



Product Catalog 1050

ELECTRIC MOTORS, GEARMOTORS AND DRIVES
Sub-Fractional to 700 HP

A Regal Brand

REGAL

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New products and pricing are continually updated, for the latest real time product information please refer to leeson.com





Branching Out.

With sales exceeding \$3B, Regal—a global manufacturer of efficient solutions for motion control, air flow and power generation—is the strength behind Leeson, Grove Gear, Unico, Fasco, Genteq and Marathon, among other brands. Collectively, these brands enable deeply integrated system solutions.

Strong Support.

For six decades, Regal has grown both organically and through strategic acquisitions. Our family of brands is supported with best-in-class processes, outstanding people as well as industry-leading technologies that facilitate product innovation and the services our customers expect.

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RIVEN
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ARD excited
TED
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Growth is mutual.

It's the result of decisions well made, and commitments perfectly executed. When we do things right, your growth is impacted as well. From solutions that save energy and money, to robust systems that keep you up and running, we'll anticipate your needs and deliver beyond your expectations. See what deep roots, a strong core product line, talented teams and a commitment to excellence can do for you. We invite you to grow with LEESON.

Mike Catania

Mike Catania, Vice President and Business Leader, LEESON Electric

Investing. Growing.

What you see is just the beginning. Regal will continue to provide solutions you need, no matter where you are. Our manufacturing, sales and service facilities in North America, South America, Europe, Asia, South Africa and Australia are ready to support your growth. Regal Beloit Corporation (NYSE:RBC)

The REGAL logo features the word "REGAL" in a bold, white, sans-serif font, set against a dark gray trapezoidal background that tapers to the right.

Technical Information

Application Information

AGENCY LISTINGS

UL and CSA

LEESON Electric and Lincoln Motors Fire Pump and Explosion Proof motors are UL Listed. Other motor types are UL Recognized, including models with inherent overheating protection as noted (i.e. thermally protected models). Leeson and Lincoln motors are also CSA Certified for both explosion proof and non-explosion proof enclosures.

AC Motors

Non-Explosion Proof	UL File No.	CSA File No.
NEMA 25-449 Frame	E49747	LR2025
NEMA 500 and 5000 Frame	—	LR2025*
IEC 63-90 Frame	E49747	LR2025
IEC 100-280 Frame	E49747	LR2025*
Thermally Protected motors	E6312	LR2025
Insulation Systems	E37900	LR2025
* Does not include coverage for use with VFD		
# Domestic product only		
Explosion Proof	UL File No.	CSA File No.
NEMA 56-326 Frame	E12044	LR47504
NEMA 364-449 Frame	E12044	LR21839
Fire Pump Motors	UL File No.	CSA File No.
NEMA 143-510	EX5190	LR2025
Class I, Division 2/Zone 2	UL File No.	CSA File No.
NEMA 48-449, 5000 Frame	—	LR21839
European ATEX Zone 2	Intertek Certificate No.	
NEMA 143-449, IEC 112-280	ITS06ATEX45370	

PMDC Motors + Gear Motors

Non-Explosion Proof	UL File No.	CSA File No.
NEMA 25-145	E49747	LR2025
AC Inverters	E161242	#
SpeedMaster SCR Controls	E132235	LR41380
FHP Speed Drives	E132235	—
# - UL Certified for Canada under UL File E 1.67242		

ATEX Directive (ATmospheres EXplosibles)

Mandatory by law, the European Union (EU) Directive 94/9/EC requires that electric motors for use in explosive atmospheres carry the CE mark, notified body identifier, Ex symbol, equipment group and category, plus the date code. See "European Installations" for additional details, located on the next page.

NEMA (National Electrical Manufacturers Ass'n)

LEESON Electric and Lincoln Motors' are manufactured in accordance with all applicable areas of NEMA standards in MG1-2006. When applied in accordance with the "Guidelines for Application of Three Phase Motors on Variable Frequency Drives", **LEESON Electric and Lincoln Motors' are in full compliance with NEMA MG1-2006, Part 31, Section 4.4.2**, as pertaining to voltage spikes. 460 volt motors must

withstand voltage spikes of up to 1426 volts; 575 volt motors must withstand spikes up to 1788 volts. See "Insulation Systems" for additional detail on this subject. **Website: www.nema.org**

Commitment to RoHS and WEEE European Directives

European Directive 2002/95/EC "Restriction of Use of Certain Hazardous Substances" (RoHS) and Directive 2002/96/EC "Directives on Waste Electrical and Electronic Equipment" (WEEE) were enacted to control the amount of certain hazardous substances contained in products shipped into the E.U. Restricted substances include lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls and polybrominated diphenyl ethers.

The scope of products covered, affecting motors, is:

- Large household appliances
- Small household appliances
- IT and telecommunications equipment
- Consumer equipment
- Electrical and electronic tools (except large scale stationary and industrial tools)
- Toys, leisure and sports equipment
- Automatic dispensers

The Directives do not currently apply to medical devices, monitoring and control instruments, spare parts for the repair or reuse of electrical and electronic equipment placed on the market before July 1, 2006, and most military and state security equipment.

Regal Beloit Corporation worked closely with suppliers to assure that product falling within the scope of these Directives meets the specified levels of these substances. The Directives took affect July 1st, 2006 however many products were converted in May and June. The products converted are motors in NEMA frame size 145 and below, both AC and DC motors with the following exceptions:

- Brakemotors in 56-145 frame **will have to be ordered specifically as RoHS compliant.**
- **Some motors with specialty electro-mechanical components.**

ISO QUALITY CERTIFICATION

Affiliate of The Regal Beloit Corporation. We are ISO 9001:2008 and our registrar is NSF-ISR. The certificate number for the corporation is C0026928-IS2.

leeson.com/Technical Information

Single Phase
ODP MotorsSingle Phase
TEFC MotorsSingle Phase
C Face MotorsThree Phase
ODP MotorsThree Phase
TEFC MotorsThree Phase
C Face MotorsInverter Duty
MotorsSevere Duty
Motors

LEESON Electric and Lincoln Motors employ the use of Exxon POLYREX[®] EM grease, a specially formulated bearing grease designed for electric motors. POLYREX[®] EM provides superior lubricity, durability and resists corrosion, rust and washout. POLYREX[®] EM is a registered trademark of Mobil Corporation.

Maximum safe mechanical speed capability is a function of bearing size, type and grease selection, as well as rotor balance specifications. Consult the "Maximum Safe Mechanical Speed Limits" chart in the "Overspeed Capability" section.

Note that these values do not imply maximum constant horsepower RPM.

EFFICIENCY

The efficiency of a motor is the ratio of its useful power output to its total power input and is usually expressed in a percentage. LEESON Electric and Lincoln Motors offers standard, high efficient EPAct, and **NEMA Premium[®]** efficient ratings. Standard efficiency motors may only be used on applications that are exempt from legislated efficiencies. The high efficient motor line is in compliance with the Energy Policy Act of 1992 (EPAct) and/or Canadian efficiencies as set by NRCAN. The Energy Independence and Security Act of 2007 (**EISA07**) will become law on December 19, 2010, requiring current EPAct-compliant motors to meet NEMA Premium[®] efficiencies, and most EPAct-exempt motors to meet EPAct levels. Premium efficient motors in this catalog meet NEMA Premium[®] unless otherwise noted.

The LEESON WattSAVERe[®] and Lincoln Ultimate-e[™] line is a premium efficiency line, which exceeds mandated efficiencies of EPAct and/or NRCAN. Unless otherwise noted, premium efficient motors in this catalog meet NEMA Premium[®] the newly promoted efficiency levels by NEMA and the Consortium for Energy Efficiency (CEE).

ELECTRICAL TYPE/STARTING METHOD

Motors in this catalog are capacitor start, split phase, permanent split capacitor, or three phase. Capacitor Start motors have high starting torque, high breakdown torque, and relatively low starting current. Split phase motors have medium starting torque and medium starting current. Permanent split capacitor motors have low starting torque and low starting current. Three phase motors have high starting, extra breakdown torque, and typically very low starting current. Single phase motors cannot be applied on variable frequency drives with three phase output.

ENCLOSURE AND METHOD OF COOLING

LEESON Electric and Lincoln Motors are available in various enclosures; Dripproof (DP), Dripproof Force Ventilated (DPFV), Totally Enclosed Fan Cooled (TEFC), Totally Enclosed Non-Ventilated (TENV), Totally Enclosed (TEAO) and Totally

Enclosed Blower Cooled (TEBC). Application conditions will determine the type of motor enclosure required.

Dripproof motors have open enclosures and are suitable for indoor use and in relatively clean atmospheres. Dripproof motors have ventilating openings constructed so that drops of liquid or solid particles falling on the machine at an angle of not greater than 15 degrees from the vertical cannot enter the machine.

Totally enclosed motors are suitable for use in humid environments or dusty, contaminated atmospheres. Totally enclosed non-ventilated motors are NOT cooled by external means. Totally enclosed fan cooled motors are cooled by external means that are part of the motor but not in the internal workings of the motor. Totally enclosed air over motors are sufficiently cooled by external means, provided by the customer.

HAZARDOUS DUTY

Hazardous Duty motors are totally enclosed (fan cooled or non-ventilated) motors designed for applications in hazardous atmospheres containing explosive gases and/or combustible dusts.

North American installations

North American standards for electric motors generally fall into one of two divisions. Division 1 Explosion Proof motors are UL Listed in accordance with NFPA Class I (Flammable Gases) or Class II (Combustible Dusts) and Groups (gases or dusts), depending upon the atmosphere. Division 2 motors are CSA Certified and are marked similarly to Division 1 equipment. Inverter Duty motors through 449T frames are CSA Certified for use in Division 2 locations.

European installations

Motors for hazardous locations in Europe must meet a different set of standards and require different markings than those of North America. CENELEC sets the standards for equipment in hazardous locations for Europe. Motors for use in explosive atmospheres in Europe are often referred to as flameproof (Zone 1) or non-sparking (Zone 2) motors. These motors must comply with the ATEX Directive. The ATEX Directive covers all electrical equipment used in explosive atmospheres. To ensure compliance with the Directive, equipment must meet the essential ATEX requirements and carry the CE mark on the nameplate. Other information required on the nameplate includes the Ex symbol, group & category, Ex protection method, gas group, and temperature code, example (Ex) II 3 G Ex nA IIC T3).

The tables on the next page describe LEESON Electric and Lincoln Motors capabilities by Area Classification and by Temperature Code.

Single Phase
ODP Motors

Single Phase
TEFC Motors

Single Phase
C Face Motors

Three Phase
ODP Motors

Three Phase
TEFC Motors

Three Phase
C Face Motors

Inverter Duty
Motors

Severe Duty
Motors



Technical Information

Application Information

Single Phase
ODP Motors

Single Phase
TEFC Motors

Single Phase
C Face Motors

Three Phase
ODP Motors

Three Phase
TEFC Motors

Three Phase
C Face Motors

Inverter Duty
Motors

Severe Duty
Motors

LEESON Electric and Lincoln Motors Hazardous Duty Motor Area Classification Chart

Class I Area Classification (Flammable Gases, Vapors or Mists)				Class II Area Classification (Combustible Dusts)			
North America		Europe - ATEX [Ⓞ] (Category G - Gases)		North America		Europe - ATEX [Ⓞ] (Category D - Dusts)	
Division 1 Explosion Proof	Division 2 TEFC & TENV	Zone 1 Flameproof	Zone 2 Non-Sparking	Division 1 Explosion Proof	Division 2	Zone 21 Flameproof	Zone 22 Non-Sparking
Group A [Ⓞ]	Group A	N/A	N/A	-	-	-	-
Group B [Ⓞ]	Group B	N/A	N/A	-	-	-	-
Group C	Group C	N/A	N/A	-	-	-	-
Group D	Group D	N/A	N/A	-	-	-	-
-	-	N/A	-	Group E [Ⓞ]	-	N/A	N/A
-	-	N/A	-	Group F	Group F [Ⓞ]	N/A	N/A
-	-	N/A	-	Group G	Group G [Ⓞ]	N/A	N/A

- Group is not applicable to that Division or Zone, or is not defined.
- Ⓞ Group is not available from LEESON Electric and Lincoln Motors.
- Ⓞ Contact factory representative for availability.
- Ⓞ Currently not available.

LEESON Electric and Lincoln Motors Hazardous Duty Motor Temperature Code Chart

Temp.	TEMPERATURE CODES		Division 1 Explosion Proof / Flameproof		Division 2 / Non-Sparking
	UL/CSA	ATEX	Class I Area Classification (Flammable Gases, Vapors or Mists)	Class II Area Classification* (Combustible Dusts)	Class I Area Classification (Flammable Gases, Vapors or Mists)
280°C	T2A	T2(280)	Division 1/Zone 1	Division 1/Zone 21	Division 2/Zone 2
260°C	T2B	T2(260)	Explosion Proof - Class I, Group D (Group C as noted)		Severe Duty & IEEE-841 @ 1.15 S.F., Class I, Groups A,B,C,D (Sine wave power)
215°C	T2D	T2(215)			
200°C	T3	T3			
165°C	T3B	T3(165)	Explosion Proof - Class I, Group D (Group C as noted), Sine wave or PWM power	Explosion Proof - Class II, Groups F & G, Sine wave or PWM power	
160°C	T3C	T3(160)			
135°C	T4	T4			

* Class II, Division 2 motors are not available from LEESON Electric and Lincoln Motors.

Division I & II ambient range is -25°C to +40°C



Technical Information

Application Information

Guidelines for Application of General Purpose, Three Phase, Single Speed Motors on Variable Frequency Drives Meets NEMA MG1-2006 Part 30 and Part 31 Section 4.4.2 Unless stated otherwise, motor nameplates do NOT include listed speed range.

ENCLOSURE	EFFICIENCY	VARIABLE TORQUE	CONSTANT TORQUE								
		ALL FRAMES	56	143-215		254-286		324-365		404-449	
NEMA Motors		ALL POLES	ALL POLES	2-Pole	4&6 Pole	2-Pole	4&6 Pole	2-Pole	4&6 Pole	2-Pole	4&6 Pole
ODP	Standard (EPAct exempt)	10:1	2:1	2:1	2:1	Contact Engineering					
	EPAct compliant	10:1	n/a	10:1	2:1	2:1	2:1	Contact Engineering			
	NEMA Premium	10:1	n/a	2:1	10:1	10:1	10:1				
TEFC	Standard (EPAct exempt)	10:1	2:1	2:1	2:1	Contact Engineering					
	EPAct compliant	10:1	n/a	2:1	10:1	2:1	10:1	2:1	2:1	2:1	2:1
	NEMA Premium	10:1	n/a	2:1	20:1	2:1	20:1	2:1	20:1 (1)	2:1	20:1 (1)
TENV	EPAct compliant	10:1	n/a	1000:1	1000:1	1000:1	1000:1	1000:1	1000:1	1000:1	1000:1
	NEMA Premium	10:1	1000:1	1000:1	1000:1	1000:1	1000:1	1000:1	1000:1	1000:1	1000:1
Washdown TEFC	Standard (EPAct exempt)	10:1	10:1 (2)	10:1 (2)	10:1 (2)	n/a	n/a	n/a	n/a	n/a	n/a
	EPAct compliant	10:1	10:1 (2)	10:1 (2)	10:1 (2)	n/a	n/a	n/a	n/a	n/a	n/a
	NEMA Premium	10:1	10:1 (2)	10:1 (2)	10:1 (2)	n/a	n/a	n/a	n/a	n/a	n/a
Washdown TENV	Standard (EPAct exempt)	10:1	1000:1	1000:1	1000:1	n/a	n/a	n/a	n/a	n/a	n/a
	EPAct compliant	10:1	1000:1	1000:1	1000:1	n/a	n/a	n/a	n/a	n/a	n/a
	NEMA Premium	10:1	1000:1	1000:1	1000:1	n/a	n/a	n/a	n/a	n/a	n/a
Explosion Proof	all efficiency levels	Explosion Proof motors must be properly nameplated with inverter duty information prior to use on VFD. See LEESON catalog pages for specific rating capabilities. Motors with automatic overload protectors cannot be used on VFDs.									
IEC Motors		ALL FRAMES	63-90	100-225		250-315					
all Enclosures	all efficiency levels	10:1	20:1	Up to 20:1		Up to 2:1					

Note (2) - Washdown TEFC motors are rated for 10:1 C.T. 60 minute duty or 2:1 C.T. continuous duty at lowest RPM
 Lincoln Rolled Steel - ODP - 280-360 Frame - 2:1 Constant Torque
 280 Frame and Higher - TEFC -280-360 Frame- 2:1 Constant Torque
 400 Frame and Higher - Contact Local Sales office
 Stock 90 VDC and 180 VDC Motors 30:1 of rated torque

Application Notes

Bearing currents: LEESON Electric recommends that any motors used with Variable Frequency Drives be equipped with suitable means to protect the motor bearings from shaft currents caused by common mode voltages inherent with operation on a non-sinusoidal power supply. LEESON Electric offers several options for motors in non-classified (non-hazardous) locations, including ground brushes, insulated bearings and non-contact shaft grounding rings. For more information on ground brushes and bearing currents, see the VARIABLE SPEED OPERATION section. For installation cost and available options, see the MOD Squad section.

Restricted use: DO NOT APPLY THE FOLLOWING MOTORS ON VARIABLE FREQUENCY DRIVES:

Standard Motor Insulation Systems

PRODUCT DESCRIPTION	3 kHz CARRIER FREQUENCY (PHASE TO PHASE)*		
	230 VOLT	460 VOLT	575 VOLT
56-326 NEMA, 100-225 IEC Frames	600 ft.	125 ft.	40 ft.
364-5013 NEMA, 250-315 IEC Frames	1000 ft.	225 ft.	60 ft.
Motors with Corona Resistant Magnet Wire	1500 ft.	475 ft.	140 ft.
Motors with IRIS™ or Ultimate-e™ Spike Defense™	Unlimited	Unlimited	650 ft.
Form-wound low voltage motors	Unlimited	Unlimited	650 ft.
Standard Motor Insulation Systems			
IRIS™ INSULATION SYSTEM	ULTIMATE SPIKE DEFENSE™		
All LEESON 3-Phase Motors 1HP and above	Lincoln Premium Efficient Motors		
All LEESON Premium Efficient Motors	Lincoln Inverter Duty Motors		
All LEESON Inverter Duty Motors	Lincoln CTAC® Motors		

Single Phase motors: Motors with inherent overload protection, Multi-speed motors, Motors with 1.0 service Factor on sine wave power. Fire Pump motors should not be used with variable frequency power supplies, due to the critical nature of these applications.

Hazardous locations: Consult with LEESON Electric when applying motors and drives into hazardous locations, either Division/Zone 1 or Division/Zone 2 areas. UL and CSA policies prohibit the installation of bearing protection devices, such as shaft grounding brushes, rings or insulated bearings on motors in hazardous locations.

Maximum Cable Lengths from the Motor to Drive

* Higher carrier frequencies require shorter cable length to obtain normal (50Khrs) insulation life.



Tech Information

Single Phase ODP Motors

Single Phase TEFC Motors

Single Phase C Face Motors

Three Phase ODP Motors

Three Phase TEFC Motors

Three Phase C Face Motors

Inverter Duty Motors

Severe Duty Motors

Technical Information

Application Information

VARIABLE SPEED INFORMATION

LEESON Electric and Lincoln Motors Vector-Duty and Inverter Duty motors, unless otherwise stated, are rated for continuous operation in a 40°C ambient and for altitudes up to 3300 feet (1000 meters) above sea level. Special application considerations, such as high or low ambient, intermittent ratings, high altitude, duty cycle rated, extended constant horsepower range, special base speed, voltage or frequency, or any other special requirements, should be reviewed by a factory representative.

It is the responsibility of the startup personnel during commissioning of the VFD/motor system to properly tune the drive to the motor for the specific application. The correct voltage boost and volts/hertz settings are application dependent and unique to each motor design. Procedures for these adjustments should be in your VFD user manual. Many Vector Duty and Inverter Duty motors in this catalog are equipped with thermostats; warranty coverage may be denied if they are not properly utilized.

⚠ WARNING *Power factor correction capacitors should never be installed between the drive and the motor.*

INVERTER DUTY OR INVERTER RATED

“Inverter Duty” (often called “Inverter Rated”) motors are suitable for use with Variable Frequency Drives, as long as operation is within the application guidelines published in this catalog. In general, LEESON Electric and Lincoln Motors’ three phase, general purpose, NEMA Design B motors are considered “Inverter Duty”, and meet or exceed the requirements of NEMA MG1, Part 30. As required under Federal law, these motors comply with EISA2007 efficiencies when operating from utility power.

Inverter Duty (Rated) motors are most often used in 10:1 speed range, variable torque or constant torque applications. A vector control is usually required for operation beyond 10:1 CT.

Additional detail regarding a specific product’s capabilities is available on its catalog page, or by consulting your application engineer.

VECTOR DUTY – “Vector Duty” describes a class of motors that are used in conjunction with Open- (without encoder) or Closed-Loop (with encoder) Vector controls, that provide enhanced performance under low speed operating conditions, or in cases where torque (rather than speed) must be controlled. “Vector Duty” motors can be applied to Volts/Hertz (scalar) drives, as well.

LEESON Electric’s Speedmaster® motors and Lincoln Motors’ CTAC Motors, have been specifically designed for optimal operation on vector or volts/hertz controls. These motors feature a wide constant torque (up to 2000:1) and/or constant horsepower (up to 4:1) speed range and are performance-matched to all current technology IGBT drives. Vector Duty motors meet or exceed the requirements of NEMA MG1, Part 31, and are equipped with an enhanced insulation system (IRIS or Ultimate Spike Defense) to provide many years of trouble-free service. Consult the catalog page for each product’s capabilities and features. As

these motors are specifically designed for operation through an inverter, they are exempt from EISA2007.

VARIABLE TORQUE LOADS – Applications include fans, blowers and centrifugal pumps. Torque varies as the square of the speed, and horsepower as the cube of the speed. Operation below base speed significantly lightens the load on the motor. While most variable torque applications do not require the motor to operate below half speed, the motor is fully capable of operation to zero speed. Operation above base speed significantly adds to the load on the motor; therefore, a factory representative must review applications requiring variable torque above base speed. Refer to the application chart found on page 9 for use of general purpose three phase motors on variable frequency drives. A bypass circuit is often employed in Variable Torque applications. If this device is intended to be used, selection of a NEMA Design B motor is recommended, to withstand the inrush current during across-the-line starting.

CONSTANT TORQUE LOADS – Applications include conveyors, elevators, hoists, extruders, positive displacement pumps, mixers and converting equipment. Torque remains constant throughout the range of operation, and extra care should be taken in the proper application of motors, especially at very low speeds. Most constant torque applications don’t require operation below 10:1 (i.e. 6 Hz operation on a 60 Hz motor), but an increasing number of applications historically reserved for servo and/or stepper systems are being served with motors capable of operation beyond 20:1...even up to 2000:1 (zero speed, constant torque). Refer to the application chart found on page 14 for use of general purpose three phase motors on variable frequency drives.

Applications requiring greater than 20:1 C.T. are ideal for LEESON Speedmaster® Inverter Duty/Vector Duty and Lincoln Vector Duty CTAC® motors. These motors provide full rated torque within their listed speed range, without exceeding a Class F temperature rating while under inverter power (many operate at Class B). Ratings in this catalog have been developed, based on extensive testing on IGBT inverters, set at a minimum 3 KHz (or equivalent) carrier frequency.

Vector Duty and Inverter Duty motors from LEESON Electric and Lincoln Motors are designed for operation at 150% of rated load for one minute, up to the base speed of the motor (overload capability declines to 100% as the motor reaches maximum constant HP speed). These motors accommodate constant horsepower operation to 1-1/2 to 2 times base speed, subject to the motor’s maximum safe mechanical speed limit. Refer to the Maximum Safe Mechanical Speed Chart, as well as the performance section for each motor’s capability.

Motors rated for zero RPM continuous duty (1000:1 or 2000:1) must be powered by vector drives to produce rated torque without overheating. Optimum zero speed and low-speed full torque performance may require a closed loop vector drive (with encoder feedback).

Continued on next page.

Single Phase
ODP MotorsSingle Phase
TEFC MotorsSingle Phase
C Face MotorsThree Phase
ODP MotorsThree Phase
TEFC MotorsThree Phase
C Face MotorsInverter Duty
MotorsSevere Duty
Motors

Technical Information

Variable Speed Operation

CONSTANT HORSEPOWER LOADS – Applications include coil winders, band saws, grinders, and turret lathes. Operation requires the motor to deliver the same horsepower rating, regardless of shaft speed. Torque increases at low speed and decreases at higher speed. Most general purpose motors can deliver constant horsepower up to 1 1/2 times base speed (consult a factory representative to verify performance). However, many constant HP applications require operation to twice base speed, and some, such as coil winders, up to 4 times base speed.

MOTOR GROUNDING - Frames and accessories of all motors must be grounded in accordance with the National Electric Code (NEC) Article 430. Refer to NEC Article 250 for general information on grounding. Proper grounding of inverter-driven motors is essential to protect personnel and livestock from inverter-sourced common mode voltages, which may reach hazardous levels on the frame of ungrounded or poorly grounded motors.

LOW INPUT VOLTAGE – If, due to lower utility supply voltage, the input voltage from the VFD to the motor is lower than the motor’s rated voltage, de-rating of the motor’s base frequency, horsepower, full load RPM, and constant HP RPM is required. The revised values can be calculated by multiplying by the ratio of the voltage change. For example, to operate a 460 volt motor from an inverter fed by 50 or 60 HZ, 400 volt utility power, the multiplier is 400/460 or 0.87.

The VFD can be reprogrammed to match the new base point values, allowing the motor to provide rated torque at rated current from the new base speed down to its original minimum Constant torque speed. The motor’s CHP range will begin at the new base frequency and will be shortened by the same ratio as described above.

OVERSPEED CAPABILITY – Maximum safe mechanical speed capability is a function of bearing size and type, lubrication, rotor balancing technique and specifications, air gap, enclosure, frame construction and connection to the driven load. In addition, consideration must be given to ambient noise levels, as operation above base speed will increase motor noise and vibration, and reduce bearing life. Under no circumstances should bearing hub temperature exceed 100° C. Belted loads should not exceed 60 Hz operating RPM by more than 25% (NEMA “TS” shafts are not suitable for belted loads). Due to external cooling fans, TEFC (and Explosion Proof Fan Cooled) motors are limited to 4000 RPM maximum speed.

Maximum Safe Mechanical Speed Limits
(ODP, TENV, DPFV OR TEBC ENCLOSURES)
60 Hz base frequency

Frame Size	2-Pole	4, 6 or 8-Pole
56-184	7200	5400
213-256	5400	4200
284-286	5400	3600
324-326	4000	3600
364-365	4000	2800
404-449	3600	2800
5000 Fr	N/A	CALL
6800 Fr	N/A	CALL



Technical Information

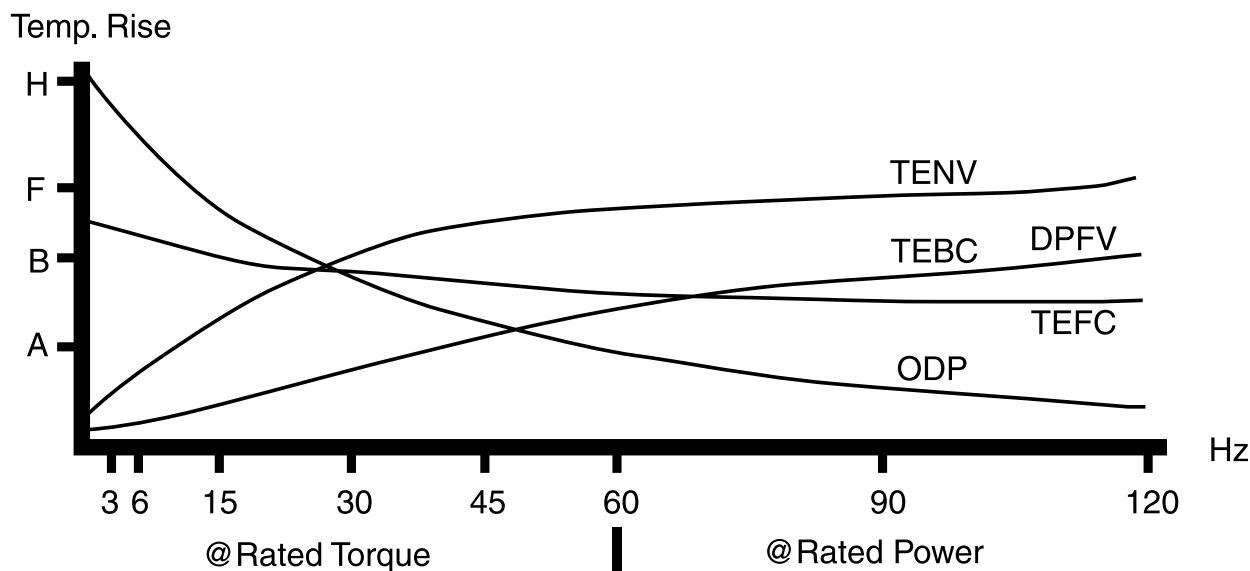
Variable Speed Operation

OTHER APPLICATION CONSIDERATIONS –

For proper selection, the following should be considered:

- Horsepower or torque requirements at various speeds.
- Desired speed range of the load and motor.
- Acceleration and deceleration rate requirements of the process being controlled.
- Starting requirements including the frequency of starting and a description of the load (reflected inertia at the motor, load torque during starting).
- Whether the application is a continuous process or duty cycle of starts, stops and speed changes.
- A general description of the type of application including the environment in which the VFD system components must operate (determines motor enclosure and/or explosion proof classification).
- Description of the available electrical power supply and wiring.
- Special performance requirements, if any.
- Whether the drive will be configured with a by-pass circuit. In case of its deployment, the motor will operate like its fixed speed counterpart and may require a NEMA B design which limits in-rush current, or selection of a larger motor starter or other protective circuitry.
- Load sharing
- Mounting and other mechanical considerations

Typical Temperature Rise Of Various Enclosures



LEESON Model Number Nomenclature

LEESON MOTOR MODEL NUMBER NOMENCLATURE

All LEESON motors, both stock and custom, have a catalog number and a model number. The model number appears on the motor's nameplate and describes pertinent electrical and mechanical features of the motor. An example follows along with a listing of the various letters and positions used.

POSITION 1: U.L. PREFIX

- A = Auto protector. U.L. recognized for locked rotor plus run, also recognized construction (U.L. 1004)*.
- M = Manual protector. U.L. recognized for locked rotor plus run, also recognized construction (U.L. 1004)*.
- C = Component recognition. (U.L. 1004) No protector.
- U = Auto protector. U.L. recognized construction (UL1004). Motor/protector combination not UL recognized.
- P = Manual protector. U.L. recognized construction (UL1004). Motor/protector combination not UL recognized.
- T = Thermostat, not U.L. recognized.
- N = No overload protection.

*This applies only to 48, 56, and 56 frame designs through 1 HP, Open & TENV.

POSITION 2: FRAME

4 = 48 Frame	24 = 24 Frame	40 = 40 Frame
6 = 56 Frame	25 = 25 Frame	43 = 43 Frame
42 = 42 Frame	30 = 30 Frame	44 = 44 Frame
143 = 143T Frame	31 = 31 Frame	
145 = 145T Frame	32 = 32 Frame	
182 = 182T Frame	34 = 34 Frame	
184 = 184T Frame	38 = 38 Frame	
213 = 213T Frame		
215 = 215T Frame		
254 = 254T Frame		
256 = 256T Frame		
284 = 284T Frame		
286 = 286T Frame		
324 = 324T Frame		
326 = 326T Frame		
364 = 364T Frame		
365 = 365T Frame		
404 = 404T Frame		
405 = 405 T Frame		
444 = 444T Frame		
447 = 447T Frame		
449 = 449T Frame		

POSITION 3: MOTOR TYPE

- C = Cap. Start/Ind. Run
- D = Direct Current
- K = Cap. Start/Cap. Run
- P = Permanent Split
- T = Three Phase
- B = Brushless DC
- H = Inverter Rated/IEEE841
- S = Split Phase

Odd frequencies other than 50 Hz show synchronous speed code.

DC and special motors may have one, two, or three digits indicating motor speed rounded to the nearest hundred RPM.

EXAMPLE:

Position No. **1 2 3 4 5 6 7 8**
 Sample Model No. **A 4 C 17 D B 1 A**

POSITION 4: RPM

RPM-Single Speed

- 34 = 3450 RPM 60 Hz 2 Pole
- 28 = 2850 RPM 50 Hz 2 Pole
- 17 = 1725 RPM 60 Hz 4 Pole
- 14 = 1425 RPM 50 Hz 4 Pole
- 11 = 1140 RPM 60 Hz 6 Pole
- 9 = 950 RPM 50 Hz 6 Pole
- 8 = 960 RPM 60 Hz 8 Pole
- 7 = 720 RPM 50 Hz 8 Pole
- 7 = 795 RPM 60 Hz 10 Pole
- 6 = 580 RPM 50 Hz 10 Pole
- 6 = 580 RPM 60 Hz 12 Pole

RPM-Multi-Speed

- 24 = 2 and 4 Poles
- 26 = 2 and 6 Poles
- 82 = 2 and 8 Poles
- 212 = 2 and 12 Poles
- 46 = 4 and 6 Poles
- 48 = 4 and 8 Poles
- 410 = 4 and 10 Poles
- 412 = 4 and 12 Poles
- 68 = 6 and 8 Poles

POSITION 5: ENCLOSURE

- D = Drip-Proof
- E = Explosion-Proof TENV
- F = Fan Cooled
- N = TENV
- O = Open
- S = Splashproof
- W = Weatherproof, Severe Duty, Chemical Duty, WASHGUARD - TEFC
- X = Explosion-Proof TEFC
- V = Weatherproof, Severe Duty, Chemical Duty, WASHGUARD - TENV

POSITION 6: MOUNTING

- B = Rigid base standard
- C = "C" face - no base - NEMA
- D = "D" flange - no base - NEMA
- H = 48 frame - 56 frame mounting/shaft rigid
- J = 48 frame - 56 frame mounting/shaft resilient
- K = Rigid mount with "C" flange
- M = Motor parts - rotor and stator
- R = Resilient base
- S = Shell motor
- T = Round body
- Z = Special mounting

POSITION 7: SEQUENCE NUMBER

Number assigned as required when new designs with new characteristics are needed.

POSITION 8: MODIFICATION LETTER

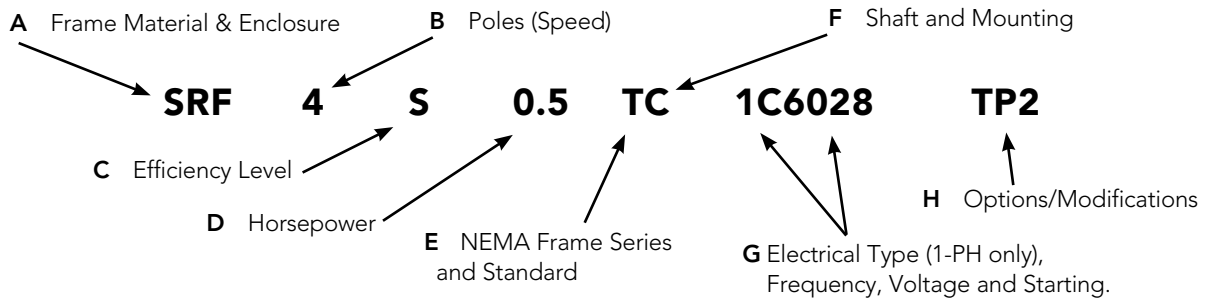
Major modification letter. Used when revisions made in existing model will affect service parts.



Technical Information

Lincoln Motors Model Number Defined

A Typical Single Phase Motor Model Number



A Typical Three Phase Motor Model Number

EXAMPLE:

Position No.	A	B	C	D	E,F	G	H
Sample Three Phase Model No. SF2P50TSC619	SF	2	P	50	TSC	61Y	Options/Modifications
Sample One Phase Model No. SF2P50TSC619	SRF	4	S	0.5	TC	1C6028	

AP20 Division 2 Hazardous location Class 1, DIV2, Groups A,B,C,D

AP25 China sourced Ultimate E brand

AP26 MT2 plant sourced

CRI Crusher Duty

A Frame Material:

- A, AA = Extruded aluminum
- AV = Alum 63 frame
- AP = Alum 71 frame
- AR = Alum 80 frame
- C = Cast iron
- M = Steel (encapsulated windings, 284T-445T frames)
- S = Steel (143T-449T frames)

Signature Series Motors

- SP = Steel (48 frames)
- SR = Steel (56 frames)
- SS = Steel (143T-215T frames)
- CC = Cast iron (143T and larger)

Enclosure (follows Frame Material*):

- A = TEAO
- B = TEBC
- D = ODP
- E = ODP-Encapsulated
- EW = Wash-Thru™ Motor
- F = TEFC
- RN = Steel TENV 48 frame
- N = TENV
- P = Severe Duty IEEE 841
- S = Severe Duty
- FW = TEFC, Washdown
- FX = TE, Explosion-proof
- NW = TENV, Washdown
- RA = TEAO, Steel
- NX = XP, TENV
- YF = TEFC, Metric
- PA = Steel 48 frame
- PN = Steel TENV 48 frame
- RN = Steel TENV 48 frame

B Number of Magnetic Poles: this leads to motor synchronous speed (rpm).

Poles	Speed 60 Hz	Speed 50 Hz
2	3600 RPM	3000 RPM
4	1800	1500
6	1200	1000
8	900	750

Single speed motors:

4 = 1800 (60 Hz) or 1500 (50 Hz)

Two speed motors:

2/4/1 = 3600 and 1800 (60 Hz), one winding

4/8/2 = 1800 and 900 (60 Hz), two windings

C Efficiency Level:

- B = Exceeds NEMA MG-1 Table 12-12
- G = Below NEMA MG-1 Table 12-11, GM7EQ
- P = Meets EPA Act, NEMA MG-1 Table 12-11 and GM-7EH.
- S, H = Below NEMA MG-1 Tables 12-11 and 12-12

D Horsepower:

Single speed motor examples: 0.25, 0.5, 1.5, 75, 800

Horsepower range example: 5-7 = 5 to 7

Two speed motor example:

10/2.5 = 10 HP high speed, 2.5 HP low speed



E NEMA Frame Series and Dimensions:

T or U = sets frame number and dimensions in accordance with NEMA T or U design standards for the motor's HP, speed and enclosure.
E = Metric design IEC

F Shaft and Mounting:

AD = Auger drive	R = Resilient mount
C = C-Face, B14	S = NEMA short shaft
D = D-Flange, B5	Y = special mounting
J = Jet Pump	(ie. extended thru-bolts)
JM = JM Pump Mount	Z = non-standard shaft
JP = JP Pump Mount	dimensions (-1, -2, -3, etc.
L = Locked bearing	will appear at the end of
N = No feet	the Model Number)

Double shaft motors are identified by two symbols, the first for the "normal drive end" and the second for the "opposite normal drive end": SD4B30TTM61Y and SD4P75TSTS61Y

Each end of the double shaft can have its own mounting: MD4S125TSCTSC61 and CS6P15TTMC61Y

Mounting symbols are listed in alphabetical order when more than one is specified: SSD2S25TJMN61

G Electrical Type (Single Phase Only):

1A = permanent split capacitor
 1B = capacitor start, capacitor run
 1C = capacitor start, induction run
 1N = split phase start, capacitor run
 1S = split phase

Frequency:

6₋ = 60 Hz and 5₋ = 50 Hz

Voltage:

The specific number has no significance. Lincoln will assign the next number in sequence to a new, previously unmanufactured voltage when it is ordered.

Commonly used voltage codes:

60 Hz		50 Hz
61 = 230/460 V	6026 = 208-230/460	51 = 220/380 V
62 = 200/400	6027 = 115/230	52 = 240/415
63 = 208	6028 = 115/208-230	53 = 230/400
64 = 460	6029 = 208-220/440	54 = 200/400
65 = 575		55 = 380
67 = 440		56 = 400
68 = 380		57 = 415
69 = 480		58 = 440
6003 = 220/380		59 = 220/440
6004 = 220/440		5001 = 190/380
6020 = 2300		5007 = 346
6021 = 4000		5012 = 550
6024 = 2300/4000		5014 = 380-415

Reduced Voltage Start Capability:

P = Part winding start (PWS)
 Y = Wye-delta start (YDS)
 PY = PWS and YDS

H Options/Modifications:

If a motor has more than one Option / Modification, the symbols will appear in alphabetical order.

AP1	CE Compliant Motor
AP5	Fire Pump certified
AP7	Farm Duty, High Torque
AP8	Farm Duty, Extra High Torque
AP9	Grain Stirring
AP10	PSC Variable Speed
AP11	PSC Variable Speed, expanded speed range
AP13	UL Listed Class 1 Groups C & D and Class 2 Groups F & G, thermostats
AP14	UL Listed Class 1 Groups C & D and Class 2 Groups F & G, auto reset thermal protector
AP15	UL Listed Class 1 Group D and Class 2 Groups F & G, thermostats
AP21	China Sourced
AP25	China Sourced Ultimate E
B	F-2 Mount
C ₋	Ceiling Mount - NEMA position follows "C"; 1-2
E3	Class H Insulation
E5	Class H Insulation & High Temperature Grease
F	Fungus Proofing (Tropicalization)
H4	Leads exit motor at 12 o'clock position
HS	Precision Dynamic Balance
HT1	Space Heater, 120V
HT2	Space Heater, 240 V
K	Omit Terminal Box
L ₋	Additional Lead Length - "L" followed by additional length in inches
MB3	Insulated bearings, both ends
MB6	Double sealed bearings, both ends
MK ₋	Brake installed on motor
Q1	VTAC® Inverter Duty Motor
Q10	CTAC® Inverter Duty Motor with provision for mounting feedback device
Q15	CTAC Inverter Duty Motor with factory installed Dynapar 625 1024 ppr encoder
Q15 ₋	CTAC Inverter Duty Motor with factory installed encoder - letter following "Q15" represents brand and ppr rating of encoder, A through S.
Q20	CTAC Inverter Duty motor without provision for mounting feedback device
Q40	CTAC Inverter Duty Motor without provision for mounting feedback device
QS10	Crop dryer (single phase, auto reset)
QS11	Crop dryer (single phase, thermostats)
QS12	Crop dryer (three phase, thermostats)
RB	Roller bearing on drive end
T1	Thermostats, Class F, 3 in series
TD1,2	RTD - Winding, 100 Ω platinum
TD4	RTD - Winding, 10 Ω copper
TD6	RTD - Winding, 120 Ω nickel
TP1	Overload protection, manual reset
TP2	Overload protection, auto reset
TX1	Thermistors, 3 in series
W ₋	Wall Mount - W followed by NEMA position number, 1-8
X ₋	Paint color deviation



Single Phase ODP Motors

Single Phase Motors – General Purpose – Drip-Proof – 115/208-230V

Rigid Mount – 1/12 HP – 10 HP – Frame sizes - 42 – 215T

Resilient Base Mount – ¼ HP – 2 HP – Frame sizes – 48 - 56



- Durable rolled steel construction
- NEMA design B performance
- Meets or exceeds NEMA service factors
- Double shielded ball bearings
- Continuous duty
- Thermally protected ratings
- UL recognized component listing and CSA certified
- 1-year warranty on general purpose motors
- 3-year warranty on Premium efficient motors

Applications:

- For use where water and dust exposure is minimal. Ideally suited for use on pumps, compressors, blowers, fans and other standard industrial applications



Single Phase – Drip-Proof – Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over-load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes	
1/4	1800	48	101423.00	√	384	M4C17DB33	16	115/208-230	Man.	2.7	1.35	8.87	S, MX	
	1800	48	100115.00	√	318	A4C17DB1	16	115/208-230	Auto.	2.7	1.35	8.87	S, MX	
	1800	S56	100000.00	√	363	A4C17DH1	17	115/208-230	Auto.	2.7	1.35	9.24	S, MX	
	1800	S56	LM24457	D	376	SPD4S0.25T1C6028	17	115/208-230	None	2.5	1.35	9.84	S, MX	
1/3	3600	S56	100336.00	D	297	C4C34DH11	26	115/208-230	None	2.8	1.35	8.99	S, MX	
	3600	S56	E100336.00	√	381	C4K34DH6	29	115/208-230	None	1.5	1.35	10.09	S, MX, 53	
	1800	48	100116.00	√	363	A4C17DB2	17	115/208-230	Auto.	3.3	1.35	8.87	S, MX	
	1800	S56	100006.00	D	377	C4C17DH7	18	115/208-230	None	3.3	1.35	9.24	S, MX	
	1800	S56	E100006.00	√	485	C4K17DH5	19	115/208-230	None	1.9	1.35	10.97	S, MX, 53	
	1800	S56	LM24570	D	393	SRD4S0.33TICC6028	18	115/208-230	None	3.2	1.35	9.24	S, MX	
	1800	S56	100588.00	D	430	M4C17DH46	18	115/208-230	Man.	3.3	1.35	9.24	S, MX	
	1800	S56	LM24550	√	447	SRD4S0.33T1C6028TP1	18	115/208-230	Man.	3.2	1.35	10.22	S, MX	
	1800	S56	100001.00	√	428	A4C17DH2	18	115/208-230	Auto.	3.3	1.35	9.24	S, MX	
	1200	56	110001.00	D	541	C6C11DB1	29	115/208-230	None	3.9	1.35	10.88	S, US	
	1200	56	E110001.00	√	659	C4K11DH1	32	115/208-230	None	1.7	1.35	11.38	S, MX, 53	
	1/2	3600	48	100184.00	D	328	C4C34DB1	19	115/208-230	None	3.4	1.25	9.62	S, MX
3600		48	E100184.00	√	410	4K34DB1	29	115/208-230	None	2.2	1.25	10.59	S, MX, 53	
3600		48	LM24465	D	341	SPD2S0.5T1C6028	18	115/208-230	None	4.4	1.25	10.34	S, MX	
3600		S56	100337.00	√	328	C4C34DH12	20	115/208-230	None	3.4	1.25	9.99	S, MX	
3600		S56	E100337.00	√	421	C4K34DH5	21	115/208-230	None	2.2	1.25	10.97	S, MX, 53	
3600		S56	100052.00	√	355	M4C34DH2	21	115/208-230	Man.	3.4	1.25	9.99	S, MX	
1800		48	100338.00	D	458	C4C17DB12	20	115/208-230	None	4.4	1.25	9.62	S, MX	
1800		48	E100338.00	√	532	C4K17DB5	30	115/208-230	None	2.3	1.25	11.06	S, MX, 53	
1800		S56	100007.00	√	414	C4C17DH8	21	115/208-230	None	4.4	1.25	9.99	S, MX	
1800		S56	E100007.00	√	532	C4K17DH6	30	115/208-230	None	2.3	1.25	11.47	S, MX, 53	
1800		S56	LM24551	D	432	SRD4S0.5T1C6028	22	115/208-230	None	4.3	1.25	11.72	S, MX	
1800		S56	100004.00	√	507	M4C17DH5	21	115/208-230	Man.	4.4	1.25	9.99	S, MX	
1800		S56	100002.00	√	482	A4C17DH3	20	115/208-230	Auto.	4.4	1.25	9.99	S, MX	
1800		S56	LM24552	D	505	SRD4S0.5T1C6028TP2	22	115/208-230	Auto.	4.3	1.25	11.72	S, MX	
1200		56	110002.00	D	817	C6C11DB2	32	115/208-230	None	5.0	1.25	11.38	S, US	
1200		56	E110002.00	√	997	C6K11DB5	33	115/208-230	None		1.25		S, MX, 53	
3/4		3600	S56	100340.00	D	400	C4C34DH13	24	115/208-230	None	4.9	1.25	10.49	S, MX
		3600	S56	E100340.00	√	503	C4K34DH4	31	115/208-230	None	3.6	1.25	11.47	S, MX, 53
	3600	S56	LM24674	D	419	SRD2S0.75T1C6028	21	115/208-230	None	4.8	1.25	10.97	S, MX	
	3600	S56	100053.00	√	447	M4C34DH3	24	115/208-230	Man.	4.9	1.25	10.49	S, MX	
	1800	S56	100008.00	D	511	C4C17DH9	26	115/208-230	None	5.4	1.25	10.99	S, MX	
	1800	56	E119348.00	√	614	C6K17DB51	27	115/208-230	None	3.3	1.25	11.13	S, MX, 53	
	1800	S56	LM24502	D	534	SED4S0.75T1B6028	26	115/208-230	None	5.5	1.25	11.47	S, MX	
	1800	S56	100005.00	√	605	M4C17DH6	25	115/208-230	Man.	5.4	1.25	10.99	S, MX	
	1800	S56	LM24504	D	669	SRD4S0.75T1B6028TP1	18	115/208-230	Man.	5.5	1.25	11.47	S, MX	
	1800	S56	101544.00	C/A	646	M4K17DH2	28	115/208-230	Man.	4.0	1.25	11.24	S, MX	
	1800	S56	100003.00	√	589	A4C17DH4	25	115/208-230	Auto.	5.4	1.25	10.99	S, MX	
	1800	S56	LM24503	D	616	SRD4S0.75T1B6028TP2	25	115/208-230	Auto.	5.5	1.25	11.47	S, MX	
	1200	56H	110003.00	D	921	C6C11DB3	44	115/208-230	None	6.4	1.15	12.88	S, US	
	1200	56H	E110003.00	√	1040	C6K11DB6	45	115/208-230	None		1.15		S, US, 53	

Green items are Premium Efficient
 "E" prefix items comply with SMR 2015

* F.L. Amps at 208V

▼ LM Numbers are Lincoln Models

D - Item to be discontinued once inventory is depleted

C/A - Check Availability

Specifications are subject to change without notice

♥ Note listing on inside back flap

Please view our on-line catalog for updated information that was unavailable at the time of this printing.

Continued on next page

View On-line Technical Information



Single Phase ODP Motors

Single Phase TEFC Motors

Single Phase C Face Motors

Three Phase ODP Motors

Three Phase TEFC Motors

Three Phase C Face Motors

Inverter Duty Motors

Severe Duty Motors

Single Phase ODP Motors



Capacitor Start – General Purpose

Single Phase – Drip-Proof – Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over-load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes		
1	3600	56	110360.00	D	421	C6C34DB19	28	115/208-230	None	6.0	1.25	10.84	S, US		
		56	E110360.00	✓	541	C6K34DB31	29	115/208-230	None		1.25		S, US, 53		
		56	110097.00	✓	462	M6C34DB3	28	115/208-230	Man.	6.0	1.25	10.84	S, US		
	1800	56	110004.00	D	557	C6C17DB2	28	115/208-230	None	6.4	1.15	10.88	S, US		
		56	E110004.00	✓	706	C6K17DB52	29	115/208-230	None	4.2	1.15	12.38	S, US, 53		
		56	LM24580	D	582	SRD4SITIC6028TP1	20	115/208-230	None	6.7	1.15	11.44	S, MX		
		56	110167.00	✓	654	M6C17DB7	30	115/208-230	Man.	6.4	1.15	10.88	S, US		
		56	LM24582	D	684	SRD4S1T1C6028TP1	29	115/208-230	Man.	6.7	1.15	11.44	S, MX		
		56	113630.00	✓	701	M6K17DB33	31	115/208-230	Man.	5.3	1.15	10.88	S, US, 53		
		56	110000.00	✓	630	A6C17DB1	28	115/208-230	Auto.	6.4	1.15	10.88	S, US		
		143T	120044.00	✓	622	C143C17DB3	38	115/208-230	None	6.4	1.15	11.13	S, US		
		143T	120003.00	✓	654	M143C17DB2	33	115/208-230	Man.	6.4	1.15	11.13	S, US		
	143T	120000.00	✓	653	A143C17DB1	32	115/208-230	Auto.	6.4	1.15	11.13	S, US			
	1 1/2	3600	56	110361.00	D	596	C6C34DB20	29	115/208-230	None	8.2	1.15	10.84	S, US	
			56	E110361.00	✓	754	C6K34DB32	30	115/208-230	None		1.15		S, US, 53	
			56	110110.00	✓	605	M6C34DB4	28	115/208-230	Man.	8.2	1.15	10.84	S, US	
			56	113631.00	✓	613	M6K34DB15	36	115/208-230	Man.	6.2	1.15	11.34	S, US, 53	
			143T	120107.00	C/A	596	C143C34DB1	32	115/208-230	None	8.2	1.15	11.28	S, US	
1800		56H	110005.00	D	724	C6K17DB1	37	115/208-230	None	8.6	1.15	11.84	S, US, 53		
		56H	E110005.00	✓	916	C6K17DB53	38	115/208-230	None	6.5	1.15	13.28	S, US, 53		
		56H	LM24583	D	758	SRD4S1.5T1C6028	40	115/208-230	None	9.0	1.15	12.44	S, MX		
		56H	110006.00	✓	789	P6K17DB2	38	115/208-230	Man.	8.6	1.15	11.84	S, US, 53		
		56H	113266.00	✓	817	M6K17DB30	42	115/208-230	Man.	6.7	1.15	12.38	S, US, 53		
		145T	120042.00	✓	687	C145K17DB5	38	115/208-230	None	8.6	1.15	12.28	S, US, 53		
		145T	LM24687	✓	721	SSD4S1.5T1C6028	41	115/208-230	None	9.0	1.15	12.44	S, MX		
1800	145T	120004.00	✓	873	P145K17DB3	40	115/208-230	Man.	8.6	1.15	12.28	S, US, 53			
	145T	120001.00	✓	873	U145K17DB1	40	115/208-230	Auto.	8.6	1.15	12.28	S, US, 53			

2	3600	56	110363.00	D	789	C6C34DB22	37	115/208-230	None	10.0	1.15	11.84	S, US		
		56	E110363.00	✓	989	C6K34DB33	38	115/208-230	None		1.15		S, US, 53		
		56	110362.00	D	822	P6C34DB21	38	115/208-230	Man.	10.0	1.15	12.34	S, US		
		56	113632.00	✓	828	P6K34DB16	38	115/208-230	Man.	8.6	1.15	11.34	S, US, 53		
		145T	120106.00	✓	849	C145C34DB3	40	115/208-230	None	10.0	1.15	12.28	S, US		
	1800	56H	116704.00	✓	873	P6K17DB47	45	115/208-203	Man.	8.6	1.15	12.88	S, US, 53		
		145T	120067.00	✓	820	C145K17DB9	42	115/230	None	10.5	1.15	13.28	S, US, 53		
		145T	LM24677	✓	858	SSD4S2T1B6028	49	115/208-230	None	10.5	1.15	13.49	S, MX, 53		
		145T	120879.00	✓	918	P145K17DB38	51	115/208-230	Man.	8.6	1.15	13.31	S, US, 53		
		182T	131515.00	✓	849	C182C17DB8	56	115/208-230	None	12.4	1.15	13.19	S, MX		
		182T	131536.00	✓	909	P182C17DB10	63	115/208-230	Man.	12.4	1.15	13.19	S, MX		
		182T	131535.00	✓	904	U182C17DB9	63	115/208-230	Auto.	12.4	1.15	13.19	S, MX		

Green items are Premium Efficient "E" prefix items comply with SMR 2015

Continued on next page

* F.L. Amps at 208V

♥ Note listing on inside back flap

▼ LM Numbers are Lincoln Models

D - Item to be discontinued once inventory is depleted

C/A - Check Availability

Specifications are subject to change without notice

Please view our on-line catalog for updated information that was unavailable at the time of this printing.



View On-line Technical Information



Single Phase ODP Motors

Capacitor Start – General Purpose

Single Phase – Drip-Proof – Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
3	3600	56H	116706.00	✓	880	M6C34DB75	39	230	Man.	15.0	1.00	12.38	S, US
	3600	182T	131636.00	✓	977	C182K34DB3	74	115/208-230	None	14.0	1.15	14.18	S, MX, 53
	1800	184T	131534.00	✓	919	C184C17DB19	69	115/230	None	16.9	1.15	14.19	S, MX
	1800	184T	131561.00	✓	1087	P184C17DB21	76	115/230	Man.	16.9	1.15	14.19	S, MX
	1800	184T	131851.00	C/A	1086	C184K17D0B40	72	208-230	Man.	13.7	1.15	15.22	S, MX, 53
	1800	184T	131530.00	✓	1087	U184C17DB20	69	115/230	Auto.	16.9	1.15	14.19	S, MX
5	3600	56H	116708.00	✓	900	P6K34DB26	45	230	Man.	20.8	1.00	13.34	S, US, 53
	3600	184T	131616.00	✓	1162	C184K34DB3	84	208-230	None	22.0	1.15	14.69	S, MX, 53
	3600	184T	LM24681	C/A	1191	SS184D2S5T1C6008	78	208-230	None	24.0	1.15	14.72	S, MX, 53
	1800	184T	131537.00	✓	1103	C184K17DB31	83	208-230	None	21.0	1.15	14.69	S, MX, 53
	1800	184T	LM24682	✓	1127	SSD4S5T1B6008	87	208-230	None	21.0	1.15	15.72	S, MX, 53
	1800	184T	131560.00	✓	1103	C184K17DB32	82	208	None	23.2*	1.15	14.69	S, MX, 53
7 1/2	1800	184T	131622.00	✓	1319	P184K17DB33	82	208-230	Man.	21.0	1.15	14.69	S, MX, 53
	3600	184T	132044.00	✓	1062	C184K34DB8	110	208-230	Tstat	31.0	1.15	16.69	S, MX, 53
	3600	213T	140680.00	✓	1794	C213K34DB1	112	208-230	None	29.5	1.15	16.55	S, MX, 53
	1800	215T	140155.00	✓	1566	C215K17DB2	113	230	None	36.0	1.15	17.26	S, MX, 53
10	1800	215T	LM24683	✓	1652	SS15D4S7.5T1B6008	118	208-230	None	34.5	1.15	18.05	S, MX, 53
	3600	215T	140681.00	✓	2268	C215K34DB1	135	208-230	None	37.0	1.15	18.05	S, MX, 53
	1800	215TZ	140311.00	✓	2289	C215K17DB4	140	230	None	43.0	1.25	19.76	S, MX, 53
1800	215	LM24684	✓	2345	SSD4S10T1B6008	140	208-230	None	44.0	1.15	19.29	S, MX, 53	

* F.L. Amps at 208V

▼ LM Numbers are Lincoln Models

C/A - Check Availability

Specifications are subject to change without notice

♥ Note listing on inside back flap

View On-line Technical Information



Tech Information

Single Phase
ODP Motors

Single Phase
TEFC Motors

Single Phase
C Face Motors

Three Phase
ODP Motors

Three Phase
TEFC Motors

Three Phase
C Face Motors

Inverter Duty
Motors

Severe Duty
Motors

Single Phase ODP Motors

Wattsaver® Premium Efficiency Fan Motors



Features Include:

- Premium Efficient
- Class F insulation
- Terminal boards
- Shielded ball bearings

Single Phase – Drip-Proof – Resilient Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over-load Prot.	F. L. Amps @ 115 V	Service Factor	% F. L. Eff.	"C" Dim. (Inches)	♥ Notes
1/4	1800	48	101602.00	√	406	A4K17DR7	19	115	Auto.	2.5	1.35	71.0	10.39	S, MX, 32, 53
1/3	1800	48	101405.00	√	480	A4K17DR5	19	115	Auto.	3.2	1.35	75.0	10.39	S, MX, 32, 53
1/2	1800	48	101585.00	√	549	A4K17DR6	25	115	Auto.	4.6	1.35	76.0	11.39	S, MX, 32, 53

Green items are Premium Efficient

♥ Note listing on inside back flap

Specifications are subject to change without notice



View On-line Technical Information





Single Phase ODP Motors

Compressor Duty Motors – Compressor – Pump and Fan & Blower Duty

General Specifications:

Motors designed for air compressor, pump, fan and blower duty applications which require high breakdown torque and rugged mechanical construction.

Mechanical Features:

- Double shielded ball bearings
- Designed for belted loads

Electrical Features:

- High efficient copper windings
- High starting and breakdown torque
- Dual rotation

Single Phase – Drip-Proof – Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over-load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥ Notes
1	3600	56	110160.00	✓	445	M6C34DB6	27	115/230	Man.	6.7	SPEC	11.38	S, US
	1800	143T	120044.00	✓	606	C143C17DB3	38	115/208-230	None	6.4	1.15	11.28	S, US
	1800	143T	120003.00	✓	637	M143C17DB2	33	115/208-230	Man.	6.4	1.15	11.13	S, US
1 1/2	3600	56	110161.00	✓	488	P6C34DB7	33	115/230	Man.	10.0	SPEC	11.88	S, US
	1800	145T	120042.00	✓	669	C145K17DB5	38	115/208-230	None	8.6	1.15	12.28	S, US, 53
	1800	145T	LM24687	C/A	702	SSD4S1.5T1C602	41	115/208-230	None	8.6	1.15	12.49	S, US
	1800	145T	120004.00	✓	850	P145K17DB3	40	115/208-230	Man.	8.6	1.15	12.28	S, US, 53
2	3600	56	110232.00	✓	509	M6C34DB11	33	115/230	Man.	11.0	SPEC	11.88	S, US
	1800	182T	131515.00	✓	827	C182C17DB8	56	115/208-230	None	12.4	1.15	13.19	S, MX
	1800	182T	131536.00	✓	885	P182C17DB10	63	115/208-230	Man.	8.8	1.15	10.66	S, MX
3	3600	56Y	110222.00	✓	571	M6C34DB13	38	230	Man.	15.0	1.15	12.38	S, US, 36
	1800	184T	131534.00	✓	895	C184C17DB19	69	115/230	None	16.9	1.15	14.19	S, MX
5SPL	3600	56	116523.00	✓	688	P6K34DB22	35	208-230	Man.	15.0	1.00	11.44	S, US, 53, □
5	3600	56Y	111275.00	✓	710	P6K34DB5	44	230	Man.	20.8	1.00	13.34	S, US, 36, 53
	3600	56Y	116789.00	✓	731	P6K34DB27	45	230	Man.	20.8	1.00	12.38	S, US, 10, 53
	3600	145T	120554.00	✓	718	P145K34DB1	46	230	Man.	20.8	1.00	13.12	S, US, 53
	1800	184T	131537.00	✓	1074	C184K17DB31	83	230	None	21.0	1.15	14.69	S, MX, 53
	1800	184T	LM24682	✓	1097	SSD4S5T1B600	87	208-230	None	21.0	1.15	14.69	S, MX, 53
	1800	184T	131622.00	✓	1284	P184K17DB33	82	230	Man.	21.0	1.15	14.69	S, MX, 53
7 1/2	3600	184T	132044.00	✓	1034	C184K34DB8	110	208-230	Tstat	31.0	1.15	16.69	S, MX, 53
	3600	213T	140680.00	✓	1747	C213K34DB1	112	208-230	None	29.5	1.15	16.55	S, MX, 53
	1800	215T	140155.00	✓	1525	C215K17DB2	113	230	None	36.0	1.15	17.26	S, MX, 53
	1800	215T	LM24683	✓	1609	SS215D4S7.5T1B600	118	208-230	None	36.0	1.15	17.26	S, MX, 53
10	3600	215T	140681.00	✓	2208	C215K34DB1	135	208-230	None	37.0	1.15	18.05	S, MX, 53
	1800	215TZ	140311.00	✓	2229	C215K17DB4	140	230	None	43.0	1.25	19.76	S, MX, 53
	1800	215TZ	LM24684	✓	2283	SSD4S10T1B600	140	208-230	None	43.0	1.15	19.76	S, MX, 53

▼ LM Numbers are Lincoln Models

♥ Note listing on inside back flap

C/A - Check Availability

□ - Note: 3HP Continuous duty and 5HP Breakdown torque

Specifications are subject to change without notice

View On-line Technical Information



Tech Information

Single Phase ODP Motors

Single Phase TEFC Motors

Single Phase C Face Motors

Three Phase ODP Motors

Three Phase TEFC Motors

Three Phase C Face Motors

Inverter Duty Motors

Severe Duty Motors

Single Phase ODP Motors

Pressure Washer Pump Motors



General Specifications:

Motors specially suited for hot or cold pressure washer applications and other single phase installations requiring minimum starting and running amperages. Capacitor start, capacitor run construction for reduced amperage.

Mechanical Features:

- Double shielded ball bearings
- Dynamically balanced rotors

Electrical Features:

- Windings dipped in heavy duty varnish system
- Capacitor start / capacitor run designs to reduce amp draw
- Manual reset overload protection
- High service factor

Single Phase – Drip-Proof – Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over-load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥ Notes
3/4	3600	S56	100053.00	✓	435	M4C34DH3	24	115/208-230	Man.	4.9	1.25	10.49	S, MX
	1800	S56	101544.00	C/A	629	M4K17DH2	28	115/208-230	Man.	4.0	1.25	11.24	S, MX, 53
1	3600	56	110097.00	✓	450	M6C34DB3	27	115/208-230	Man.	6.0	1.25	10.84	S, US
	1800	56	113630.00	✓	683	M6K17DB33	31	115/208-230	Man.	5.3	1.15	10.84	S, US, 53
1 1/2	3600	56	113631.00	✓	597	M6K34DB15	36	115/208-230	Man.	6.2	1.15	11.34	S, US, 53
	1800	56H	113266.00	✓	796	M6K17DB30	42	115/208-230	Man.	6.7	1.15	12.38	S, US, 6, 53
	1800	145T	120004.00	✓	850	P145K17DB3	40	115/208-230	Man.	8.6	1.15	12.28	S, US, 53
2	3600	56	113632.00	✓	806	P6K34DB16	36	115/208-230	Man.	8.6	1.15	11.34	S, US, 53
	1800	56H	116704.00	✓	850	P6K17DB47	45	115/208-230	Man.	8.6	1.15	12.88	S, US, 6, 53
	1800	145T	120879.00	✓	894	P145K17DB38	53	115/208-230	Man.	8.6	1.15	13.31	S, US
3	3600	56H	116706.00	✓	857	M6C34DB75	39	230	Man.	15.0	1.00	12.38	S, US, 6, 53
	1800	184T	131851.00	C/A	1057	184TBDR7675	72	208-230	Man.	13.7	1.15	15.22	S, MX, 9
5	3600	56H	116708.00	✓	876	P6K34DB26	45	230	Man.	20.8	1.00	13.34	S, US, 6, 53
	1800	184T	131622.00	✓	1284	P184K17DB33	82	208-230	Man.	21.0	1.15	14.69	S, MX

C/A - Check Availability

♥ Note listing on inside back flap

Specifications are subject to change without notice



View On-line Technical Information



Single Phase ODP Motors

Resilient Base Motors – General Purpose or Fan Duty

General Specifications:

- Industrial quality resilient base
- Moderate starting torque
- Belt driven fans or fan on shaft applications
- Self ventilated designs

Drip-Proof – Single Phase – Resilient Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over-load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥ Notes
1/4	3600	48	101434.00	✓	312	A4C34DR8	16	115/208-230	Auto.	2.0	1.00	9.39	S, MX
	1800	48	100109.00	✓	366	A4C17DR1	17	115/208-230	Auto.	2.7	1.35	9.89	S, MX
	1800	48	100111.00	✓	316	A4C17DR3	17	115/208-230	Auto.	2.7	1.00	9.89	S, MX
	1800	48	102963.00	C/A	366	A4C17DR47	17	277	Auto.	2.2*	1.35	9.89	S, MX
1/3	3600	48	101431.00	✓	320	A4C34DR11	17	115/208-230	Auto.	2.3	1.00	9.39	S, MX
	1800	48	100110.00	✓	447	A4C17DR2	18	115/208-230	Auto.	3.3	1.35	9.89	S, MX
	1800	48	101015.00	✓	366	A4C17DR31	18	115/208-230	Auto.	3.3	1.00	9.89	S, MX
	1800	S56	100014.00	✓	421	C4C17DJ5	19	115/208-230	None	3.3	1.35	10.31	S, MX
	1800	S56	100010.00	✓	447	A4C17DJ2	18	115/208-230	Auto.	3.3	1.35	10.31	S, MX
	1800	S56	100063.00	✓	366	A4C17DJ9	19	115/208-230	Auto.	3.3	1.00	10.31	S, MX
	1800	S56	102964.00	✓	447	A4C17DJ72	18	277	Auto.	2.8*	1.35	10.31	S, MX
	1/2	3600	48	101432.00	✓	353	A4C34DR10	20	115/208-230	Auto.	3.4	1.00	9.89
1800		S56	100015.00	✓	454	C4C17DJ6	21	115/208-230	None	4.4	1.25	10.81	S, MX
1800		S56	100045.00	✓	435	M4C17DJ17	20	115/208-230	Man.	4.4	1.00	10.81	S, MX
1800		S56	101611.00	✓	481	A4C17DJ57	22	115/208-230	Auto.	4.4	1.25	10.81	S, MX, 32
1800		S56	100011.00	✓	481	A4C17DJ3	22	115/208-230	Auto.	4.4	1.25	10.81	S, MX
1800		S56	100064.00	✓	437	A4C17DJ10	20	115/208-230	Auto.	4.4	1.00	10.81	S, MX
1800		S56	102965.00	✓	481	A4C17DJ74	22	277	Auto.	3.7*	1.25	10.81	S, MX
3/4		3600	48	101433.00	✓	416	A4C34DR9	22	115/208-230	Auto.	4.8	1.00	10.39
	3600	S56H	100603.00	✓	443	A4C34DJ7	26	115/208-230	Auto.	4.9	1.25	11.31	S, MX
	1800	S56H	100016.00	✓	570	C4C17DJ7	26	115/208-230	None	5.4	1.25	11.81	S, MX
	1800	S56H	100046.00	✓	595	M4C17DJ18	26	115/208-230	Man.	5.4	1.25	11.81	S, MX
	1800	S56H	100047.00	✓	498	M4C17DJ19	25	115/208-230	Man.	5.5	1.00	11.81	S, MX
	1800	S56H	101839.00	✓	595	A4C17DJ67	28	115/208-230	Auto.	5.4	1.25	11.81	S, MX, 32
	1800	S56H	100012.00	✓	595	A4C17DJ4	26	115/208-230	Auto.	5.4	1.25	11.81	S, MX
	1800	S56H	100065.00	✓	493	A4C17DJ11	25	115/208-230	Auto.	5.5	1.00	11.81	S, MX
	1800	S56H	102966.00	✓	595	A4C17DJ73	26	277	Auto.	4.5*	1.25	11.81	S, MX
	1	3600	56H	110478.00	✓	511	A6C34DR6	28	115/208-230	Auto.	6.0	1.25	11.85
1800		56H	113027.00	✓	620	C6C17DR37	30	115/208-230	None	6.4	1.15	11.81	S, US
1800		56H	110007.00	✓	645	A6C17DR1	29	115/208-230	Auto.	6.4	1.15	11.81	S, US
1800		56H	110054.00	✓	630	A6C17DR2	32	115/208-230	Auto.	6.4	1.00	11.81	S, US
1800		56H	116599.00	✓	645	A6C17DR54	29	277	Auto.	5.4*	1.20	11.82	S, US
1 1/2	3600	56H	110479.00	✓	657	A6C34DR7	30	115/230	Auto.	8.2	1.15	11.82	S, US
	1800	56H	110579.00	✓	780	A6K17DR6	38	115/208-230	Auto	7.2	1.15	12.82	S, US, 6, 53
	1800	56H	116600.00	C/A	780	A6K17DR41	38	277	Auto	6.0*	1.15	12.82	S, US
2	3600	56H	113633.00	C/A	823	U6C34DR21	38	115/208-230	Auto.	10.0	1.15	13.82	S, US
	1800	56H	113608.00	✓	831	A6K17DR28	45	115/208-230	Auto.	10.0	1.15	13.81	S, US, 6, 53
	1800	56H	116601.00	✓	831	A6K17DR42	45	277	Auto.	8.7*	1.15	13.82	S, US

* F.L. Amps at 277V

♥ Note listing on inside back flap

Specifications are subject to change without notice

View On-line Technical Information



Tech Information

Single Phase ODP Motors

Single Phase TEFC Motors

Single Phase C Face Motors

Three Phase ODP Motors

Three Phase TEFC Motors

Three Phase C Face Motors

Inverter Duty Motors

Severe Duty Motors