers from having to use more expensive submersible design motors. They also save on installation costs by eliminating support structure and shaft extensions typically required to mount the pump motor above the high water level of the pit.

Baldor•Reliance Immersible motors reduce down time and replacement costs after each submersion. Non immersible motor designs would have to be rebuilt or replaced after being submerged. The immersible motor solution only needs to pass a routine inspection of the bearings and seals on the main motor. On 250T frames and up, there is minimal replacement costs of the 1/2HP blower motor to get back up and running.

Traditional Dry Pit Pump installation:

A standard TEFC motor is mounted more than 20 feet above pump.



Immersible Motor Solution:

The motor mounts directly on pump. When submerged it will operate for two weeks at max depth of 30 feet. Construction & installation costs are reduced by eliminating support structure for non-immersible motors.



Immersible motors are the ideal choice for industrial pumping applications where the possibility of flooding exists. Contact your local Baldor office for pricing and availability.

Immersible Motor Operating Conditions:

- Continuous in Air
- Non-hazardous area applications
- 14 days submerged in up to 30 feet of water
- Suitable for 10:1 Variable Torque speed Range on inverter power.

Immersible Motor Features:

- Premium efficient designs
- P-Base or C-face mounting
- Vertical or horizontal mounting available
- Cast Iron Construction
- (2) vertical lifting provisions for easy, balanced lifting and mounting of the motor
- Single shielded, deep groove Conrad type bearings, Class 3 fit per AFBMA std. 20
- 100,000 Hr L10 life min., for flexible direct coupled applications, normal thrust
- Top mounted thrust bearing designs available to meet HP, LP & VP thrust requirements.
- Top mounted bearing in LP or VP designs meets the requirements of A.P.I. Spec # 610
- Dual Lip Seals with grease packed cavity on drive end to prevent moisture entry
- The motor exceeds the IP67 requirements of two weeks submersion at a depth of thirty feet.
- Patented immersible motor sealing system. Includes Submersible type cable cap assembly to protect motor connections from moisture while allowing for easy removal of the power cable
- Potted leads between c/box and frame seals the motor frame when submerged
- 10:1 VT speed range when operating on adjustable frequency power
- Winding temperature detectors (thermostats) to protect against blower motor shutoff while running in air
- Space heater to prevent build up of condensation inside the motor frame
- Corrosion resistant stainless steel nameplate and exterior hardware
- 25 foot power cable, other lengths available
- 18 Month Warranty from date of Manufacture

Ratings Capabilities Chart – 460Volt, 3 Phase designs

HP	3600 RPM	1800 RPM	1200 RPM	900 RPM
	Frame	Frame	Frame	Frame
5	210	210	210	250
7.5	210	210	210	250
10	210	250	250	320
15	250	250	250	320
20	250	250	250	320
25	280	280	320	320
30	280	280	320	360
40	320	320	320	360
50	320	320	320	400
60	360	360	360	400
75	360	360	360	440
100	400	400	400	440
125	400	440	400	440
150	440	440	440	440
200	440	440	440	440
250	440	440	440	–

NOTES:

- 210 frame are TENV
- 250 and above are TEBC

Immersible motors are the ideal choice for industrial pumping applications where the possibility of flooding exists. Contact your local Baldor office for pricing and availability.

Immersible Motor Construction Features

Separately powered 1/2 HP Baldor•Reliance Washdown Duty blower motor(250 Frame & up). Operates continuously in air. Connected to customer supplied float switch for safe shut-off prior to submersion. Blower motor is replaced after being submerged.

Totally Enclosed Blower Cooled enclosure (TENV in 210 frame) eliminates fan end shaft extension hole in the frame for better sealing. Meets or exceeds IP67 enclosure requirements.

Drip Cover and Safety screen protects the fan from damage.

All mounting hardware shall be high strength, SAE Grade 5, and plated for protection.

Space Heaters prevent condensation build up inside of the motor frame.

Normal Thrust applications use single shielded bearing construction, deep groove Conrad type, with a Class 3 internal fit conforming to AFBMA std 20. Bearing L10 life of 100,000 hrs minimum for flexible direct coupled applications.

All mating fits have rabbet joints with O-rings to ensure a watertight design. Sealing compound on fits and hardware

Grease inlet and outlet on both ends of motor.

(2) Vertical lifting ears provide for easy balanced lifting and mounting of the motor.

25 Feet of power cable is provided as standard.

Corrosion resistant stainless steel nameplate and exterior hardware.

Premium efficient electrical design windings provide for lower cost operation.

Conduit box uses Submersible motor cable cap design to securely protect motor connections from water ingress while allowing the power cable to be removable. Features include: Epoxy filled non-wicking cap assembly and O-rings between cap and box.

Rugged finned cast iron construction provides maximum cooling for smaller motor design and protects the motor while operating harsh environments.

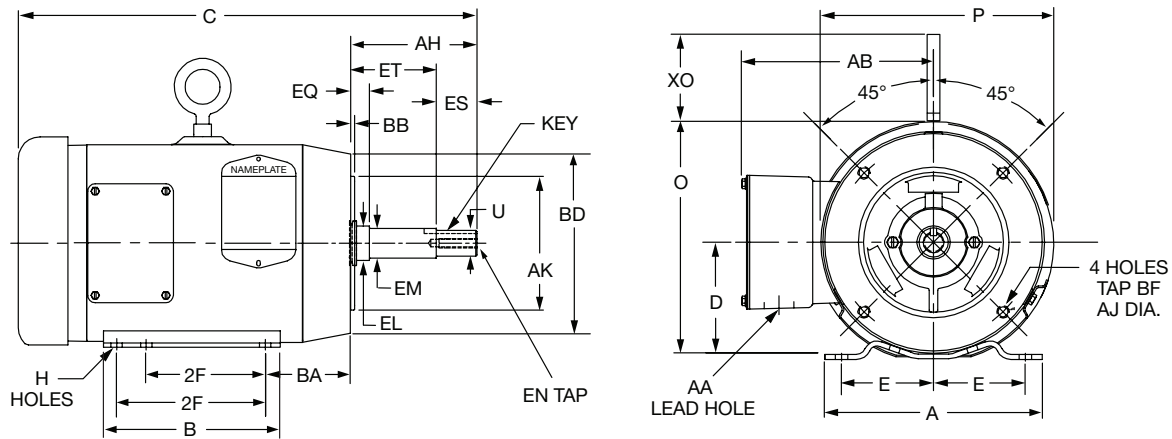
Potted leads between frame and conduit box seals the motor frame when submerged.

N.C. Thermostats embedded in the motor winding protect the motor from overheating if the Blower motor is shut off while operating in air.

Dual lip seals with grease packed cavity on drive end.

Dimensions

Close-Coupled Pump Motors – TEFC JM Mount NEMA 143JM - 326JM



NEMA Frame	A	B	D	E	2F	H	Key	O	P	U	AA	AB	AH	AJ	BF Tap	AK	BA	BB	BD	XO
Steel Band Construction																				
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
Cast Iron																				
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

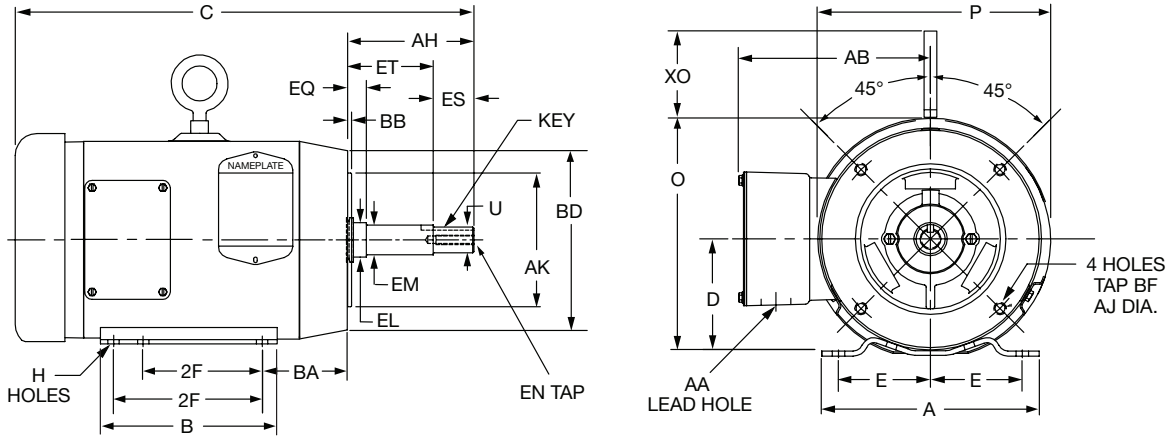
Shaft Dimensions

NEMA Frame	EL	EM	EN	EQ	ES	ET
Steel Band Construction						
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
Cast Iron						
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 Baldor or www.baldor.com for a detailed dimension drawing for your specific catalog number.

Dimensions

Close-Coupled Pump Motors – TEFC JP Mount NEMA 215JP - 326JP



NEMA Frame	A	B	D	E	2F	H	KEY	O	P	U	AA	AB	AH	AJ	BF TAP	AK	BA	BB	BD	XO
Steel Band Construction																				
215JP	9.50	8.00	5.25	4.25	7.00	0.41	0.19	10.03	9.56	0.875	1.38	8.04	8.125	7.25	1/2-13	8.50	4.50	0.25	9.06	2.40
Cast Iron																				
254JP	11.50	11.50	6.25	5.00	8.25	0.53	0.25	12.88	12.94	1.250	1.38	10.04	8.125	7.25	1/2-13	8.50	4.75	0.25	9.09	2.72
256JP	11.50	11.50	6.25	5.00	10.00	0.53	0.25	12.88	12.94	1.250	1.38	10.04	8.125	7.25	1/2-13	8.50	4.75	0.25	9.09	2.72
284JP	12.75	12.84	7.00	5.50	9.50	0.53	0.25	14.44	15.29	1.250	2.00	13.11	8.125	11.00	5/8-11	12.50	4.75	0.25	13.05	2.72
286JP	12.75	12.84	7.00	5.50	11.00	0.53	0.25	14.44	15.29	1.250	2.00	13.11	8.125	11.00	5/8-11	12.50	4.75	0.25	13.05	2.72
324JP	14.50	14.00	8.00	6.25	10.50	0.66	0.25	16.25	17.85	1.250	2.50	14.61	8.125	11.00	5/8-11	12.50	5.25	0.25	13.40	3.22
326JP	14.50	14.00	8.00	6.25	12.00	0.66	0.25	16.25	17.85	1.250	2.50	14.61	8.125	11.00	5/8-11	12.50	5.25	0.25	13.40	3.22

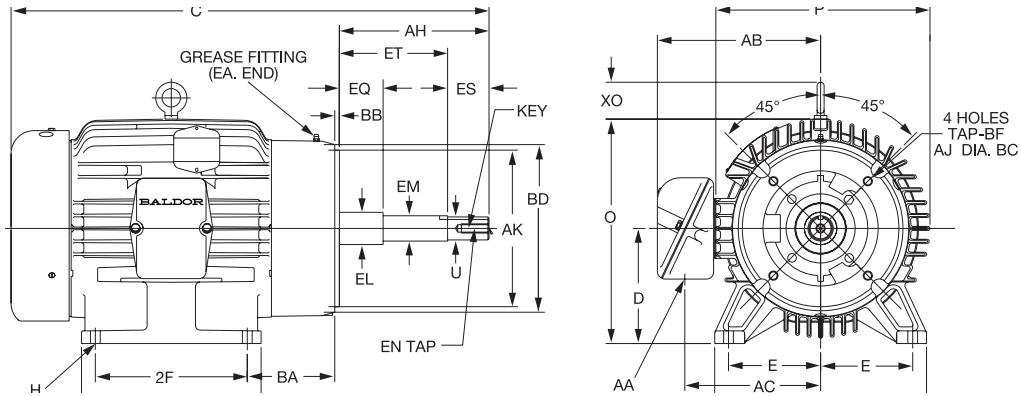
Shaft Dimensions

NEMA Frame	EL	EM	EN	EQ	ES	ET
Steel Band Construction						
215JP	1.75	1.38	0.50-13x1.12	2.375	2.25	5.875
Cast Iron						
254JP	1.75	1.38	0.50-13x1.12	2.375	2.25	5.875
256JP	1.75	1.38	0.50-13x1.12	2.375	2.25	5.875
284JP	1.75	1.38	0.50-13x1.12	2.375	2.25	5.875
286JP	1.75	1.38	0.50-13x1.12	2.375	2.25	5.875
324JP	1.75	1.38	0.50-13x1.25	2.375	2.25	5.875
326JP	1.75	1.38	0.50-13x1.25	2.375	2.25	5.875

NOTE: Dimension for reference only. Contact Baldor or www.baldor.com for a detailed dimension drawing for your specific catalog number.

Dimensions

Close-Coupled Pump Motors Totally Enclosed, Fan-Cooled NEMA 254JM through 326JM



NEMA Frame	A	B	D	E	2F	H	Key	O	P	U	AA	AB	AC	AJ	AK	BA	BB	BD	Tap BF	XO
254JM-JP 700Typ	11.50	9.75	6.25	5.00	8.25	0.53	0.25	12.18	11.63	1.249	1.38	8.86	7.37	7.25	8.50	4.75	0.25	9.10	1/2-13	2.00
256JM-JP					10.00															
254JM-JP 900Typ	11.50	11.50	6.25	5.00	8.25	0.53	0.25	12.88	12.94	1.249	1.38	9.48	7.99	7.25	8.50	4.75	0.25	9.09	1/2-13	2.72
256JM-JP					10.00															
284JM-JP					9.50															
286JM-JP	12.75	12.84	7.00	5.50	11.00	0.53	0.25	14.44	15.57	1.249	2.00	13.12	10.56	11.00	12.50	4.75	0.25	13.05	5/8-11	2.72
324JM-JP					10.50															
326JM-JP	14.50	14.00	8.00	6.25	12.00	0.66	0.25	16.25	17.85	1.249	2.00	14.61	12.06	11.00	12.50	5.25	0.25	13.40	5/8-11	3.22

Note: (Section B) NEMA 254JM Catalog # VJMM2333T AB=9.15, AC=7.31. Catalog # VJMM2334T AB= 10.04, AC = 8.19.

JM Shaft Dimensions

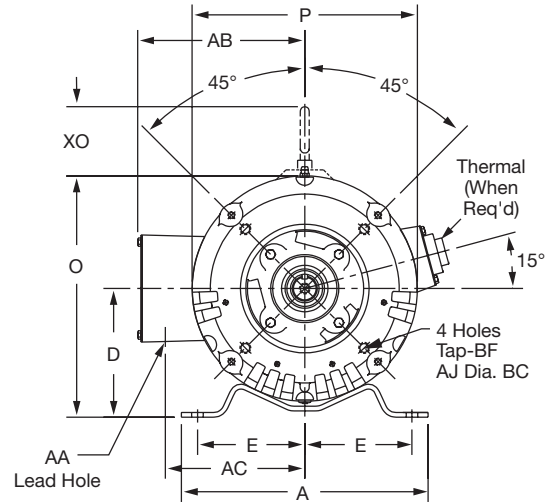
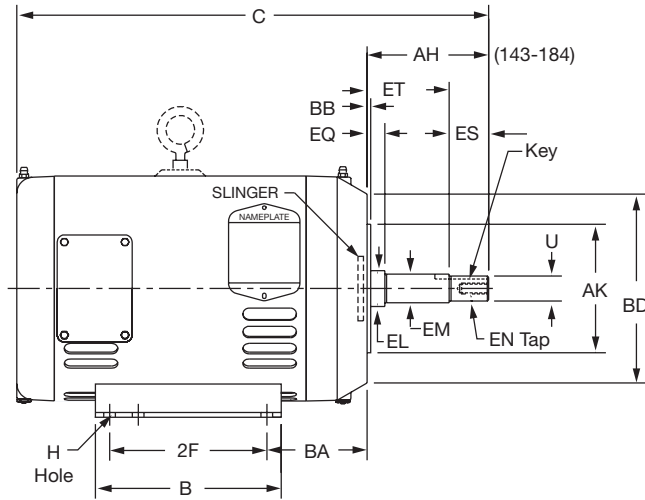
JP Shaft Dimensions

NEMA Frame	AH	EL	EM	EN	EQ	ES	ET	NEMA Frame	AH	EL	EM	EN	EQ	ES	ET
254JM 700Typ 256JM	5.28	17.50	13.75	1/2-13	0.640	2.26	3.015	254JP 700Typ 256JP	8.156	1.750	1.375	1/2-13	2.390	2.26	5.890
254JM 900Typ 256JM	5.25	1.375	1.375	1/2-13	0.625	2.25	3.00	254JP 900Typ 256JP	8.125	1.750	1.375	1/2-13	2.375	2.25	5.875
284JM 286JM	5.25	1.375	1.375	1/2-13	0.625	2.25	3.00	284JP 286JP	8.125	1.705	1.375	1/2-13	2.375	2.25	5.875
324JM 326JM	-	-	-	-	-	-	-	324JP 326JP	8.125	1.750	1.375	1/2-13	2.375	2.25	5.875

NOTE: Dimension for reference only. Contact Baldor or www.baldor.com for a detailed dimension drawing for your specific catalog number.

Dimensions

Close-Coupled Pump Motors – Open Drip Proof JM Mount NEMA 143JM - 326JM



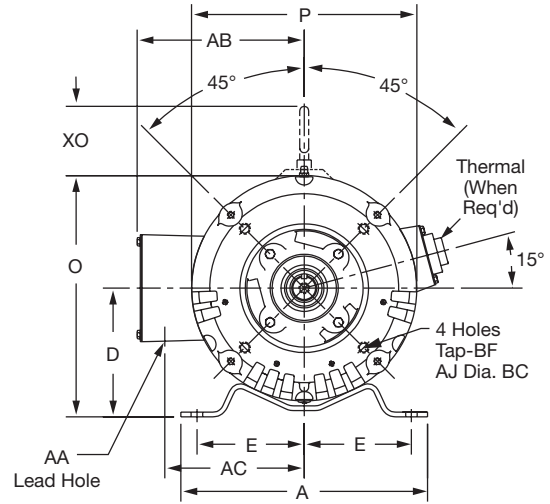
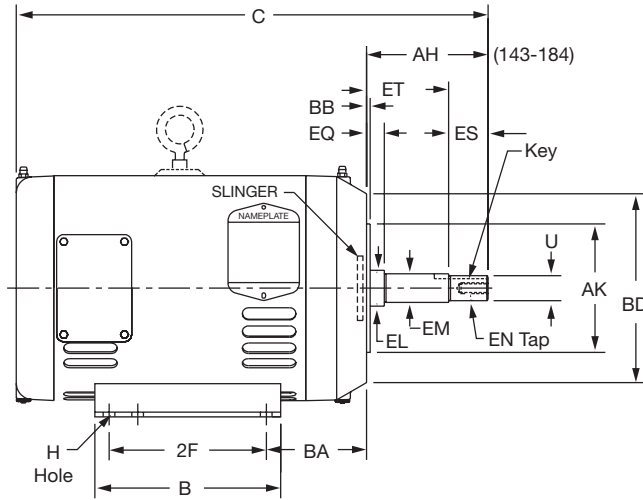
NEMA Frame	A	B	D	E	2F	H	Key	O	P	U	AA	AB	AC	AH	AJ	AK	BB	BD	BF	Tap BA
143JM 145JM	6.50	5.94	3.50	2.75	4.00 5.00	0.34	0.19	6.77	6.62	0.875	0.88	5.61	4.56	4.28	5.88	4.50	0.13	6.51	0.38-16	2.88
182JM 184JM	8.63	6.50	4.50	3.75	4.50 5.50	0.41	0.19	8.44	7.88	0.875	1.09	6.74	5.70	4.25	5.88	4.50	0.13	6.61	0.38-16	3.50
213JM 215JM	9.50	8.00	5.25	4.25	5.50 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
254JM 256JM	11.25	11.25	6.25	5.00	8.25 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
284JM 286JM	12.25	12.25	7.00	5.50	9.50 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
324JM 326JM	14.04	13.50	8.00	6.25	10.50 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

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

NOTE: Dimension for reference only. Contact Baldor or www.baldor.com for a detailed dimension drawing for your specific catalog number.

Dimensions

Close-Coupled Pump Motors – Open Drip-Proof JP Mount NEMA 213JP - 326JP



NEMA Frame	A	B	D	E	2F	H	Key	O	P	U	AA	AB	AC	AH	AJ	AK	BB	BD	BF	Tap BA
213JP	9.50	8.00	5.25	4.25	5.50	0.41	0.188	10.03	15.59	0.875	1.38	7.92	6.72	8.125	7.25	8.50	0.25	9.07	0.50-13	4.25
215JP	9.50	8.00	5.25	4.25	7.00	0.41	0.188	10.03	15.59	0.875	1.38	7.92	6.72	8.125	7.25	8.50	0.25	9.07	0.50-13	4.25
254JP	11.25	11.25	6.25	5.00	8.25	0.53	0.25	12.00	15.59	1.25	1.38	9.49	7.69	8.125	7.25	8.50	0.25	9.45	0.50-13	4.75
256JP	11.25	11.25	6.25	5.00	10.00	0.53	0.25	12.00	15.59	1.25	1.38	9.49	7.69	8.125	7.25	8.50	0.25	9.45	0.50-13	4.75
284JP	12.25	12.25	7.00	5.50	9.50	0.53	0.25	13.63	13.25	1.25	2.00	12.21	9.72	8.125	11.00	12.50	0.25	13.03	0.62-11	4.75
286JP	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	8.125	11.00	12.50	0.25	13.03	0.62-11	4.75
324JP	14.04	13.50	8.00	6.25	10.50	0.66	0.25	15.59	15.16	1.375	2.50	13.20	10.71	8.125	11.00	12.50	0.25	13.31	0.62-11	5.25
326JP	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	8.125	11.00	12.50	0.25	13.31	0.62-11	5.25

NEMA Frame	EL	EM	EN	EQ	ES	ET
213JP	1.75	1.38	0.50-13x1.12	2.375	2.25	5.875
215JP	1.75	1.38	0.50-13x1.12	2.375	2.25	5.875
254JP	1.75	1.38	0.50-13x1.12	2.375	2.25	5.875
256JP	1.75	1.38	0.50-13x1.12	2.375	2.25	5.875
284JP	1.75	1.38	0.50-13x1.12	2.375	2.25	5.875
286JP	1.75	1.38	0.50-13x1.12	2.375	2.25	5.875
324JP	1.75	1.38	0.50-13x1.12	2.375	2.25	5.875
326JP	1.75	1.38	0.50-13x1.12	2.375	2.25	5.875

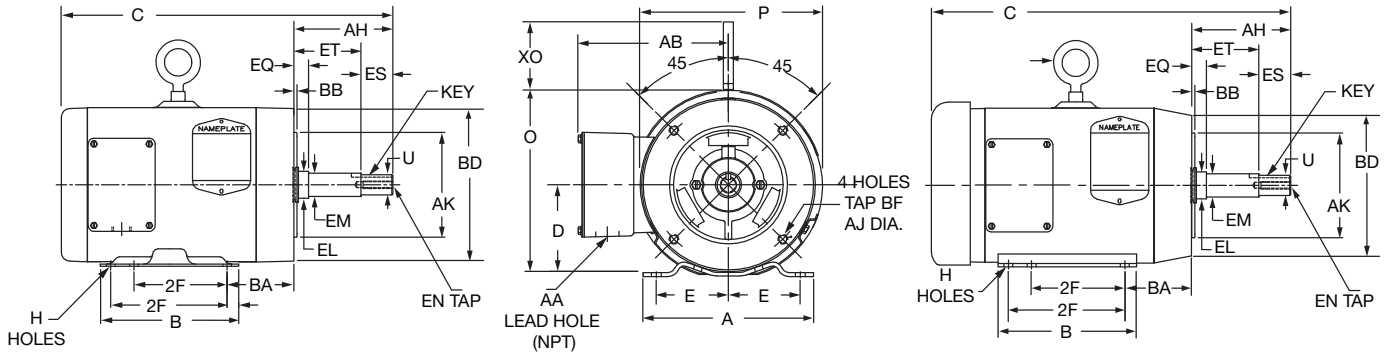
NOTE: Dimension for reference only. Contact Baldor or www.baldor.com for a detailed dimension drawing for your specific catalog number.

Dimensions

Washdown Duty Close-Coupled Pump NEMA 143JM through 215JM

TENV Enclosure

TEFC Enclosure



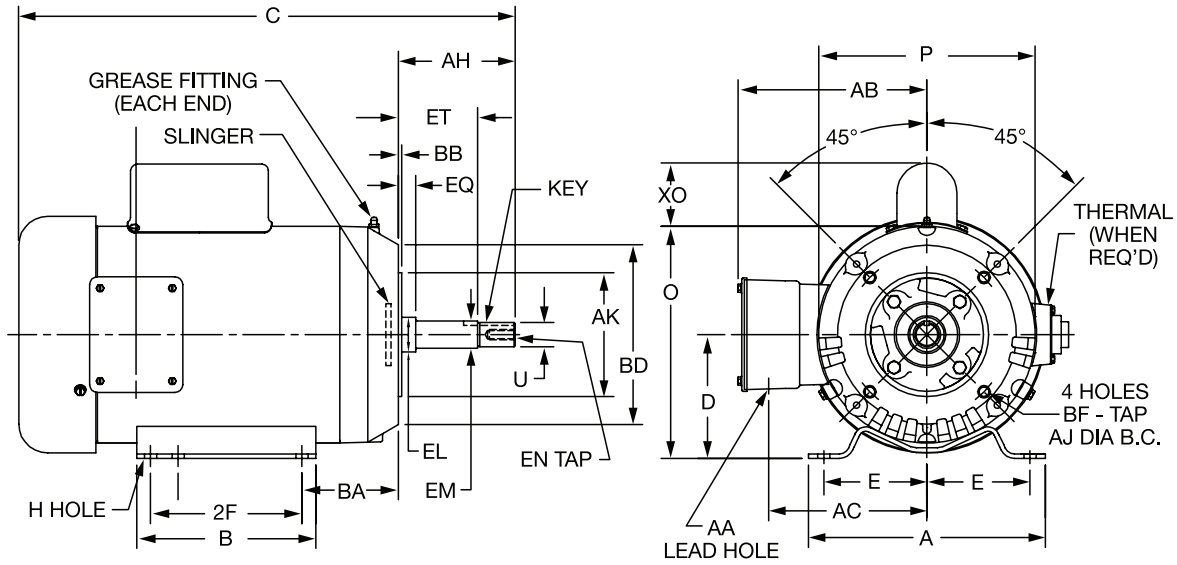
NEMA Frame	A	B	D	E	2F	H	KEY	O	P	U	AA	AB	AH	AJ	BF TAP	AK	BA	BB	BD	XO
143JM	6.50	5.94	3.50	2.75	4.00	0.34	0.19	6.81	6.63	0.875	0.75	5.73	4.25	5.88	3/8-16	4.50	2.88	0.12	6.50	—
145JM	6.50	5.94	3.50	2.75	5.00	0.34	0.19	6.81	6.63	0.875	0.75	5.73	4.25	5.88	3/8-16	4.50	2.88	0.12	6.50	—
182JM	8.63	6.50	4.50	3.75	4.50	0.41	0.19	8.44	7.88	0.875	0.75	6.86	4.25	5.88	1/2-13	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	1/2-13	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	0.75	7.45	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	0.75	7.45	4.25	7.25	1/2-13	8.50	4.50	0.25	9.06	2.40

NEMA Frame	EL	EM	EN	EQ	ES	ET
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

NOTE: Dimension for reference only. Contact Baldor or www.baldor.com for a detailed dimension drawing for your specific catalog number.

Dimensions

Close-Coupled Pump Motor Single Phase – TEFC NEMA 182JM - 184JM



NEMA Frame	A	B	D	E	2F	H (Dia.)	Key	O	P	U	AA (Dia.)	AB	AC	AJ (Dia. B.C.)	AK	BA	BB	BD	BF Tap	X0
182JM	8.63	6.50	4.50	3.75	4.50	0.44	0.19 X 1.38	8.44	7.88	0.875	1.09	6.87	5.76	5.88	4.50	3.50	0.12	6.54	.38-16 X .63	2.30 (L)
184JM					5.50															2.69 (L/LC)

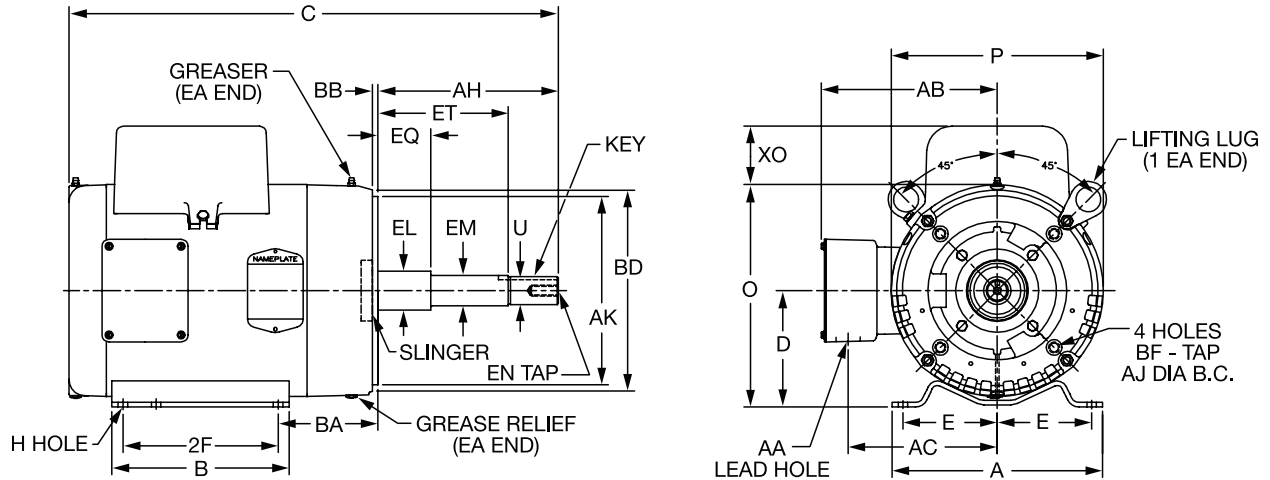
Shaft Dimensions

NEMA Frame	AH	EL	EM	EN	EQ	ES	ET
182JM	4.28	1.25	1.00	.38-16 X .88	0.64	1.39	2.89
184JM							

NOTE: Dimension for reference only. Contact Baldor or www.baldor.com for a detailed dimension drawing for your specific catalog number.

Dimensions

Close-Coupled Pump Motor Single Phase – ODP NEMA 182JM - 184JM NEMA 182JP - 184JP



Mechanical Seal, Type JM

NEMA Frame	A	B	D	E	2F	H (Dia.)	Key	O	P	U	AA (Dia.)	AB	AC	AJ (Dia. B.C.)	AK	BA	BB	BD	BF Tap	XO
182JM 184JM	8.63	6.50	4.50	3.75	4.50 5.50	0.41	0.19 x 1.38	8.44	7.88	0.875	1.09	6.75	5.70	5.88	4.50	3.50	0.12	6.61	.38 - 16	2.24 (L) 2.63 (LC)
213JM 215JM	9.50	8.00	5.25	4.25	5.50 7.00	0.41	0.19 x 1.38	10.03	9.56	0.875	1.38	7.93	6.73	7.25	8.50	4.50	0.25	9.06	.50 - 13	2.63(L/LC)

Note: L = Single Capacitor, LC = Dual Capacitor

Catalog number JML1512T has the following dimensions: AA = 1.06, AB = 8.64, AC = 7.28, XO = 2.39

Shaft Dimensions

NEMA Frame	AH	EL	EM	EN	EQ	ES	ET
182JM 184JM	4.28	1.25	1.00	.38 - 16 X .88	0.64	1.39	2.89
213JM 215JM	4.28	1.25	1.00	.38 - 16 x .88	0.64	1.39	2.89

Packed Pump, Type JP

NEMA Frame	A	B	D	E	2F	H (Dia.)	Key	O	P	U	AA (Dia.)	AB	AC	AJ (Dia. B.C.)	AK	BA	BB	BD	BF Tap	XO
182JP 184JP	8.63	6.50	4.50	3.75	4.50 5.50	0.41	0.19 x 1.38	8.44	7.88	0.875	1.09	6.75	5.70	5.88	4.50	3.50	0.13	6.61	.38 - 16	2.18 (L) 2.63 (LC)
213JP 215JP	9.50	8.00	5.25	4.25	5.50 7.00	0.41	0.25 x 2.50	10.03	9.56	1.25	1.09	7.93	6.73	7.25	8.50	4.50	0.25	9.06	.50 - 13	2.63(L/LC)

Note: L = Single Capacitor, LC = Dual Capacitor

Catalog number JP L1512T has the following dimensions: AA = 1.06, AB = 8.64, AC = 7.28, XO = 2.39

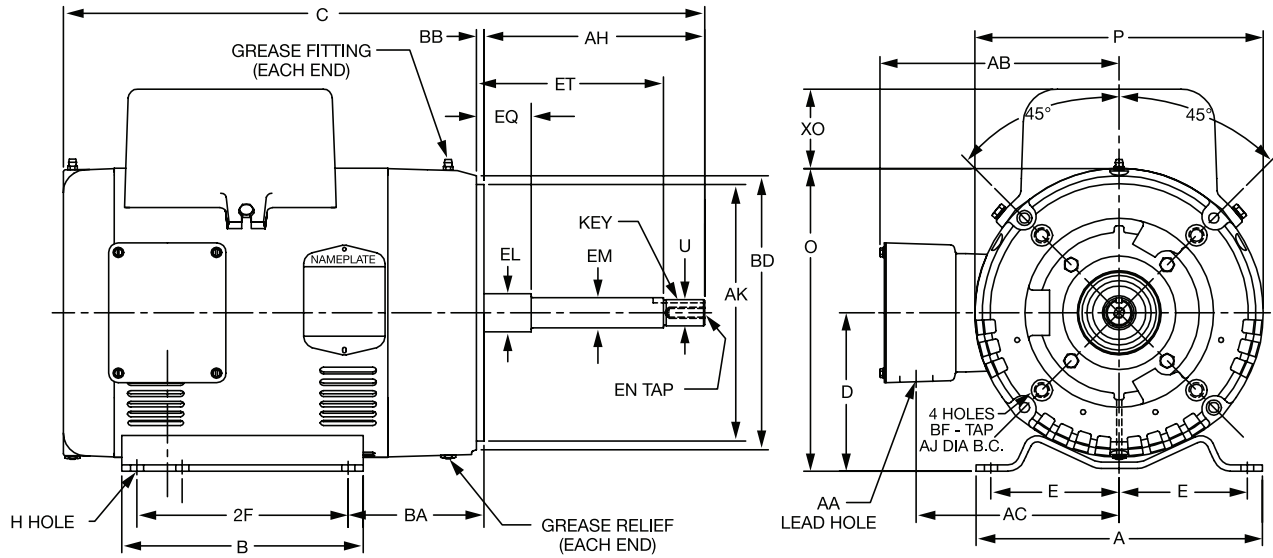
Shaft Dimensions

NEMA Frame	AH	EL	EM	EN	EQ	ES	ET
182JP 184JP	7.32	1.25	1.00	.38 - 16 X .88	1.57	1.38	5.94
213JP 215JP	8.16	1.75	1.38	.50 - 13 X 1.12	2.39	2.27	5.89

NOTE: Dimension for reference only. Contact Baldor or www.baldor.com for a detailed dimension drawing for your specific catalog number.

Dimensions

Close-Coupled Pump Motor Single Phase - ODP West Coast Fit NEMA 182TCZ - 215TCZ



NEMA Frame	A	B	D	E	2F	H (Dia.)	Key	O	P	U	AA (Dia.)	AB	AC	AJ (Dia. B.C.)	AK	BA	BB	BD	BF Tap	XO
182TCZ					4.50	0.41	0.19 x 1.38	9.00	6.75	0.875	1.09	6.75	5.70	7.25	8.50	3.63	0.25	9.00	.50 - 13	1.62 (L) 2.07 (LC)
184TCZ	8.63	6.50	4.50	3.75	5.50															
213TCZ	9.50	8.00	5.25	4.25	5.50	0.41	0.19 x 1.62	10.03	9.56	0.875	1.09	7.93	6.73	7.25	8.50	4.50	0.25	9.06	.50 - 13	2.63(L/LC)
215TCZ					7.00															

Note: L = Single Capacitor, LC = Dual Capacitor

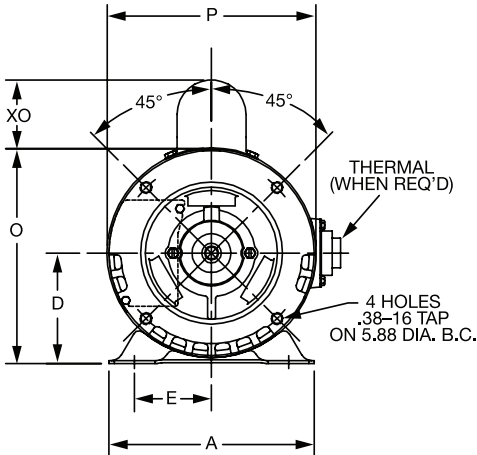
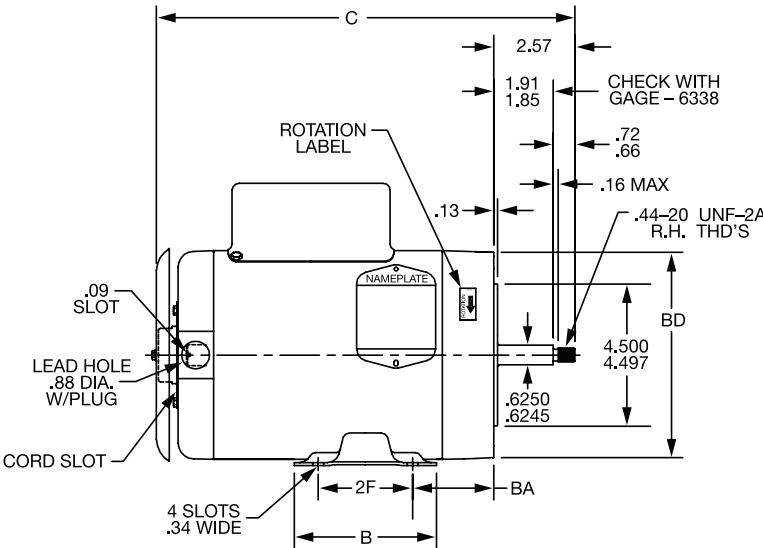
Shaft Dimensions

NEMA Frame	AH	EL	EM	EN	EQ	ES	ET
182TCZ	7.32	1.25	1.00	.38 - 16 x .88	1.57	1.38	5.94
184TCZ							
213TCZ	7.32	1.25	1.00	.38 - 16 x 1.12	1.57	1.38	5.94
215TCZ							

NOTE: Dimension for reference only. Contact Baldor or www.baldor.com for a detailed dimension drawing for your specific catalog number.

Dimensions

Jet Pump Motors Single Phase - ODP with Drip Cover NEMA 56J & 56C



56J, Foot Mounted

NEMA Frame	A	B	D	E	2F	BA	O	P	BD	XO
CJL1205A	6.56	4.25	3.50	2.44	3.00	2.57	6.44	5.68	5.87	1.41
CJL1301A	6.50	4.00	3.50	2.44	3.00	2.57	6.34	5.68	5.87	1.50
CJL1303A	6.50	4.00	3.50	2.44	3.00	2.57	6.34	5.68	5.87	1.50
CJL1304A	6.53	4.00	3.50	2.44	3.00	2.57	6.35	5.68	5.87	1.50
CJL1306A	6.50	4.00	3.50	2.44	3.00	2.57	6.34	5.68	5.87	1.50
CJL1307A	6.50	4.50	3.50	2.44	3.00	2.57	6.81	6.62	6.50	2.18
CJL1309A	6.50	4.00	3.50	2.44	3.00	2.57	6.34	5.68	5.87	2.18
CJL1313A	6.56	4.25	3.50	2.44	3.00	2.57	6.34	5.68	5.87	2.25
CJL1317A	6.50	4.32	3.50	2.44	3.00	2.57	6.81	6.62	6.50	2.18

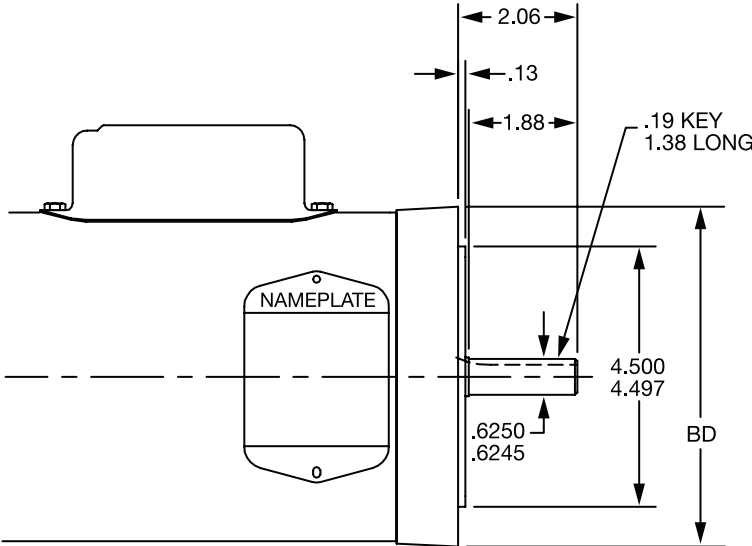
56J, Footless

NEMA Frame	P	BD	XO
JL1205A	5.68	5.87	1.51
JL1301A	5.68	5.87	1.51
JL1303A	5.68	5.87	1.51
JL1304A	5.68	5.87	1.51
JL1306A	5.68	5.87	1.51
JL1307A	5.68	5.87	2.18
JL1309A	5.68	5.87	2.18
JL1313A	5.68	5.87	2.25
JL1317A	6.62	6.50	2.18

56C, Footless

NEMA Frame	P	BD	XO
VL1205A	5.68	5.87	1.51
VL1301A	5.68	5.87	1.51
VL1303A	5.68	5.87	1.51
VL1304A	5.68	5.87	1.51
VL1306A	5.68	5.87	1.51
VL1307A	6.62	6.50	2.18
VL1309A	5.68	5.87	2.18
VL1318A	6.62	6.50	2.18
VL1313A	5.68	5.81	2.25
VL1317A	6.62	6.50	2.18
VL1323A	6.62	6.50	2.19

NEMA 56C Shaft Dimensions

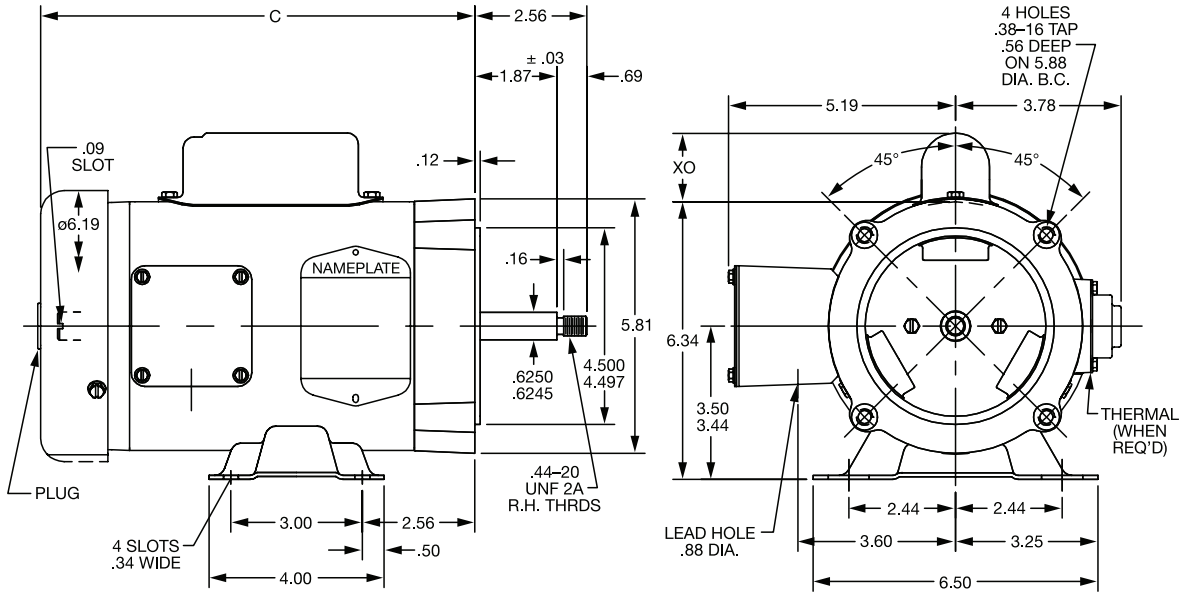


NOTE: Dimension for reference only. Contact Baldor or www.baldor.com for a detailed dimension drawing for your specific catalog number.

Dimensions

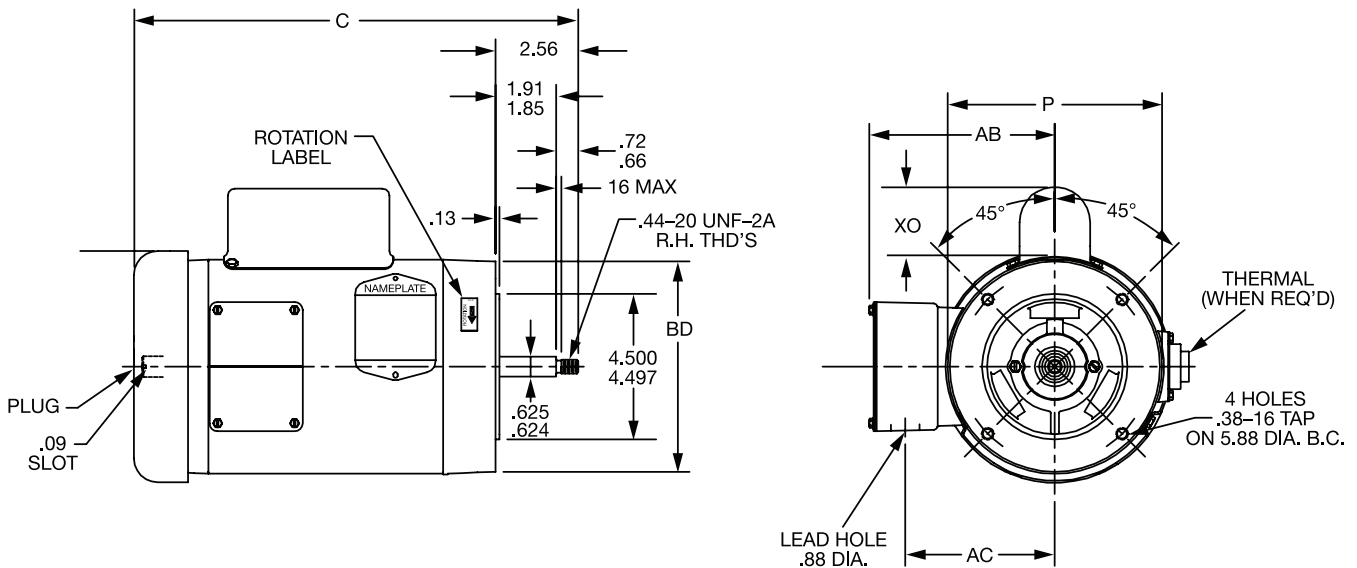
Jet Pump Motor Single Phase – TEFC NEMA 56J

56C, Foot Mounted



Note: X0 = 1.56 on type 34L motors with a single capacitor. X0 = 2.31 on type 34LC with dual capacitors.

56C, Footless



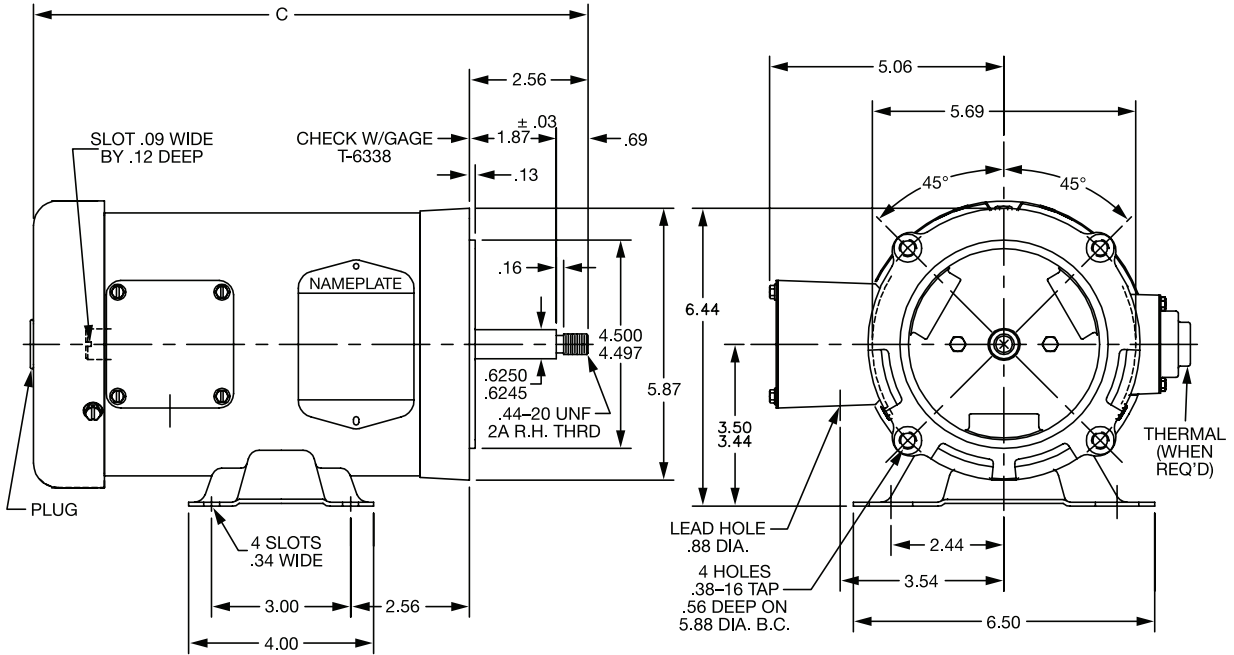
NEMA Frame	P	AB	AC	BD	X0
56J					1.56 (L)
Type 34	5.68	5.19	3.60	5.81	2.34 (LC)
56J					
Type 35	5.68	5.19	3.60	5.81	2.24 (L / LC)

Note: L = Single Capacitor, LC = Dual Capacitor

NOTE: Dimension for reference only. Contact Baldor or www.baldor.com for a detailed dimension drawing for your specific catalog number.

Dimensions

Jet Pump Motor Three Phase – ODP with Drip Cover NEMA 56J



Stainless Steel Threaded Shaft, Foot Mounted

NEMA Frame	A	B	E	O	P	AB	AC	BD
56J								
Type 34	6.50	4.00	2.44	6.44	5.69	5.06	3.54	5.87
56J								
Type 35	6.62	4.32	2.49	6.81	6.62	5.62	4.56	6.50

Stainless Steel Threaded Shaft, Footless

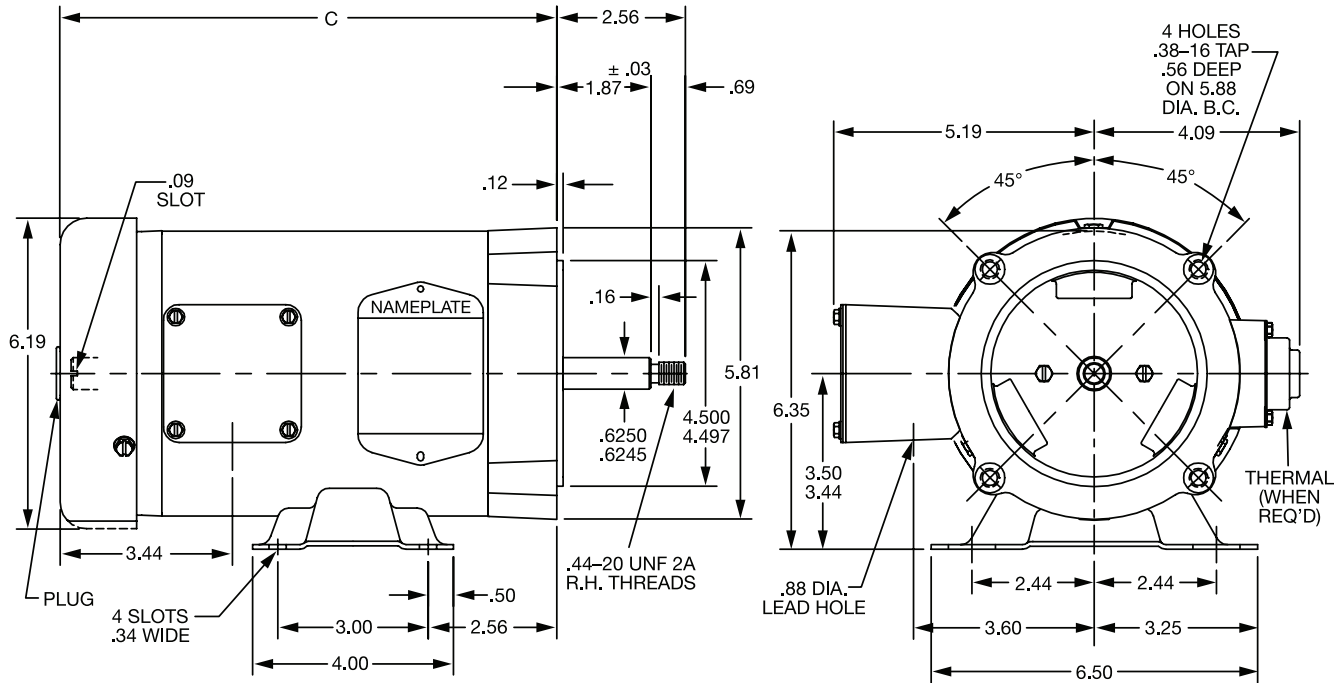
NEMA Frame	A	B	E	O	P	AB	AC	BD
56J								
Type 34	-	-	-	-	5.69	5.06	3.54	5.87
56J								
Type 35	-	-	-	-	6.62	5.62	4.56	6.50

NOTE: Dimension for reference only. Contact Baldor or www.baldor.com for a detailed dimension drawing for your specific catalog number.

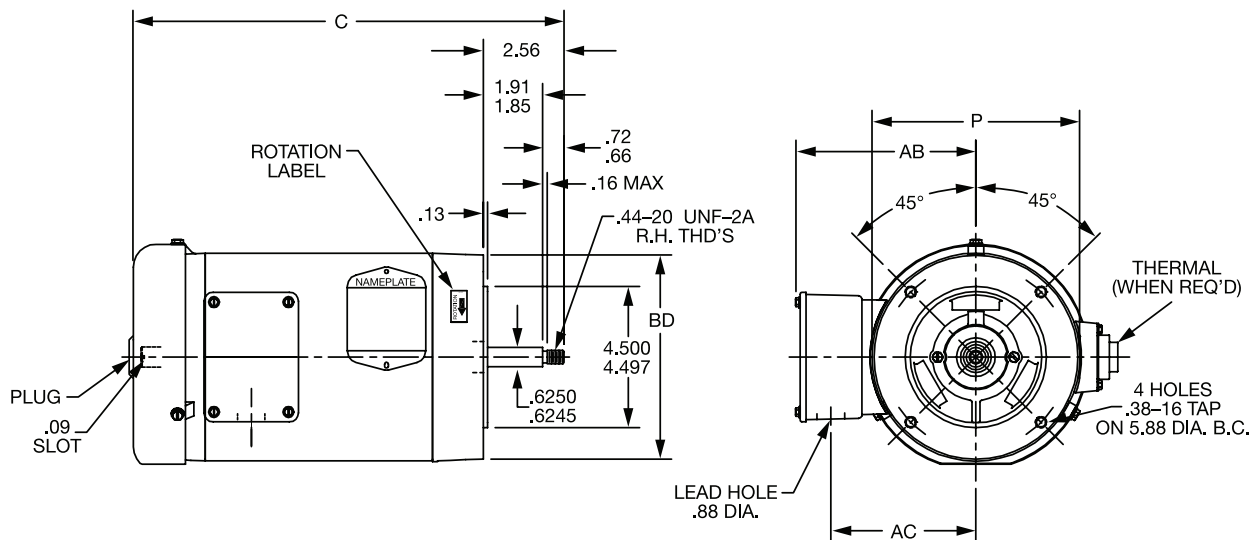
Dimensions

Jet Pump Motor Three Phase – TEFC NEMA 56J

56J, Foot Mounted



56J, Footless



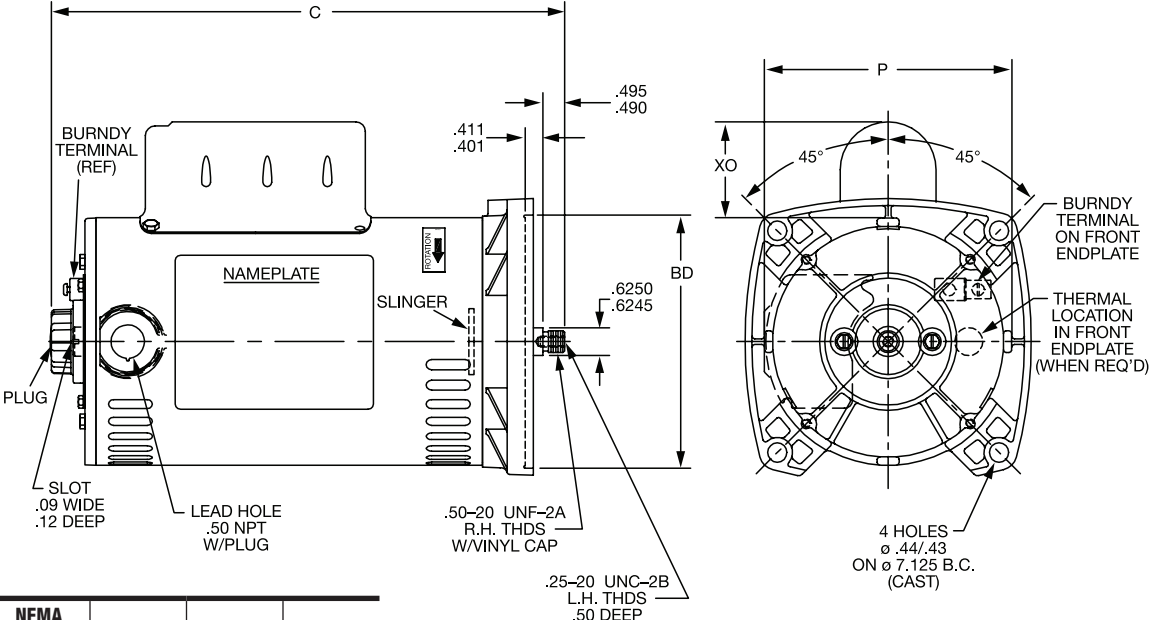
NEMA Frame	P	AB	AC	BD
56J Type 34	5.69	5.19	3.60	5.81
56J Type 35	6.62	5.74	4.63	6.50

NOTE: Dimension for reference only. Contact Baldor or www.baldor.com for a detailed dimension drawing for your specific catalog number.

Dimensions

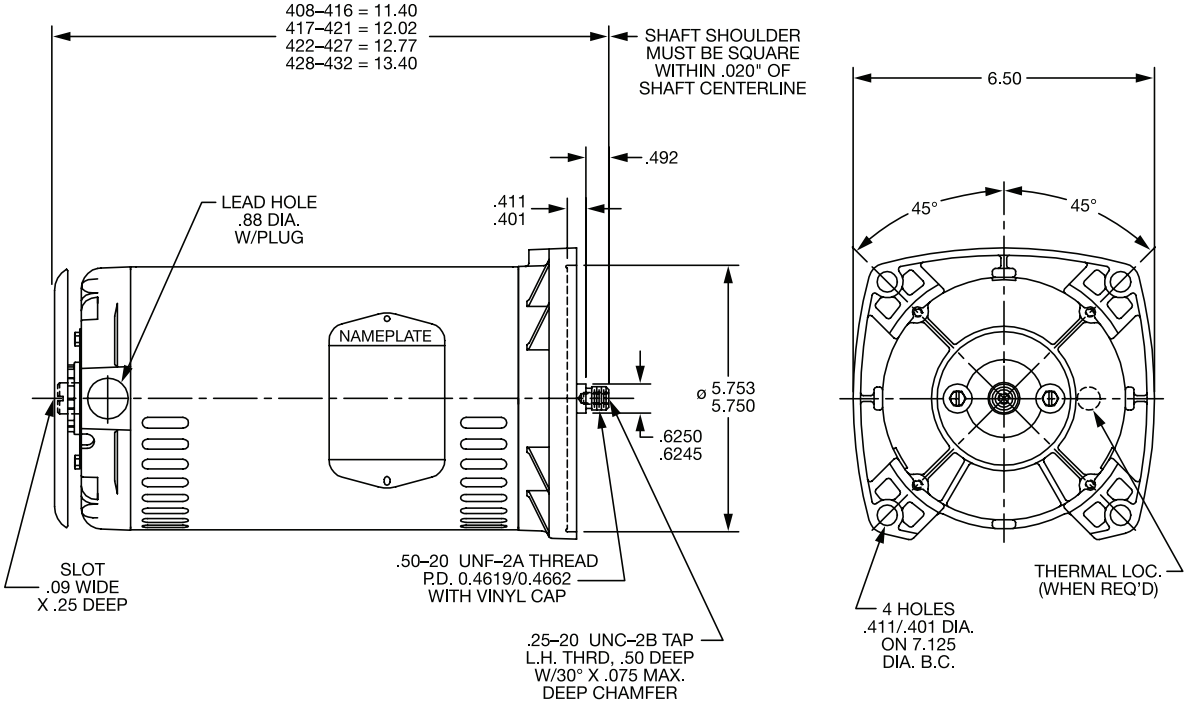
Square Flange Pump Motor Open Drip Proof NEMA 56Y & 56YZ

Single Phase



Catalog Number	NEMA Frame	P	BD	X0
JSL325A	56Y	6.50	5.75	1.51
JSL425A	56Y	5.63	5.75	2.18
JSL525A	56Y	6.50	5.75	2.18
JSL625A	56YZ	6.62	6.29	2.18
JSL725A	56YZ	6.62	6.29	2.18

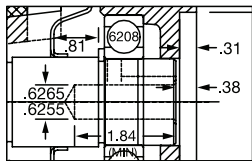
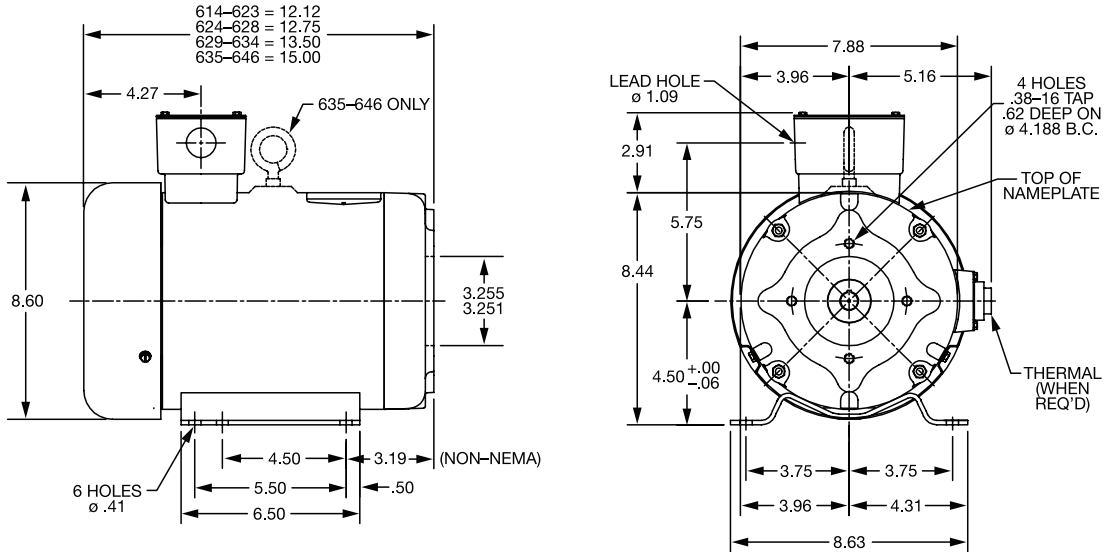
Three Phase - NEMA Frame 56YZ



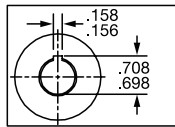
NOTE: Dimension for reference only. Contact Baldor or www.baldor.com for a detailed dimension drawing for your specific catalog number.

Dimensions

Hydraulic Pump Mount Motor Three Phase - TEFC NEMA 184TYZ

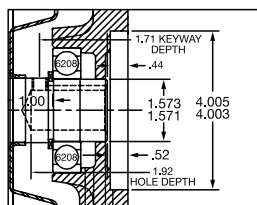
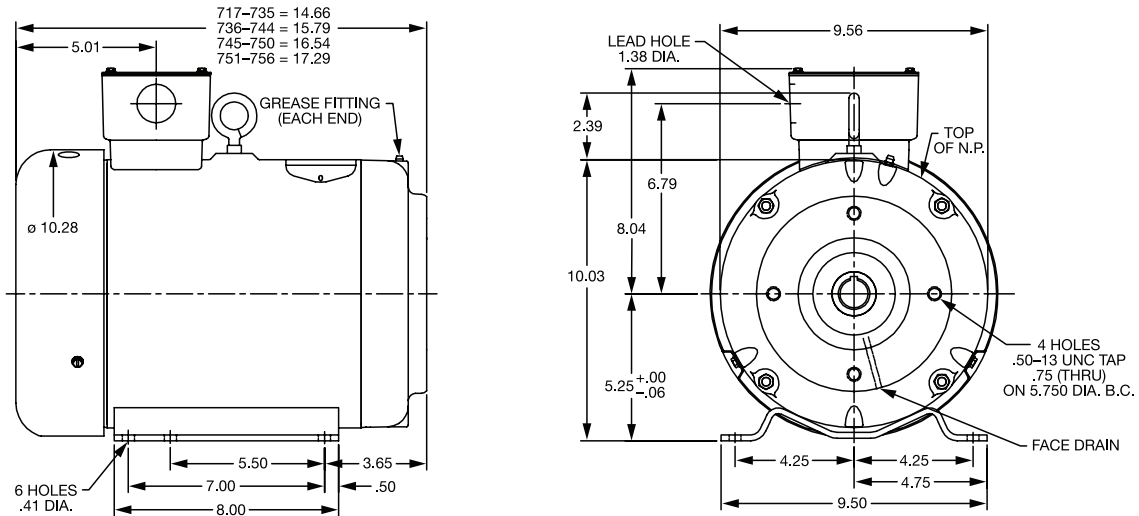


PULLEY END DETAIL

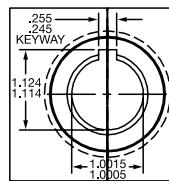


KEYWAY DETAIL

Hydraulic Pump Mount Motor Three Phase - TEFC NEMA 215TYZ



PULLEY END DETAIL

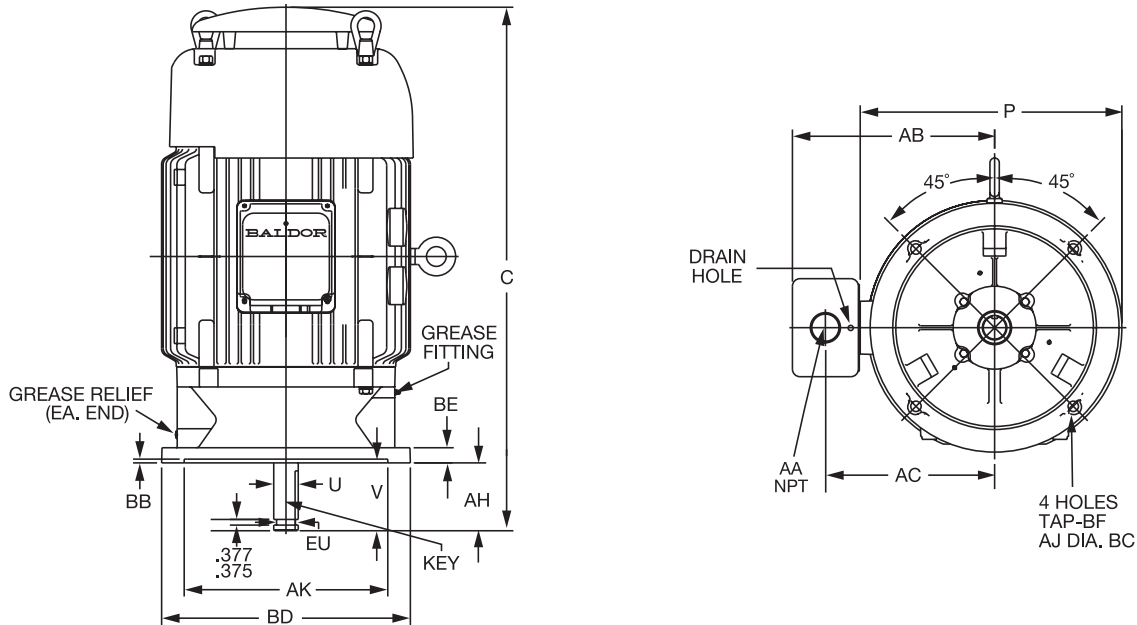


KEYWAY DETAIL

NOTE: Dimension for reference only. Contact Baldor or www.baldor.com for a detailed dimension drawing for your specific catalog number.

Dimensions

P-Base Vertical Solid Shaft Pump Motors Cast Iron Construction – TEFC NEMA 182HP - 365HP (Normal Thrust) NEMA 182LP - 324LP (Medium Thrust) NEMA 326VP - 365VP (High Thrust)



NEMA Frame	Key	P	U	V Min	AA NPT	AB	AC	AH	AJ	AK	BB	BD	BE	Tap BF	EU
Normal Thrust															
182HP 184HP	0.25	13.6	1.125	3.00	1.00	7.85	8.29	2.75	9.12	8.25	0.25	9.88	0.69	0.44	0.875
213HP 215HP	0.25	12.13	1.125	3.00	1.50	8.68	7.11	2.75	9.12	8.25	0.25	9.88	0.69	0.44	0.875
254HP 256HP	0.25	12.94	1.125	3.00	1.50	10.13	8.29	2.75	9.12	8.25	0.25	9.87	0.69	0.44	0.875
284HP 286HP	0.25	15.56	1.125	3.00	2.00	12.57	10.31	2.75	9.12	8.25	0.25	9.87	0.69	0.44	0.875
324HP 326HP	0.38	17.35	1.625	4.75	2.00	13.47	11.16	4.5	14.75	13.5	0.25	16.5	1	0.44	1.25
364HP 365HP	0.375	20.25	1.625	4.50	3.00	18.00	13.81	4.5	14.75	13.5	0.25	16.5	0.88	0.69	1.25

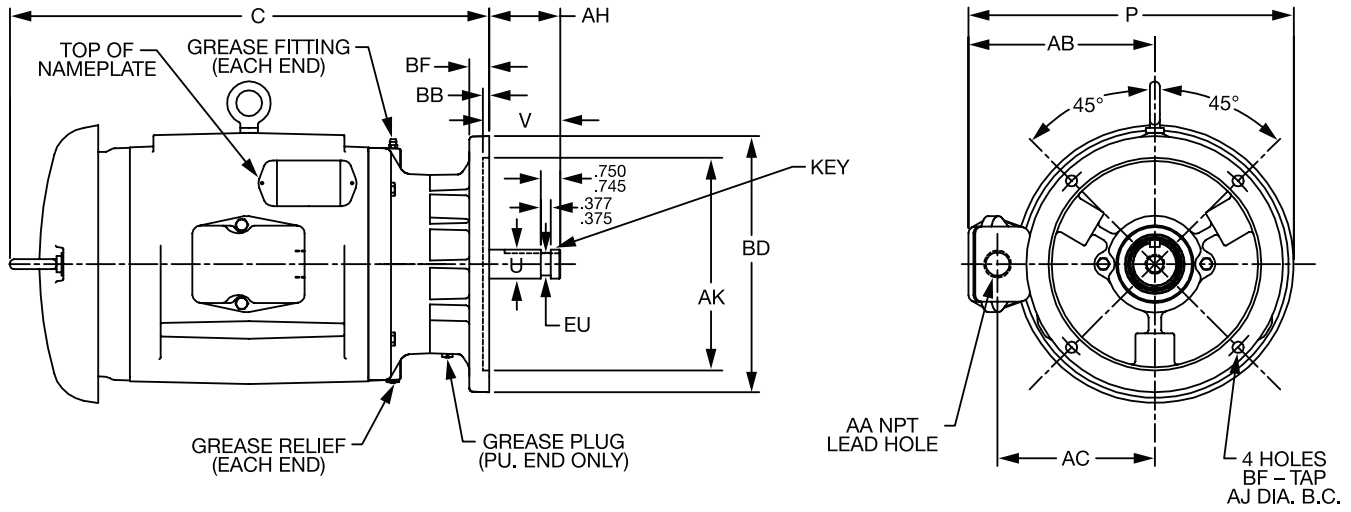
NEMA Frame	Key	P	R*	S*	U	V Min	AA	AB	AC	AH	AJ	AK	BB	BD	BE	Tap BF	EU
Medium Thrust																	
182LP 184LP	0.25	11.50	0.984	0.25	1.125	3.00	1.00 NPT	7.69	6.35	2.75	9.12	8.25	0.25	9.88	0.68	0.44	0.875
213LP 215LP	0.38	12.13	1.406	0.375	1.625	3.00	1.50 NPT	8.68	7.11	2.75	9.12	8.25	0.25	9.88	0.69	0.44	1.25
254LP 256LP	0.38	12.94	1.406	0.375	1.625	3.00	1.50 NPT	9.50	8.07	2.75	9.12	8.25	0.25	9.87	0.69	0.44	1.25
284LP 286LP	0.50	15.32	1.843	0.50	2.125	4.00	2.00 NPT	12.34	10.16	4.50	9.12	8.25	0.25	9.87	0.69	0.44	1.75
324LP 326LP	0.50	17.35	1.843	0.50	2.125	4.00	2.00 NPT	13.41	11.22	4.50	14.75	13.50	0.25	16.50	1.00	0.69	1.75

High Thrust																	
324VP 326VP	0.375	17.35	1.406	0.375	1.625	4.75	2.00 NPT	13.41	11.22	4.50	14.75	13.50	0.25	16.49	1.00	0.69	1.25
364VP 365VP	0.38	19.25	1.406	0.375	1.625	4.75	2.00 NPT	14.37	12.13	4.50	14.75	13.50	0.25	16.49	1.00	0.69	1.25

NOTES: * Please refer to Keyway Detail at the end of the AC section. Drawings shown are for reference only.
Dimension for reference only. Contact Baldor or www.baldor.com for a detailed dimension drawing for your specific catalog number.

Dimensions

P-Base Vertical Solid Shaft Pump Motors Cast Iron Construction – ODP NEMA 182HP - 326 HP (Normal Thrust)

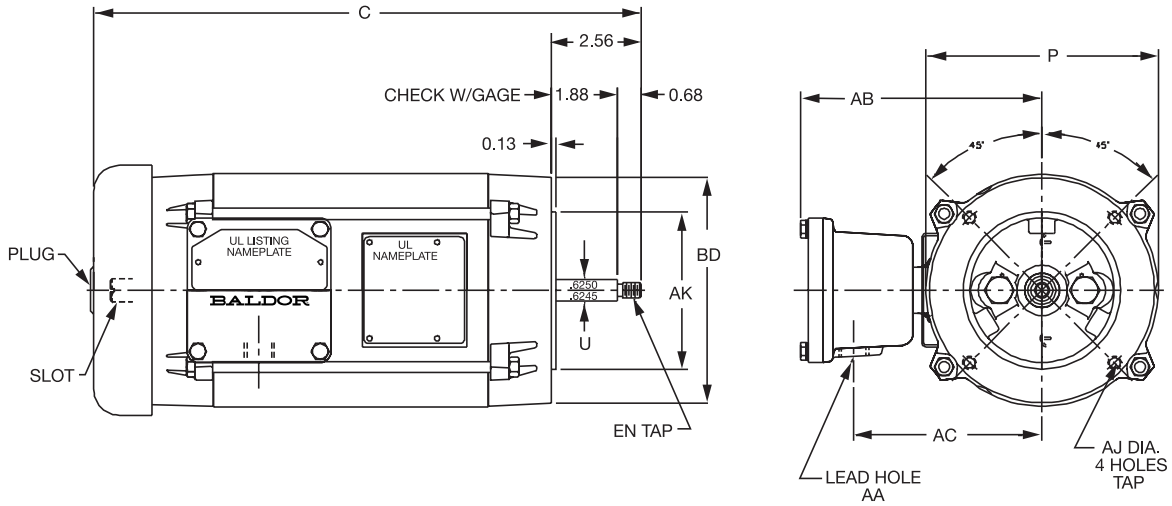


NEMA Frame	Key	P	U	V Min	AA NPT	AB	AC	AH	AJ	AK	BB	BD	BE	Tap BF	EU
182HP 184HP	.25 x 1.75	12.60	1.125	3.00	0.75	7.22	6.09	2.75	9.13	8.25	0.25	9.93	0.78	0.44	0.875
213HP 215HP	.25 x 1.88	13.39	1.125	3.00	1.50	9.32	7.51	2.75	9.13	8.25	0.25	9.87	0.78	0.44	0.875
254HP 256HP	.25 x 2.00	13.91	1.125	3.00	1.50	10.02	8.22	2.75	9.13	8.25	0.25	9.89	0.69	0.44	0.875
284HP 286HP	.25 X 1.12	15.35	1.125	3.00	2.00	11.82	9.38	2.75	9.13	8.25	0.25	9.89	0.69	0.44	0.875
324HP 326HP	.38 X 3.75	18.14	1.625	4.79	2.00	13.64	11.16	4.50	14.75	13.50	0.29	16.24	1.00	0.69	1.25

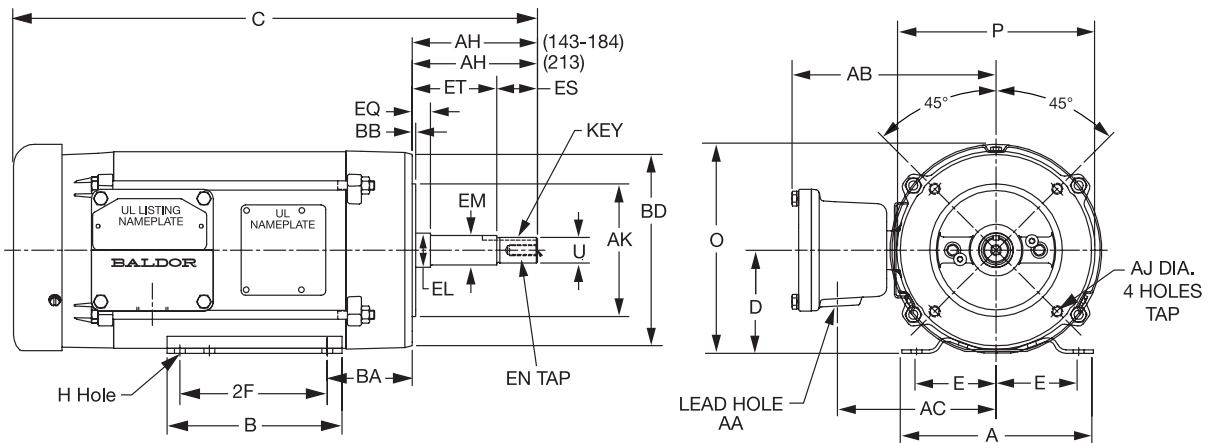
NOTE: (Catalog # VHM2534T has the following dimensions: P = 13.91, AB = 10.02, AC = 8.28
Dimension for reference only. Contact Baldor or www.baldor.com for a detailed dimension drawing for your specific catalog number.

Dimensions

Jet Pump Explosion-Proof Motors 56J Frame



Close-Coupled Pump Explosion-Proof Motors 143JM-215JM Frame



Rolled Steel Construction

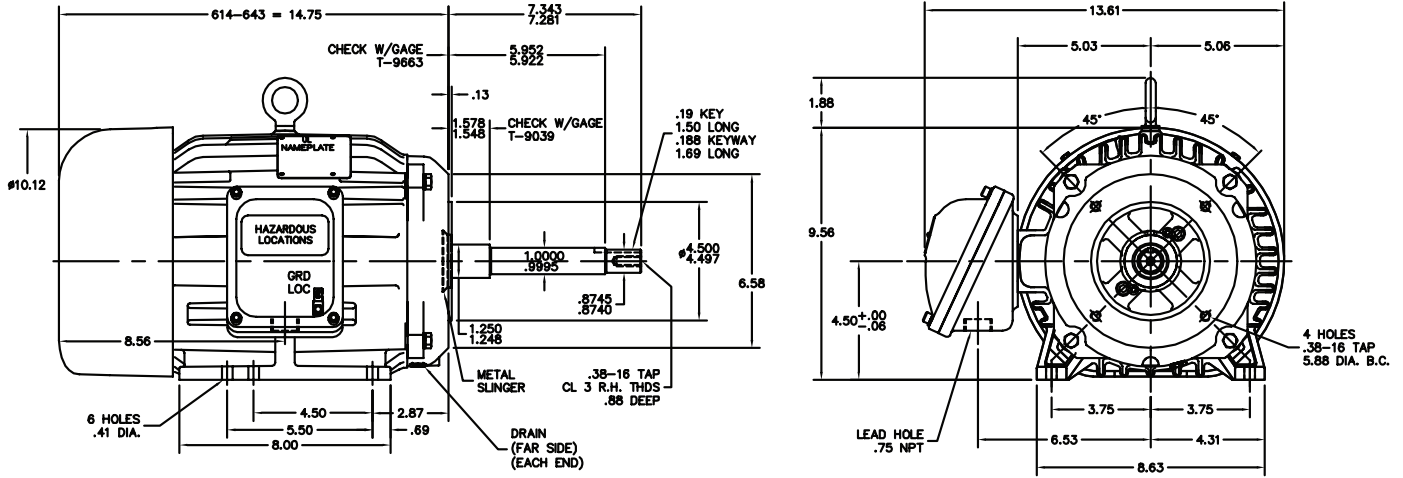
NEMA Frame	A	B	D	E	2F	H	O	P	U	AA	AB	AC	AJ	AK	BA	BB	BD	Tap	
(400Type) 56J	-	-	-	-	-	-	-	(5.61)	6.68	0.62	0.50	(6.53)	(5.00)	5.88	4.50	-	0.12	(5.91)	3/8-16
143JM					4.00														
145JM	6.50	5.94	3.50	2.75	5.00	0.34	7.81	6.69	0.87	0.75	6.92	5.38	5.88	4.50	2.88	0.13	6.49	3/8-16	
182JM					4.50														
184JM	8.63	6.50	4.50	3.75	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					5.50														
215JM	9.50	8.00	5.25	4.25	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

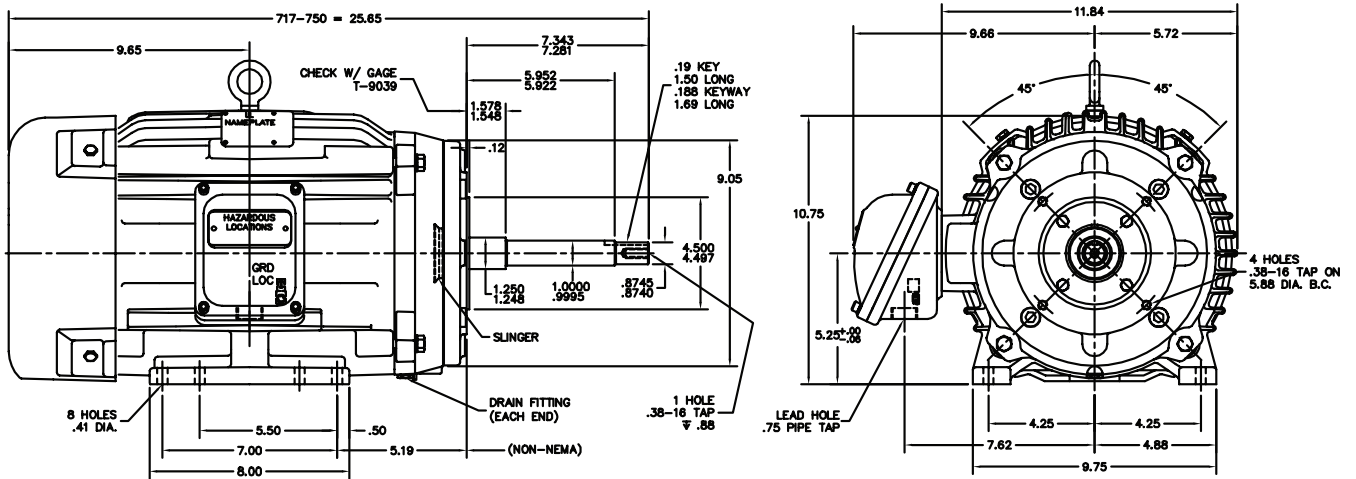
NOTE: Dimension for reference only. Contact Baldor or www.baldor.com for a detailed dimension drawing for your specific catalog number.

Dimensions

Close Coupled Pump – Drill Rig Duty 182JP Frame



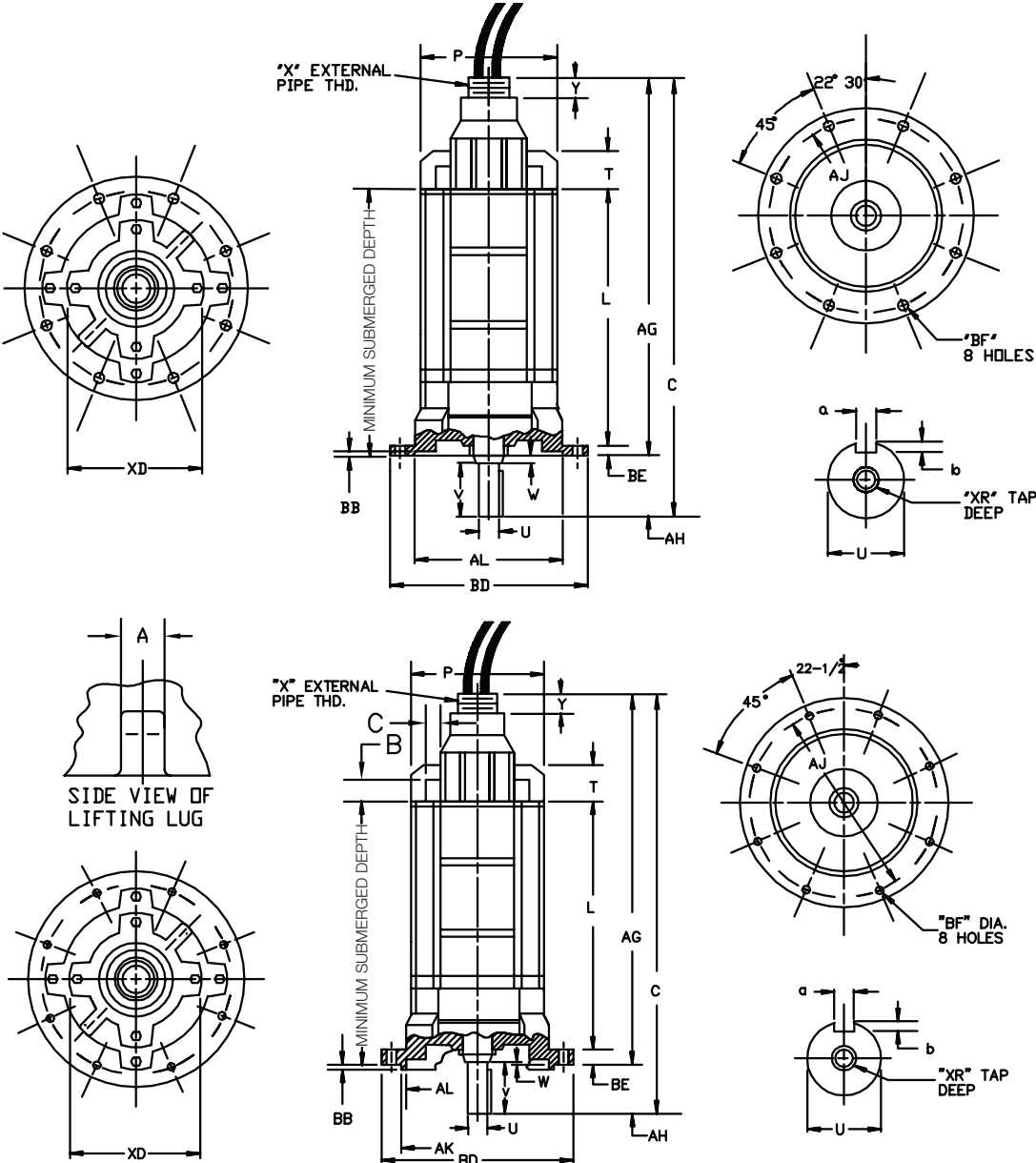
Close Coupled Pump – Drill Rig Duty – One Size Smaller Flange & Shaft 184JP Mounting



NOTE: Dimension for reference only. Contact Baldor or www.baldor.com for a detailed dimension drawing for your specific catalog number.

Dimensions

Submersible 140TY-320TY Frames



Dimensions are in inches

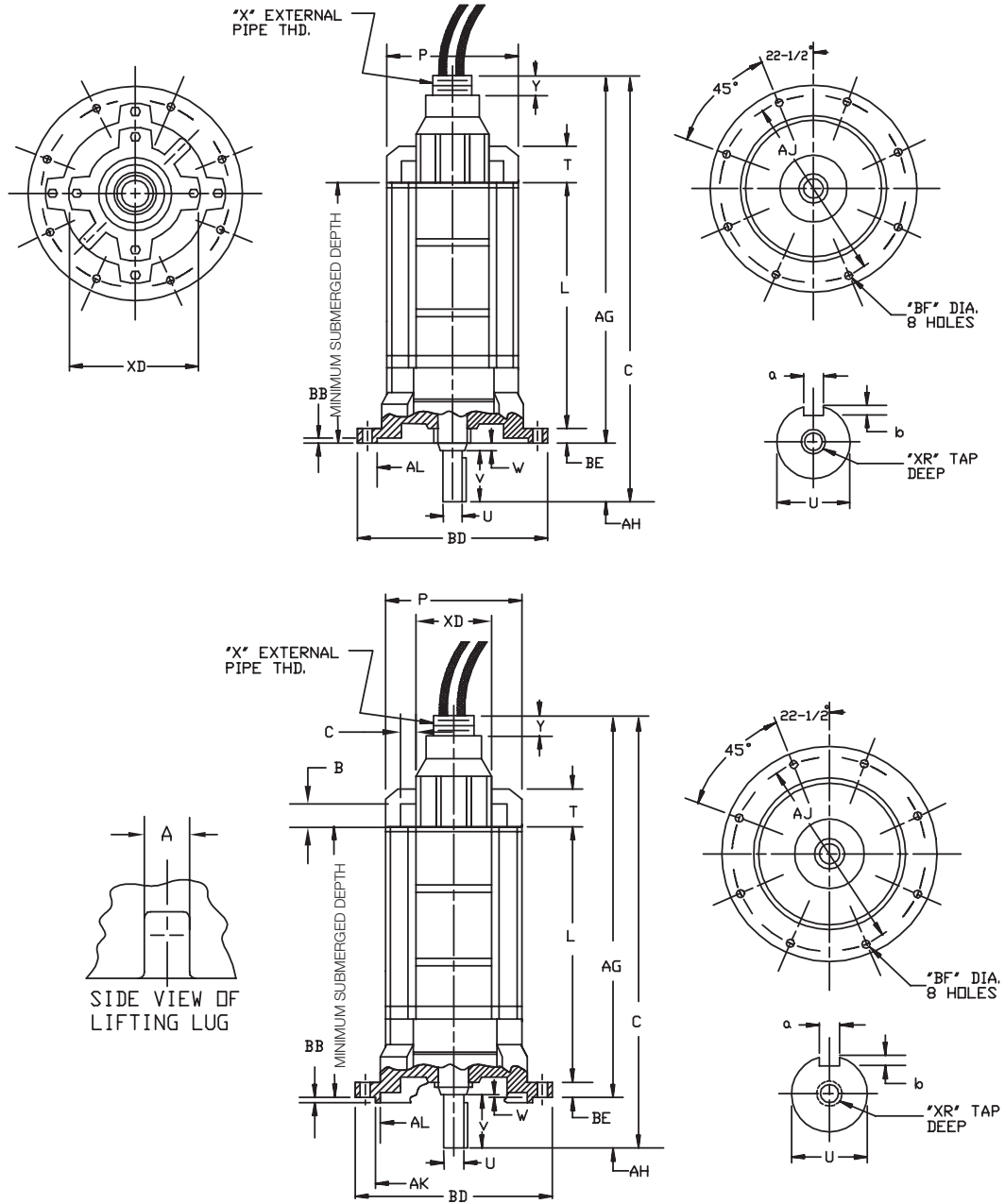
Frame	C	L	P	T	U	V	W	AG	AH	AJ	AK	AL
140TY	25.44	15.38	8.00	2.25	.8750	1.25	.31	23.88	1.59	10.00		9.125
180TY	26.66	16.50	9.62	2.25	1.2500	2.00	.28	24.38	2.28	11.50		10.625
210TY	31.69	21.12	11.50	2.25	1.4380	2.00	.44	30.12	1.56	14.12	13.125	12.00
250TY	38.53	24.12	12.75	3.50	1.750	3.31	.28	35.50	3.03	16.00	15.000	14.00
320TY	43.12	24.69	15.75	4.25	2.500	3.19	2.12	37.81	5.37	17.25	16.000	15.25

Frame	BD	BE	BF	XR	X	Lead Connection		BB	B.E. Keyway			Weight
						Y	XD		A	B	Length	
140TY	11.062	.75	.44	3/8-16	2-1/2-8	1.25	5.50	.12	.187	.09	1.25	160
180TY	12.375	.75	.56	1/2-13	2-1/2-8	1.25	6.75	.12	.250	.12	1.12	200
210TY	15.250	.75	.56	5/8-11	2-1/2-8	1.25	7.75	.25	.375	.19	1.12	315
250TY	17.000	.88	.69	5/8-11	2-1/2-8	1.25	7.75	.25	.375	.19	2.25	750
320TY	18.750	.88	.69	3/4-10	3-8	1.25	10.88	.25	.500	.25	3.00	1150

NOTE: Dimension for reference only. Contact Baldor or www.baldor.com for a detailed dimension drawing for your specific catalog number.

Dimensions

Submersible 180TY-320TY Frames One Size Smaller Flange & Shaft



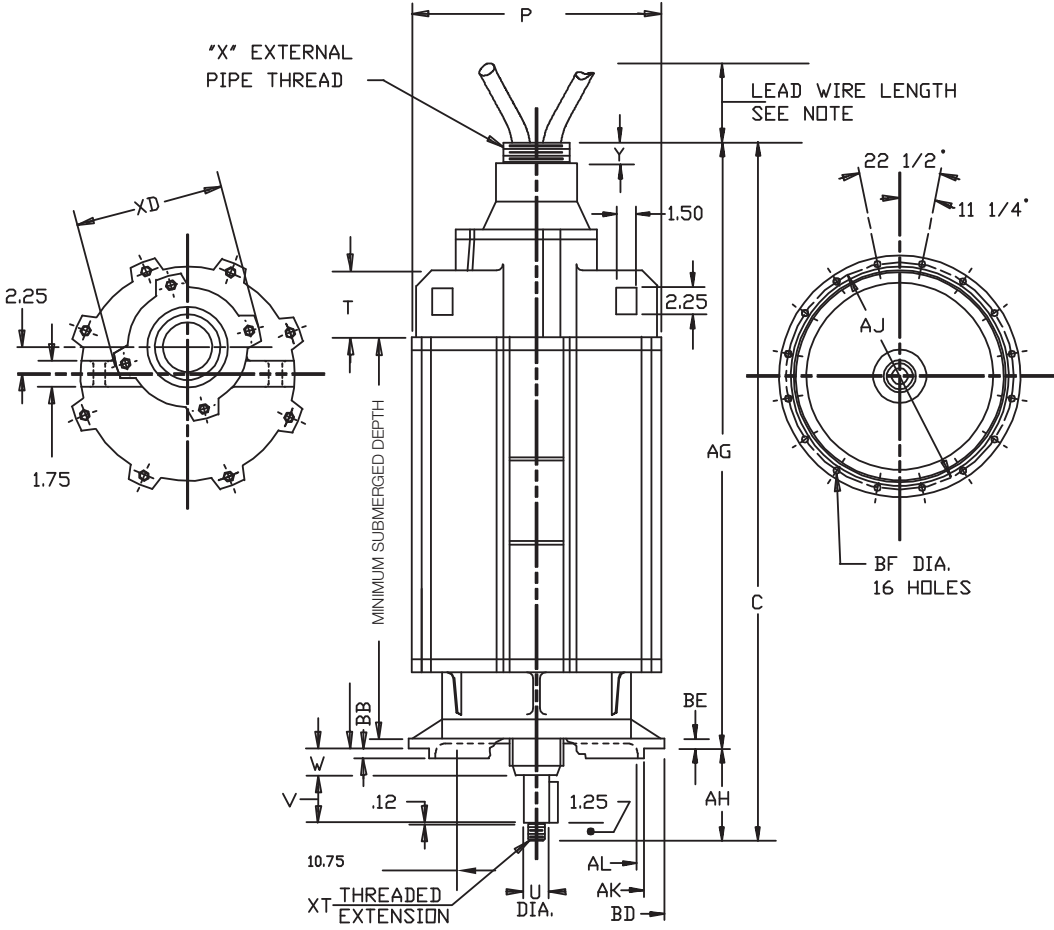
Dimensions are in inches

Frame	C	L	P	T	U	V	W	AG	AH	AJ	AK	AL
180TY	25.94	16.50	9.62	2.25	.8750	1.25	.31	24.38	1.56	10.00		91.25
210TY	32.41	24.12	11.20	2.25	1.2500	2.00	.25	30.12	2.28	11.50		10.625
250TY	37.06	24.12	12.75	3.50	1.438	2.00	.25	35.50	1.56	14.12	13.125	12.00
320TY	42.50	26.31	16.00	4.25	1.750	3.31	.25	39.25	3.03	16.00	15.000	14.25
Frame	BD	BE	BF	XR	X	Lead Connection		BB	B.E. Keyway			Weight
						Y	XD		A	B	Length	
180TY	11.062	.75	.44	3/18-16	2-1/2-8	1.25	6.75	.12	.187	.09	1.12	200
210TY	12.375	.75	.56	1/2-13	2-1/2-8	1.25	7.75	.12	.250	.12	1.12	315
250TY	15.25	1.00	.56	5/8-11	2-1/2-8	1.25	7.75	.25	.375	.19	1.12	750
320TY	17.00	.88	.69	5/8-11	3'-8	1.25	10.88	.25	.375	.19	3.00	1150

NOTE: Dimension for reference only. Contact Baldor or www.baldor.com for a detailed dimension drawing for your specific catalog number.

Dimensions

Submersible 360TY-L360TY Frames



Dimensions are in inches

Frame	C	L	P	T	U	V	W	AG	AH	AJ	AK	AL
180TY	47.1	31.25	18.38	4.25	2.4997	3.19	2.12	43.25	6.56	18.75	17.500	15.25
210TY	49.1	33.25	18.38	4.25	2.4997	3.19	2.12	45.25	6.56	18.75	17.500	15.25
Frame	BB	BD	BE	BF	XT	Lead Connection			B.E. Keyway			
						X	Y	XD	SQ.	LGTH		
180TY	.25	20.25	1.12	.69	1-1/2-12	3-8	1.25	10.88	.50	3.00		
210TY	.25	20.25	1.12	.69	1-1/2-12	3-8	1.25	10.88	.50	3.00		

NOTE: Dimension for reference only. Contact Baldor or www.baldor.com for a detailed dimension drawing for your specific catalog number.

Connection Diagrams

416820-101

AC MOTOR CONNECTION DIAGRAM

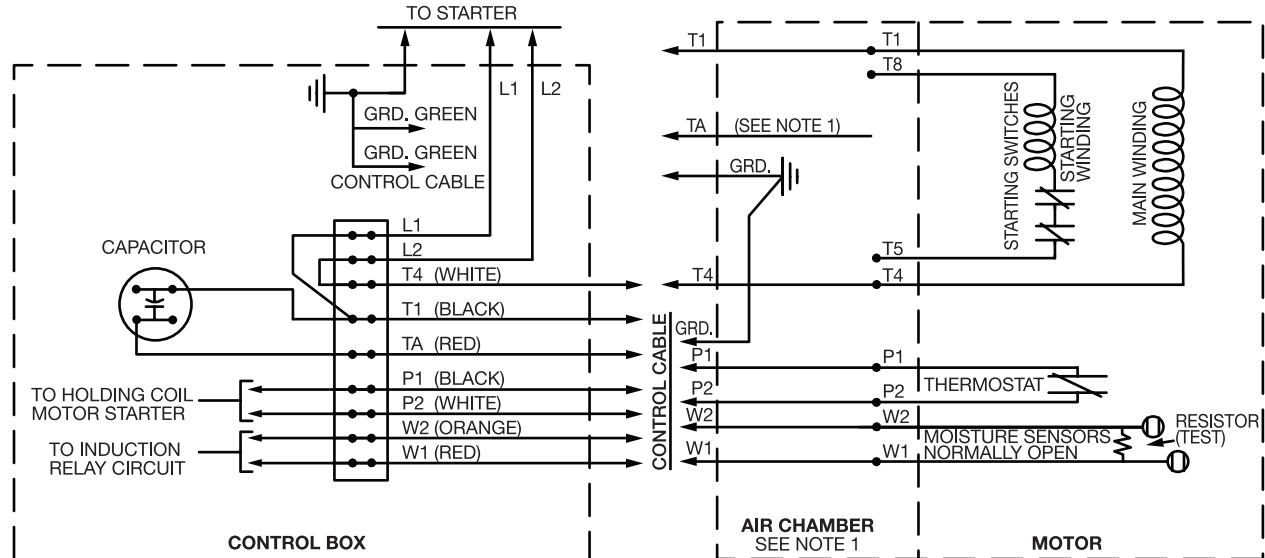
SINGLE PHASE
SINGLE VOLTAGE

CAPACITOR START INDUCTION RUN
SUMP PUMP MOTOR CONTROL BOX

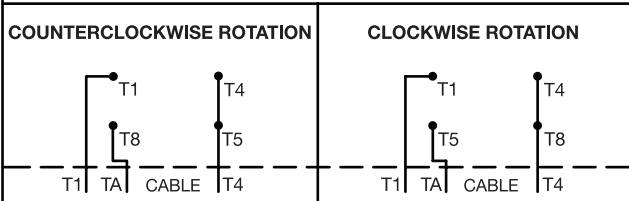
WIRING DIAGRAM FOR SINGLE PHASE CAPACITOR START INDUCTION RUN SUMP PUMP MOTOR CONTROL BOX

SINGLE VOLTAGE COUNTERCLOCKWISE AND COUNTERCLOCKWISE ROTATION (SEE NOTE 1)

THIS CONTROL BOX CONTAINS MOTOR STARTING WINDING CAPACITORS FOR ONE SPECIFIC MOTOR DESIGN AND IS NOT USABLE WITH A MOTOR HAVING A DIFFERENT DESIGN. THIS CONTROL BOX DOES NOT INCLUDE THE NECESSARY MOTOR STARTER WHICH SHOULD BE CONNECTED IN THE POWER CIRCUIT TO THIS CONTROL. ALSO, THIS CONTROL BOX DOES NOT INCLUDE THE NECESSARY INDUCTION RELAY WHICH MUST BE USED IN THE MOISTURE SENSOR CIRCUIT. CONNECT THE MOTOR AND CONTROL BOX FOR THE DESIRED ROTATION ACCORDING TO THE WIRING DIAGRAM AND NOTES BELOW.



- NOTE 1:** IN MOTOR AIR CHAMBER CONNECT FOR DESIRED ROTATION PER WINDING DIAGRAM BELOW.
- NOTE 2:** MOTOR IS PROVIDED WITH A NORMALLY CLOSED THERMOSTAT, CONNECT P1 AND P2 IN SERIES WITH STARTER HOLDING COIL. THERMOSTAT CURRENT MUST NOT EXCEED 2 AMPS AT 125 VOLTS OR 1 AMP AT 250 VOLTS. DO NOT CONNECT P1 AND P2 IN SERIES WITH A MOTOR POWER LEAD.
- NOTE 3:** MOTOR IS FURNISHED WITH MULTICONDUCTOR POWER CABLE, THE COLOR CODING IS AS FOLLOWS:
T1 BLACK T4 WHITE TA RED GRD. GREEN



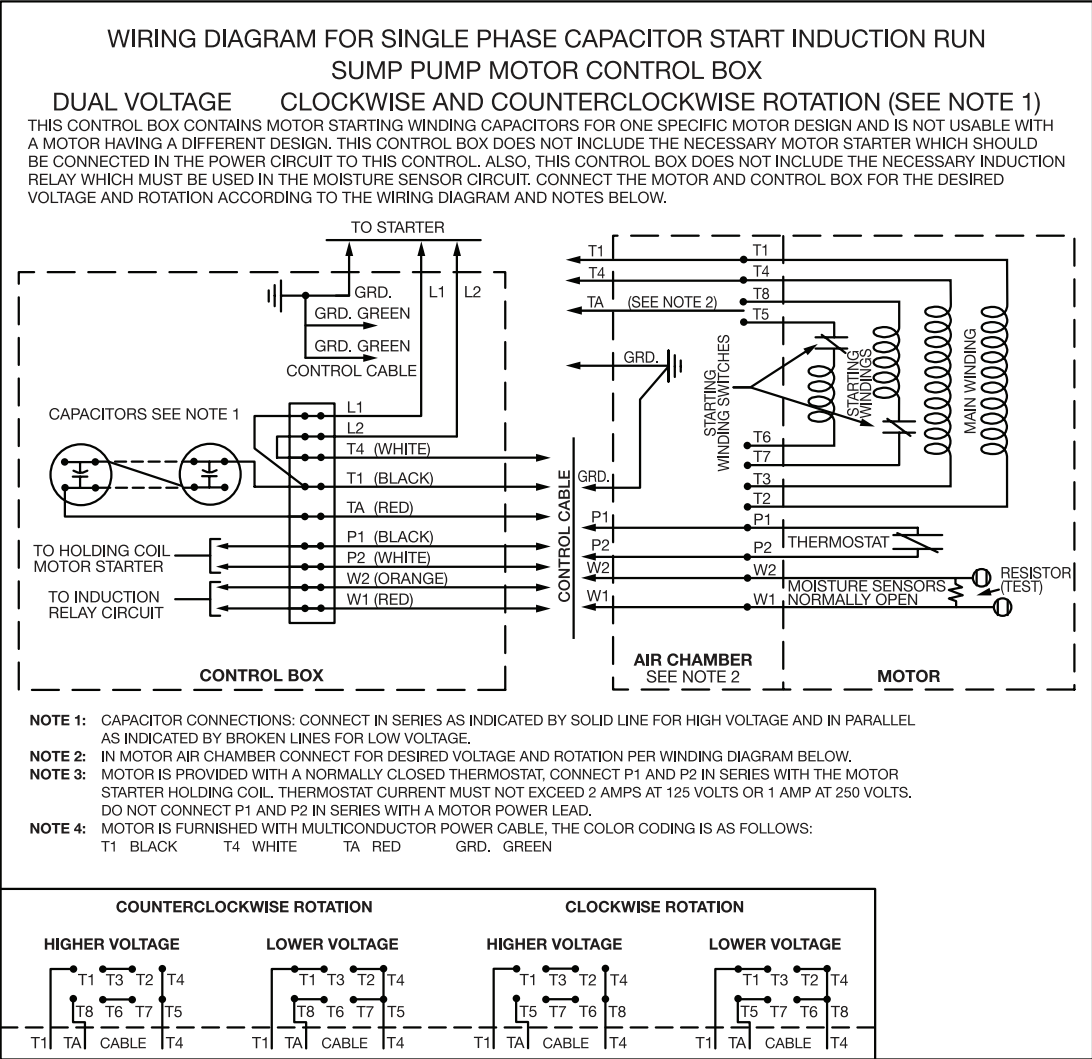
Connection Diagrams

416820-102

AC MOTOR CONNECTION DIAGRAM

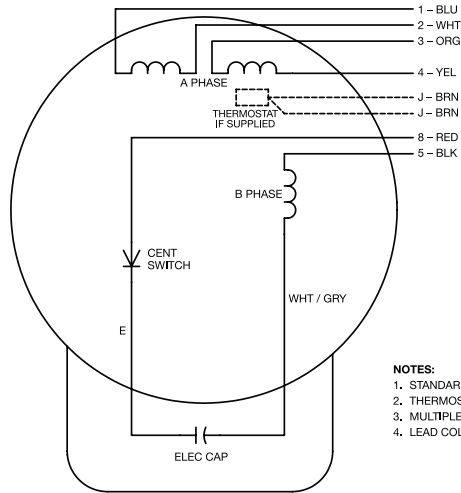
SINGLE PHASE
DUAL VOLTAGE

CAPACITOR START INDUCTION RUN
SUMP PUMP MOTOR CONTROL BOX



Connection Diagrams

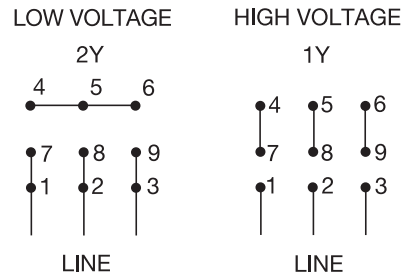
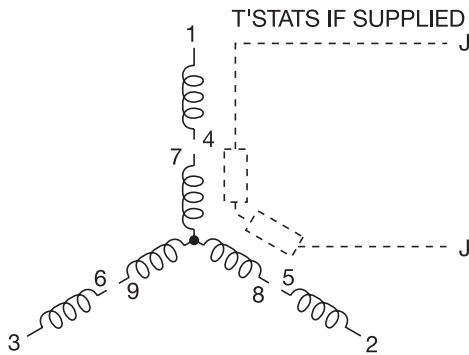
CD0001



	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	—

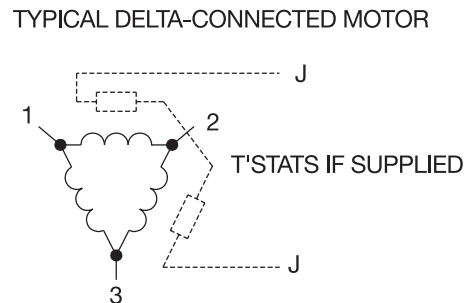
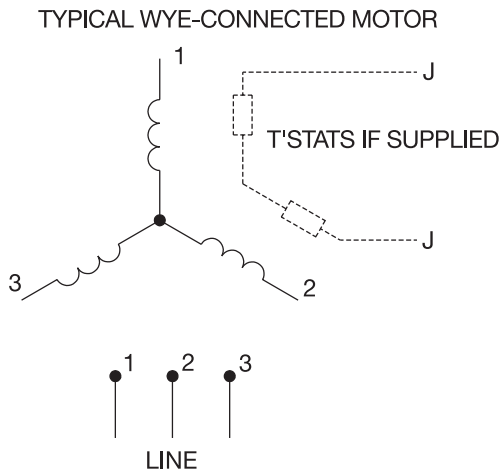
- NOTES:**
1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
 2. THERMOSTAT IS PROVIDED WHEN SPECIFIED.
 3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
 4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0005 and 416820-1



- Notes:**
1. Interchange any two line leads to reverse rotation.
 2. Thermostats are provided when specified.
 3. Actual number of internal parallel circuits may vary.
 4. Lead colors are optional. Leads must be numbered as shown.

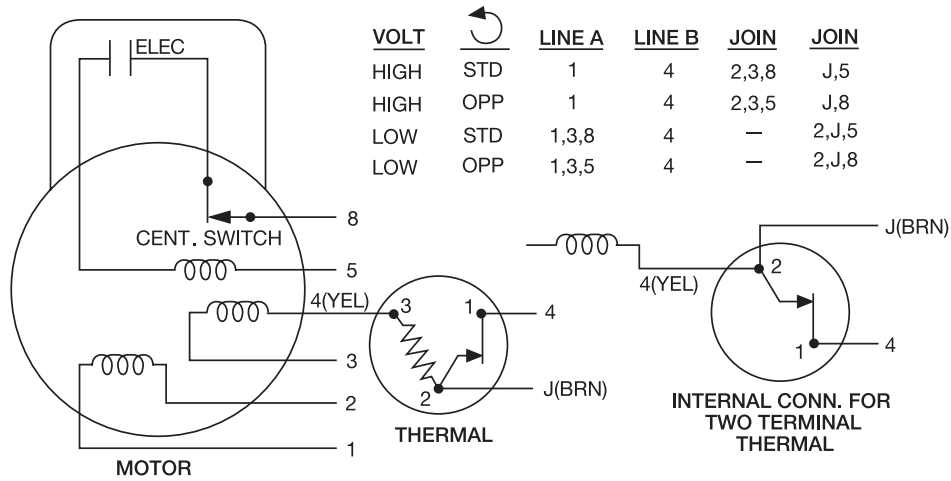
CD0006, 416820-24 and 416820-25



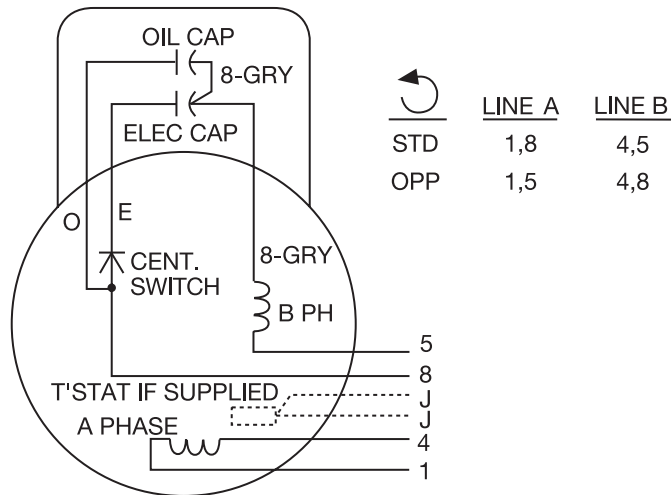
- Notes:**
1. Three lead motors may be designed as either wye-connected or delta-connected.
 2. Interchange any two line leads to reverse rotation.
 3. Thermostats are provided when specified.
 4. Actual number of internal parallel circuits may vary.
 5. Lead colors are optional. Leads must be numbered as shown.

Connection Diagrams

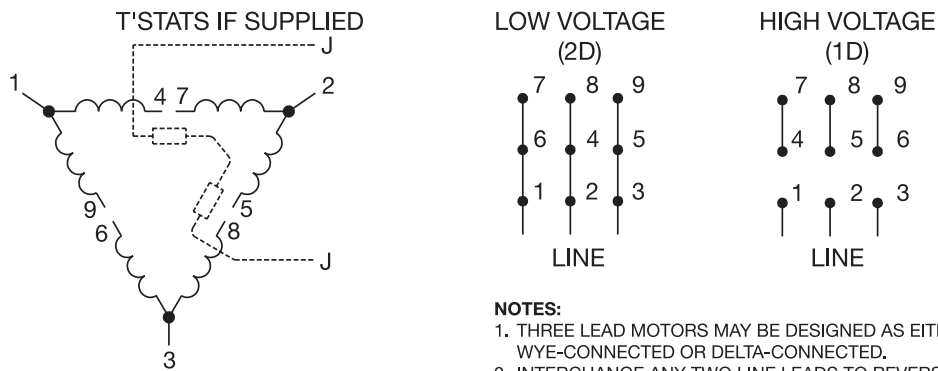
CD0008



CD0017A02



CD0180 and 416820-2

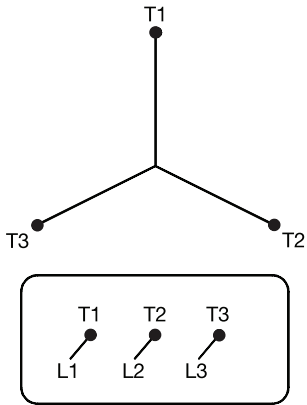


- NOTES:**
1. THREE LEAD MOTORS MAY BE DESIGNED AS EITHER WYE-CONNECTED OR DELTA-CONNECTED.
 2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
 3. THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
 4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.

Connection Diagrams

416820-24

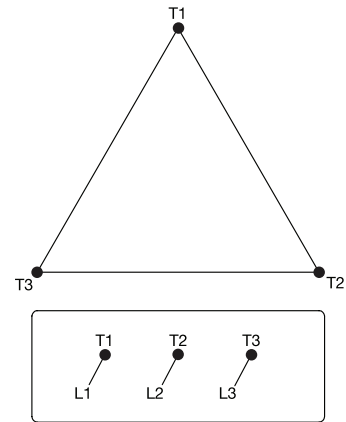
A-C MOTOR
CONNECTION DIAGRAM
STANDARD 3 LEAD Y CONNECTED



(N.P. 1575-BA)

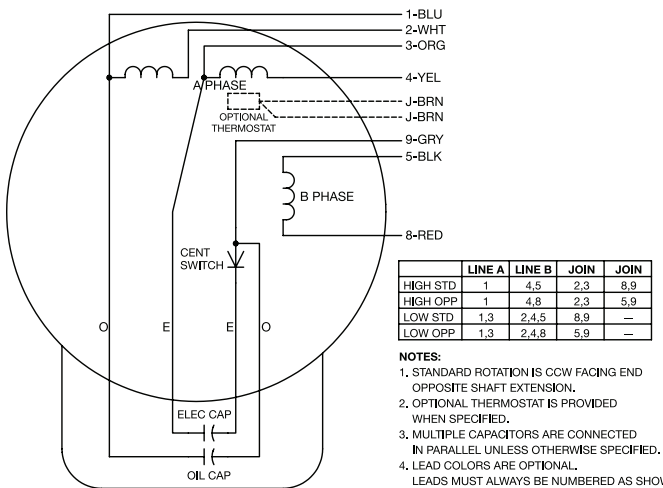
416820-25

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 3 LEAD DELTA CONNECTED



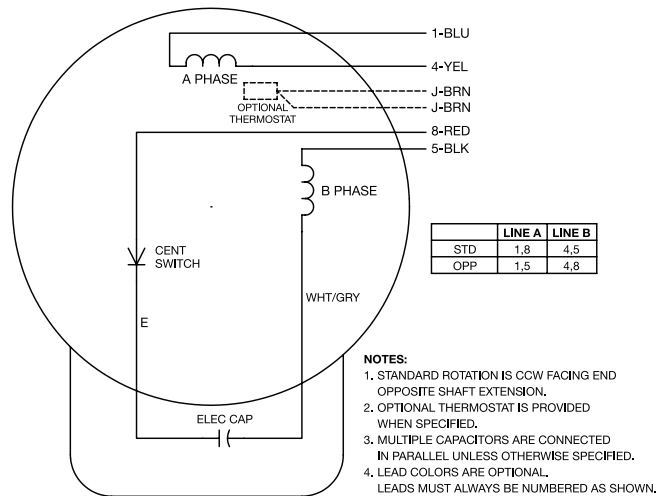
(N.P. 1575-BA)

CD0016A01



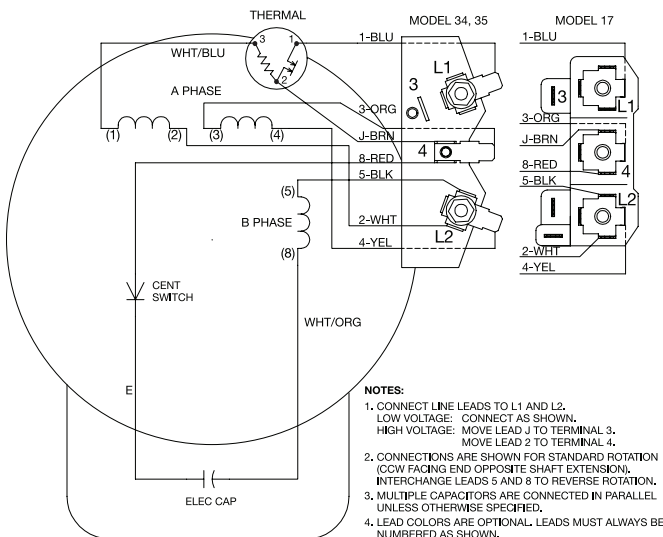
- NOTES:**
- STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
 - OPTIONAL THERMOSTAT IS PROVIDED WHEN SPECIFIED.
 - MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
 - LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0017A01



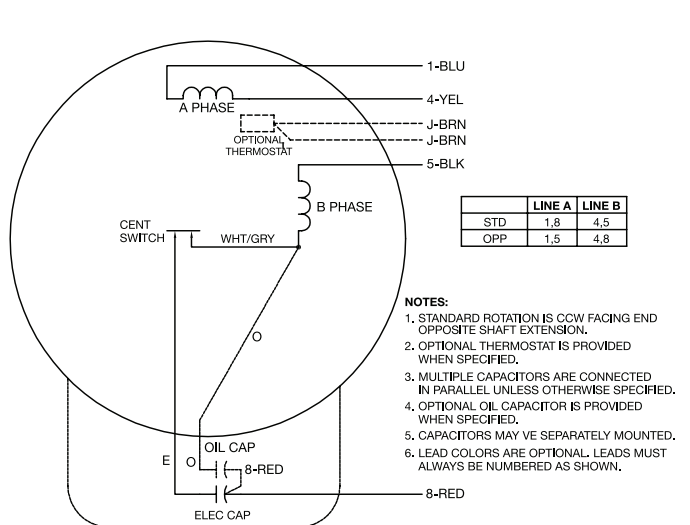
- NOTES:**
- STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
 - OPTIONAL THERMOSTAT IS PROVIDED WHEN SPECIFIED.
 - MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
 - LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0052



- NOTES:**
- CONNECT LINE LEADS TO L1 AND L2. LOW VOLTAGE: CONNECT AS SHOWN. HIGH VOLTAGE: MOVE LEAD J TO TERMINAL 3. MOVE LEAD 2 TO TERMINAL 4.
 - CONNECTIONS ARE SHOWN FOR STANDARD ROTATION (CCW FACING END OPPOSITE SHAFT EXTENSION). INTERCHANGE LEADS 5 AND 8 TO REVERSE ROTATION.
 - MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
 - LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

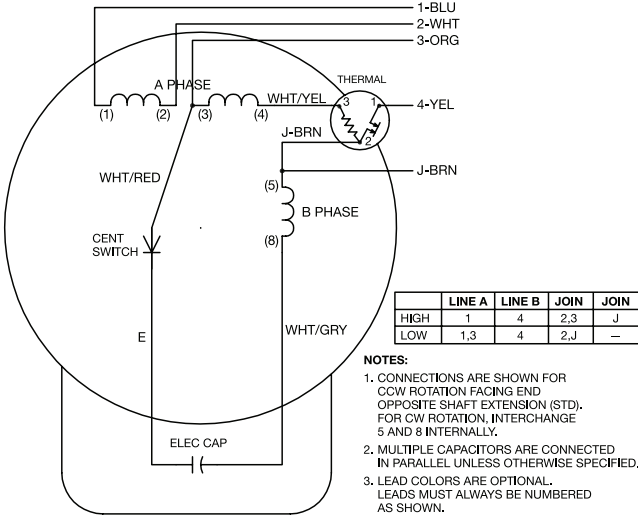
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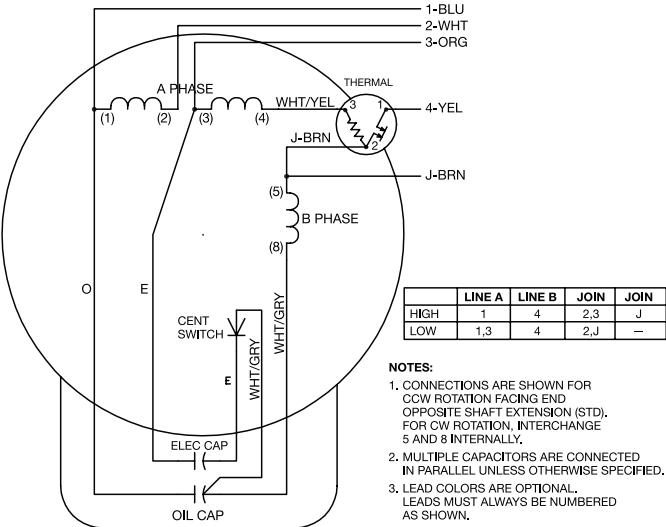
- NOTES:**
- STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
 - OPTIONAL THERMOSTAT IS PROVIDED WHEN SPECIFIED.
 - MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
 - OPTIONAL OIL CAPACITOR IS PROVIDED WHEN SPECIFIED.
 - CAPACITORS MAY BE SEPARATELY MOUNTED.
 - LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

Connection Diagrams

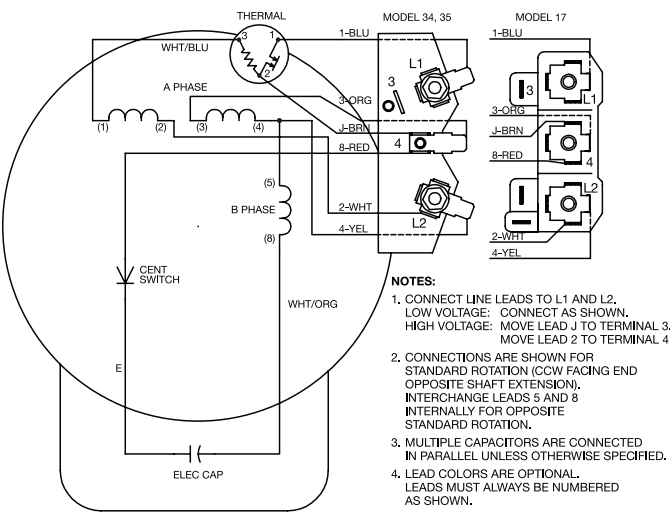
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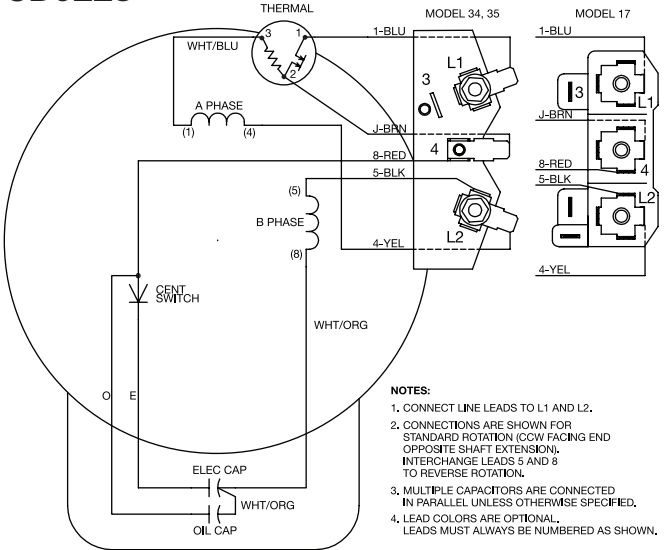
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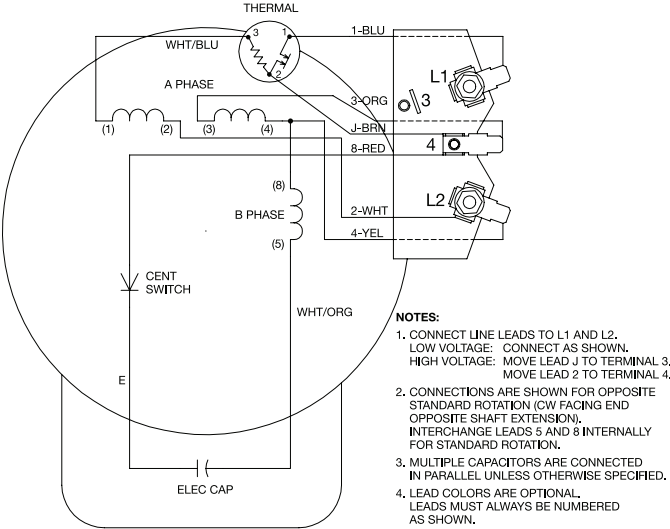
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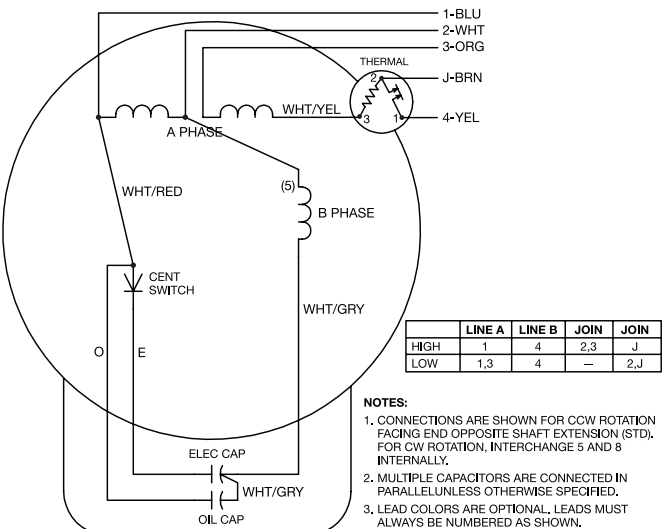
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CD0307

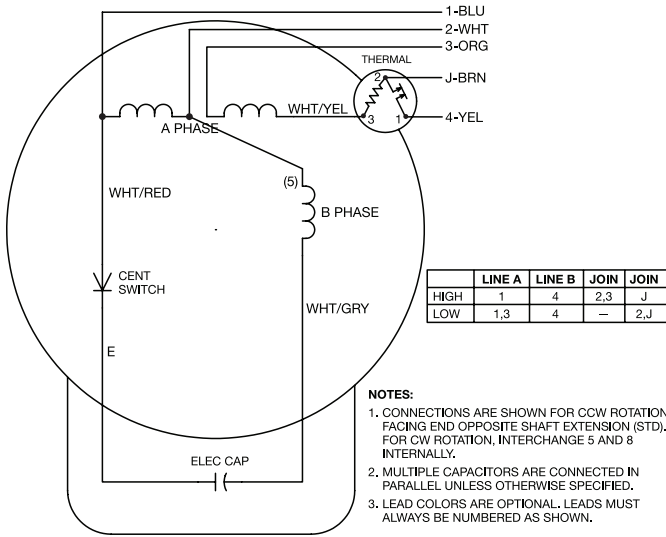


CD0308

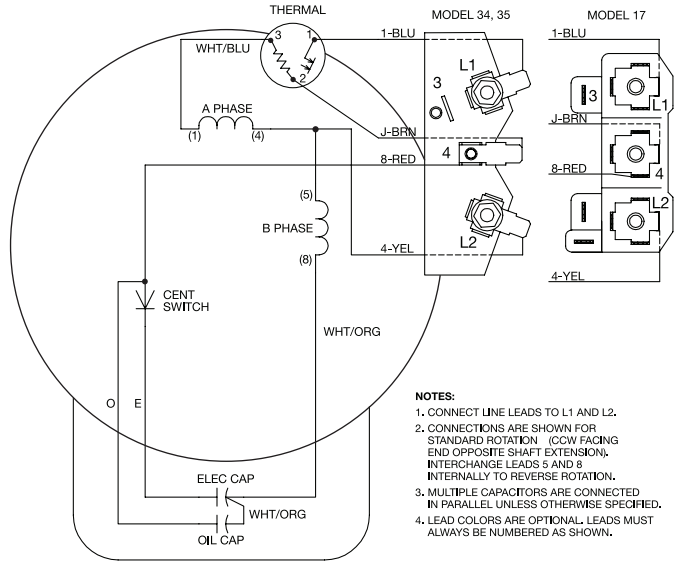


Connection Diagrams

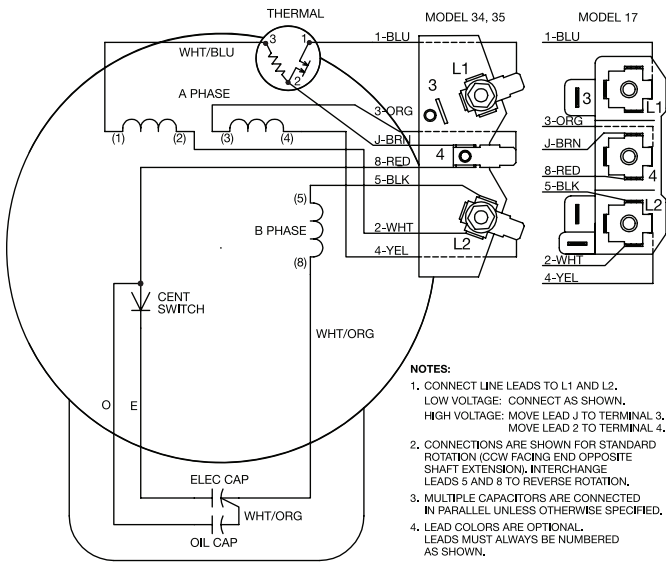
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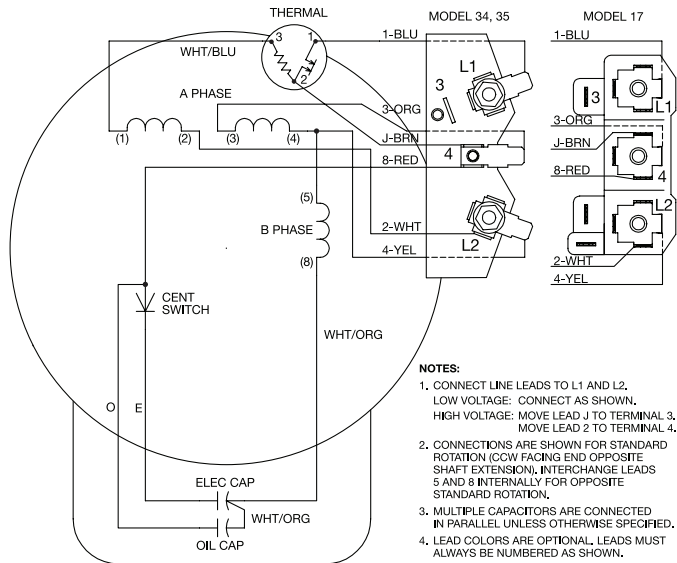
CD0661



CD0703



CD0769



UL AND CSA EXPLOSION-PROOF CLASSIFICATIONS

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 can advise what listings and approvals Baldor motors carry, but cannot evaluate nor recommend what motors may be suitable for use in hazardous environments.

1. Hazardous Locations — For details on area classification and equipment suitability please consult NFPA70™ National Electric Code® Articles 500-516.
 - Class I Group C — locations are those which contain flammable gas, vapor, combustible liquid produced vapor mixed with air that may burn or explode, either having a maximum experimental safe gap (MESG) value greater than 0.45 mm and less than or equal to 0.75mm or a minimum igniting current ratio (MIC ratio) greater than 0.40 and less than or equal to 0.80. Ethylene is a typical Group C gas. For other substances in this group, please consult NFPA 497.
 - Class I Group D — locations are those which contain flammable gas, vapor, combustible liquid produced vapor mixed with air that may burn or explode, either having a (MESG) value greater than 0.75 mm or a (MIC ratio) greater than 0.80. Propane is a typical Group D gas. For other substances in this group, please consult NFPA 497.
 - Class II Group E — locations with atmospheres containing combustible metal dusts such as aluminum, magnesium and their alloys or other combustible dusts with particle sizes and conductivity that present similar hazards. For other substances and guidance relative to this group, please consult NFPA 499.
 - Class II Group F — locations with atmospheres containing combustible carbonaceous dusts with more than 8% entrapped volatiles. Coal, carbon black, charcoal and coke dust are examples from this group. For other substances and guidance relative to this group, please consult NFPA 499.
 - Class II Group G — locations with atmospheres containing combustible dusts not included in Group E or F, including flour, grain, wood, plastic and chemicals. For other substances and guidance relative to this group, please consult NFPA 499.
2. Class II Temperature Codes are typically the lower of either the ignition temperature of the combustible dust that is present or 165°C. These low surface temperature requirements (higher temperature codes) required in Class II F&G require that over temperature protection be used.
 - Explosion-Proof Motors rated 1 1/2 HP or less have internally mounted automatic thermal overloads when indicated by suffix “A”. Caution must be observed when applying these to machinery applications to prevent accidental injury should the thermal device automatically reset and restart the motor.
 - Explosion-Proof Motors rated 1 HP and larger without automatic thermal overloads have thermostats in the windings. These thermostats are pilot circuit devices to be connected to the magnetic starter circuit.
3. Surface temperatures of Baldor Explosion-Proof Motors will not exceed the following UL and CSA maximums under fault conditions. The “T” Code identifies the maximum absolute motor surface temperature that will be developed under all conditions of operation.
 - Division 1 considers external surface temperature and includes overloads and locked rotor conditions.
 - Division 2 considers internal and external surface temperatures during normal operation.

T Code	Maximum Motor Surface Temperature	
	°C	°F
T1	450	842
T2	300	572
T2A	280	536
T2B	260	500
T2C	230	446
T2D	215	419
T3	200	392

T Code	Maximum Motor Surface Temperature	
	°C	°F
T3A	180	356
T3B	165	329
T3C	160	320
T4	135	275
T4A	120	248
T5	100	212
T6	85	185

4. Stock Motors are not suitable for applications in temperatures below -25°C (-13°F). Custom motor designs available for applications in temperatures down to -60C. Contact your Baldor Sales office for further information.
5. All Explosion-Proof motors are supplied with Explosion-Proof UL and CSA approved conduit boxes as standard.
6. Baldor-Reliance AC Explosion Proof Motors, on pages 19-20, are not approved for use on adjustable speed drives, only Inverter Duty Explosion Proof motors can be used. Custom Explosion proof ratings available, contact your Baldor-Reliance Sales Representative.

Explosion Proof motors in this brochure use the following symbols to designate their Division 1, Class and Group certification capabilities. These assignments are for use with this brochure.

XP Class & Group Symbol	Description
①	Class I, Group D
②	Class I, Group D, Class II, Group F & G
③	Class I, Group D, Class II, Group E, F & G
④	Class I, Group C & D
⑤	Class I, Group C & D, Class II, Group F & G

Contact your nearest Baldor District Office at these World Wide locations or visit www.baldor.com

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