



October 1, 2020

To our valued customers,

More than 100 years ago, we set out to “build a better motor,” and that is still our goal today.

We come from a long history of innovators and entrepreneurs that created solutions for their communities and industries. That tradition continues as we enter a second century with investments in revolutionary designs, technologies, processes and tools. All to build a better motor.

We can see the next century. It’s right at our fingertips, and it’s exciting. We like to use the word “transformative” to describe the way we are designing and building our motors to the way they are ordered and received.

As we continue to evolve and innovate in order to take care of our customers, there are two things that will not change:

- Our **mission** is to be the best, as determined by our customers, marketers, designers and manufacturers of industrial electric motors.
- We want to provide you more **perceived value** than you get from other motor manufacturers.

$$V_p = \frac{Q_p \times S_p^{\circledR}}{C \times T}$$

Thank you for being part of our journey, and thank you for allowing us to be a part of yours. We look forward to remaining your industrial motor partner for many years to come.

*Jesse*

Jesse Henson  
Head of global NEMA motors  
Head of US Motors and Generators Division



- **1920** – Edwin Ballman and Emil Doerr founded Baldor Electric Company in St. Louis, MO



- **1976** – Baldor was recognized by the Federal Agency Administration for design and manufacture of high efficiency motors
- **1978** – Baldor produced its 1 millionth motor

Our **mission** is to be the best, as determined by our customers, marketers, designers and manufacturers of industrial electric motors.

- You determine what is best
- You grade our papers every day
- We will continue to work with customers to determine the motors they, and the industry, need.
- We want to design and build our own motors
- We want to provide you with the most preferred industrial motors

1900

1910

1920

1930

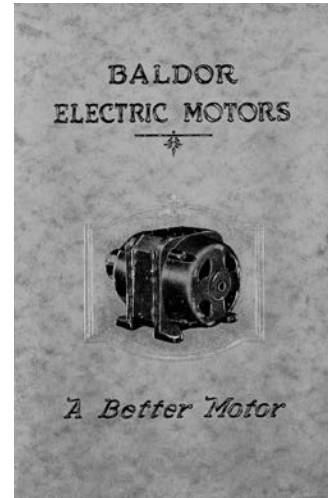
1940

1950

1960

1970

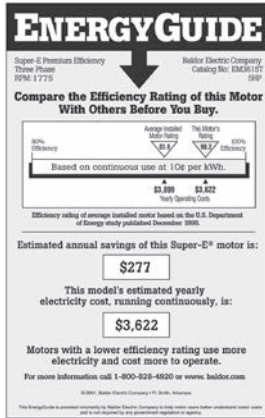
- **1904** – Lincoln Electric was formed and later became Reliance Electric
- **1905** – Lincoln Electric introduced the first adjustable speed DC motor



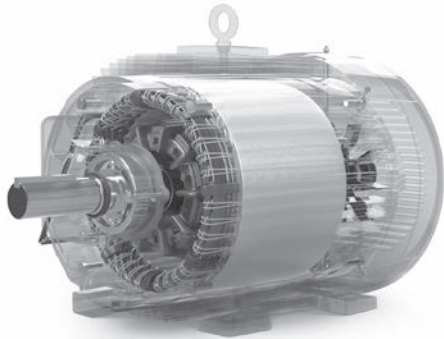
- **1956** – Baldor opened its first AC motor plant in Fort Smith, AR



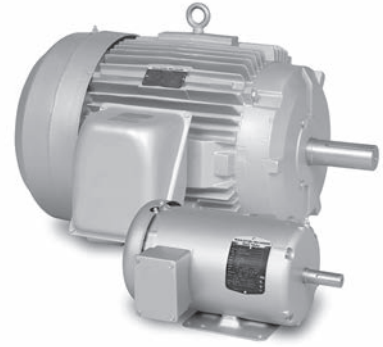
- **1980** – The Mission Statement and Value Formula were introduced
- **1983** – The Super-E® premium efficient motor line was introduced



- **2011** – Baldor joined the ABB family, creating the largest industrial motor company in the world
- **2020** – The EC Titanium™ IE5 integrated motor drive was introduced



1980  
1990  
2000  
2010  
2020



- **2001** – Baldor introduced the EnergyGuide label to the industrial motor market
- **2007** – Reliance® joined the Baldor family
- **2017** – ABB Ability™ smart sensor for motors was introduced
- **2018** – Food Safe motors were introduced



**The years ahead** – The investments are being made, the tools are being implemented.

The next 100 years will bring a more innovative way of marketing, designing and manufacturing industrial electric motors.

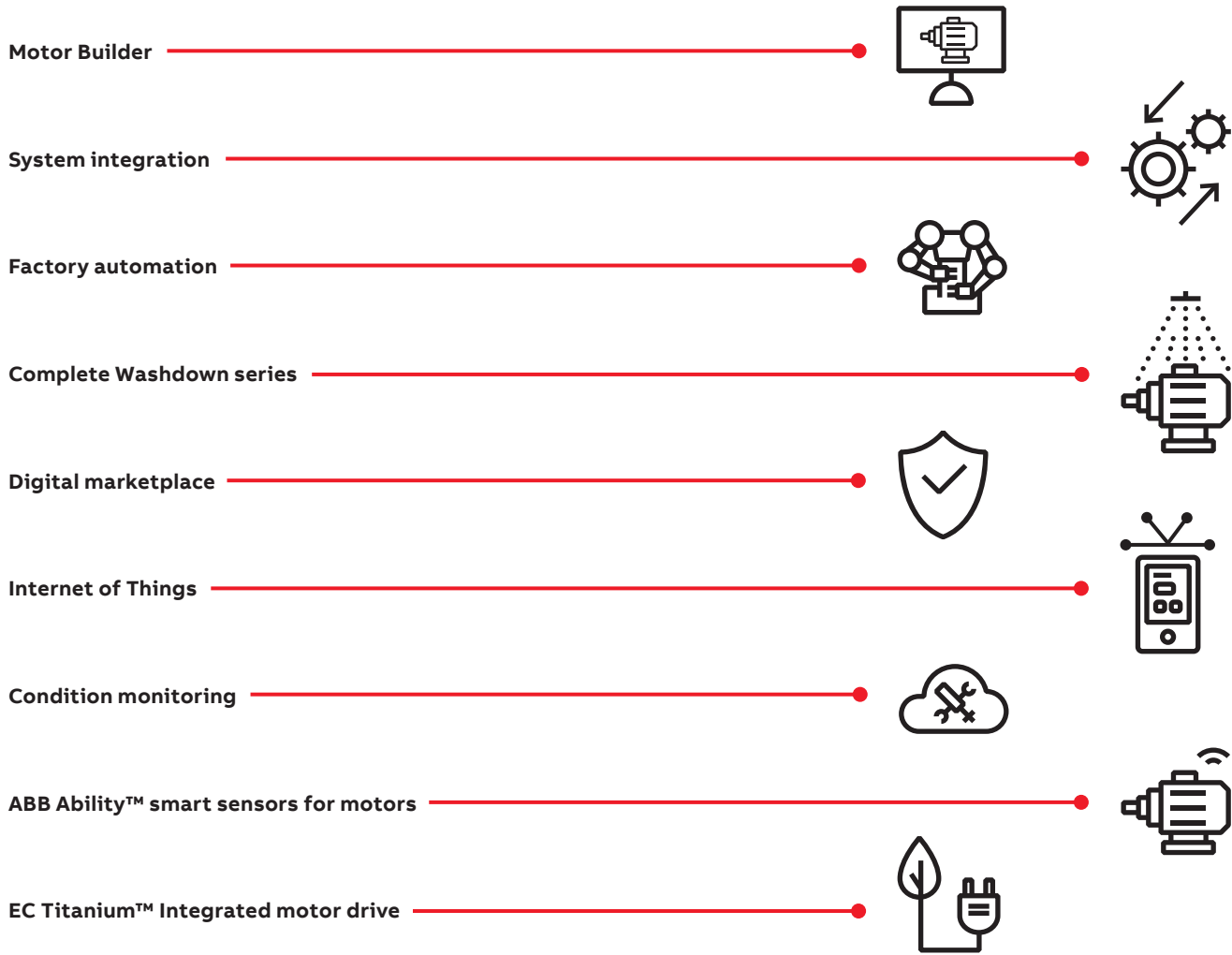
We want to provide you more **perceived value** than you get from other motor manufacturers.

- Q** The motor you receive should perform exactly as you expect it to. We do that with a clear understanding of your needs, well-engineered designs, and advanced operational technologies and processes.
- S** We offer 24/7 local sales support, information, inventory, and technical support.
- C** A reliable, efficient and safe motor reduces the lifetime cost of your processes and equipment.
- T** Receive information, support and your motor where and when you want it.

$$V_p = \frac{Q_p \times S_p}{C \times T}$$

Information  
Single phase  
General purpose  
Severe duty  
Large AC  
Washdown duty  
Explosion proof  
Pump  
HVAC  
Farm duty

## Innovation beyond the motor



## Featured in this catalog

**EC Titanium™ Integrated motor drive**  
Beyond IE5 efficiency (Variable Speed AC section)



**Complete Washdown series of motors**  
(Washdown duty section)



**ABB Ability™ smart sensor for motors**  
(Motor ModExpress® section)



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Pricing and data subject to change without notice.



## Catalog notes

Customers have easy access to additional data and information by visiting [new.abb.com/motor-generators](http://new.abb.com/motor-generators) or [baldor.com](http://baldor.com).

- Local sales offices
- Authorized distributors
- Sales terms & conditions
- Freight policy
- Warranty information
- Authorized service centers
- Product literature
- Energy efficiency
- Performance data
- Connection diagrams
- Dimension sheets
- Installation manuals
- Renewal parts
- Customer product education

### 501 catalog notes:

**Efficiencies** – Efficiencies of all 60 Hz motor designs are listed as NEMA nominal at full load (Except the motors designed to meet the Small Motor Rule average efficiencies as specified by the DOE).

**Full Load Amps (FLA)** – For low voltage amps, double high voltage amps shown, excluding medium voltage amps for 2300/4000 voltage.

**Motor bearings** – Motors with ball bearings are suitable for coupled loads. If a load is belted, a roller bearing may be required, contact your local sales office if you have questions or need assistance.

**Service factor** – NEMA T-frames in TEFC construction have a service factor of 1.15 or greater except where noted. All NEMA U-frame TEFC motors (except explosion-proof) have NEMA open service factors. Fractional horsepower TEFC motors have NEMA open service factors. All Inverter Duty® and Vector Duty® AC motors have 1.0 Service Factors. All DC motors have 1.0 service factors.

**Mounting holes** – Most steel band and cast iron foot-mounted motors have dual mounting holes (143T-145T, 182T-184T, etc.)

**F1/F2** – All Cast iron motors are built with symmetrical frames which may be converted from F1 to F2 by switching endplates and rotor from end-to-end except for L182T, L184T, L213T, L215T and L449T. TEFC 5000 and 5800 frame motors are field convertible from F1 to F2 via swingarm. For ODP 5000 and 5800 Frames, please check with factory for F-1/F-2 conversion. Frames with the “L” prefix have standard NEMA base and BA dimensions. Also applies to TC versions of these frame sizes.

**SCR drive motors** – Field Amps listed are for High Voltage Connections with motor at operating temperature.

**Modified motors** – Using stock motors, ABB can modify motors to fit a variety of applications in only 2 to 5 working days for most modifications. Please see the Mod Express section in this catalog for more information.

**Custom motors** – For information on motor designs and capabilities not found in this catalog, please contact your local sales office.

### Summary of IP protection numbers

#### IP Protection – Baldor-Reliance® enclosures <sup>(1)</sup>

##### Open motor enclosures:

IP22 or 23 - Open drip proof AC or DC motors

##### Totally enclosed motor enclosures \* :

IP44 - LV General purpose AC or DC motors \*\*

IP54 - MV General purpose AC motors

IP55 - ABB IEC motors

Severe duty AC motors (ECP)

Crusher, Quarry & Dirty Duty motors

White Washdown & Paint-Free motors

IP56 - LV Motors meeting IEEE 841

Dirty Duty motors

Feather Picker motors

Stainless steel motors (non-encapsulated)

IP69 for Water -

Food Safe Stainless steel encapsulated motors

##### Notes:

(1) Codes are not included on stock motor nameplate as standard.

\* Totally enclosed motors will meet IP protection level indicated when drain plugs and or T-drains are properly installed.

\*\* IP54 when drain fitting kit #HA5027A03 is installed in the weep holes (48 thru 256T frame motors only)


	First # Protection Against Solid Objects	Second # Protection Against Liquids
<b>IP Tests</b>		<b>0</b> No Protection
<b>0</b> No Protection		<b>1</b> Protection against vertical drops of water. (E.G. Condensation.)
<b>1</b> Protection against solid objects up to 50 mm. (E.G. Accidental touch by hands.)		<b>2</b> Protection against falling water up to 15 degrees from the vertical.
<b>2</b> Protection against solid objects up to 12 mm. (E.G. Fingers)		<b>3</b> Protection against falling water up to 60 degrees from the vertical.
<b>3</b> Protection against solid objects over 2.5 mm. (E.G. Tools,Wires)		<b>4</b> Protection against splashing water from all directions, limited ingress.
<b>4</b> Protection against solid objects over 1 mm. (E.G. Tools, Wires, and Small Wires)		<b>5</b> Protection against low pressure jets of water from all directions, limited ingress.
<b>5</b> Protection against dust - limited ingress (No harmful deposits)		<b>6</b> Protection against strong jets of water. (E.G. Use on ship decks, limited ingress.)
<b>6</b> Totally protected against all dust.		<b>7</b> Protection against immersion.
		<b>8</b> Protection against submersion.
		<b>9</b> Protection against high pressure, high temperature spray of water from all directions

Contact your local sales office for clarification, assistance or additional information on any Baldor-Reliance or ABB product. A listing of the offices can be found on [baldor.com](http://baldor.com)

## Approvals UL and CSA

Approvals for AC Motors, Explosion Proof, and DC Motors:

File #:	Description:	Description:
		182T - 449T Frames
	UL Listed Explosion Proof AC Motors	5008, 5010, 9540 Frames
E10822		140TY - 440TY Frames - Submersible Water-Sewer Pump motors
		182T - 286T Frames - Shaker Duty motors
	UL Listed Explosion Proof DC Motors	1811AT - 259AT Frames
		327AT - 3610A Frames
		408AT - 409AT Frames
E481231	UL Listed Fire Pump Motors	140 - 440 Frames, up to 400 Hp
E27506	UL Recognition for Thermally Protected motors	42 - 250 Frames - Subfractional thru 20 Hp motors
E37609	Special Explosion Proof conduit boxes	
E46145	UL Recognition for DC frames	42 - 184 Frames - Subfractional Motors and Gearmotors
	UL Recognition for NEMA frames	42 - 449 Frames
E54825	UL Recognition for AC frames	180 - 5800 Frames
		L180 - DL2814 Frames
	UL Recognition for DC frames	48 - 4013AT Frames
E6881	UL Listed Explosion Proof DC Motors	56 Frame
E6951	UL Listed Explosion Proof AC/DC Motors	48 - 449 Frames - Subfractional thru 300 Hp motors
EEV79350	CSAc-us EEV Certification	1 - 500 Hp Motors
EEV78389	(Energy Efficiency Verification)	
LR19467	CSA Certified Explosion Proof (Division 1)	140TY - 440TY Frames
		180 - 449T Frames
	CSA c-us Certified Explosion Protected (Division 2)	180 - 449T Frames
LR22553	CSA Certification for Explosion Proof motors	48 - 215 Frames
	CSA c-us Certified Explosion Protected (Division 2)	56 - 364T Frames
LR2262	CSA Certification for DC frames	42 - 184 Frames
	CSA Certification for NEMA frames	42 - 449 Frames
	CSA c-us Certification for AC frames	L180 - DL2814 Frames - 32-1000 Hp
	CSA c-us Certification for DC frames	48 - 4013AT Frames - 5-500 Hp
LR40567	CSA c-us Certification for MG Sets	7MG - 80MG Frames - 15-150 Hp
	CSA c-us Certification for NEMA frames	140TY - 360TY Frames - Submersible and Immersible motors
LR46877	CSA c-us Certified Explosion Proof (Division 1)	L180 - L440 frames - TEPV Type X Purge Motors
	CSA c-us Certified Explosion Protected (Division 2)	L180 - DL2814 Frames
LR48703	CSA Certification for Explosion Proof motors	
LR52580	CSA Certification for AC frames	447T - 10840 Frames up to 7200 Volts
	CSA c-us Certification for DC frames	C4412 - B1610 Frames - 100-3000 Hp
LR53258	CSA c-us Certified Explosion Protected (Division 2)	447T - 9600 Frames up to 7200 Volts
LR60344	CSA c-us Certified Explosion Protected (Division 2)	447T - 10840 Frames up to 14000 Volts
LR63415	CSA Certification for Explosion Proof motors	
LR6451	CSA c-us Certification for AC frames	5800 - 10840 Frames - 1000-10000 Hp
LR6771	CSA Certified AC Division 1	
EEV78389	CSA EEV Certification (Energy Efficiency Verification)	1 - 500 Hp
LR7861	CSA c-us Certification for NEMA frames	180 - 449 Frames - 600 Hp max.
LR40567	CSA c-us Certification for NEMA frames	180 - 449 Frames - 600 Hp max.

 Motor Designs built at Athens and Gainesville Plants.

 Motor Designs built at Westville, Fort Smith, Ozark, and Columbus Plants.

 Motor Designs built at Athens, Gainesville, Westville, Fort Smith, Ozark, and Columbus Plants.

### Department of Energy (DOE) Compliance Certification: CC 010A

Motors for use in Canada meet NRC Canadian Standards for Efficiency.

### DC Tachometers

XPY tachometers are UL recognized, file number E109527 and CSA listed file number LR36841-5.

### DC SCR Controls and Accessories

BC-series SCR controls are UL/cUL Listed, file number E114039.

## Motors used outside of the United States

### Use of motors outside of North America

ABB is capable of supplying a wide range of electric motors suitable for use throughout the world. Both NEMA and IEC designs are available in a wide range of voltages, frequencies, mountings and certifications.

Compliance is not only about a regulated efficiency level to comply with MEPS but in many countries the motors must be certified and show a specific marking or documentation to allow importation and use. Such certification may be testing for efficiency in approved labs within that country. Usually these tests are done by spec and not for a wide ranging family. To avoid later confusion, addressing compliance needs and certifications should be done during the quote process, not after.

Please feel free to contact your local sales office for assistance in determining what needs to be done to make your export motor compliant.

### 60 Hz motors marked with 50 Hz data

Certain motors may have secondary 50 Hz nameplate data either at rated or reduced output power. Since most motors in this CA501 catalog are designed as 230/460 V, 60 Hz, on 50 Hz many of these motors are rated as 190/380 V. The efficiency on such motors is usually lower on 50 Hz than on 60 Hz and may not be compliant in all countries. Just because these motors are 50 Hz, they may not be CE compliant.

Please feel free to contact your local sales office for assistance in determining what needs to be done to make your export motor compliant.

### European Union (EU) – CE compliance

The EU ErP Directive, Regulation 640/2009 mandates 7.5 – 370 kW (10-500 Hp 2, 4, and 6-pole low voltage motors (up to 1000 V) sold for use in Europe should be marked with IE3 efficiency level as of January 1, 2015. As of January 1, 2017, motors from 0.75 – 370 kW (1-500 Hp) will need to be IE3. Additionally the motors need to have a CE mark. There is no formal registration process for motors sold for use in the EU.

IE2 motors are still allowed to be sold if used with an adjustable speed drive. Baldor-Reliance® motors have a sticker stating that it must be used with a drive. Again, the CE mark is required.

Intermittent duty (S2-S8), Brake motors, explosion-proof motors, 8-pole & slower and motors designed only for use with variable speed drives are exempt. Also motors with certain ambient and altitude marking may be exempt from EU regulations.

Note that specific motor construction and marking requirements beyond the motor efficiency level are required for CE compliance. These include nameplate markings, which IEC standards are referenced for compliance, earth ground symbol, IEC lead marking, half and three quarter efficiency levels (posted to literature or website), and more.

Please feel free to contact your local sales office for assistance in determining what needs to be done to make your export motor compliant.

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

- 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.
- Class II Temperature Codes** are typically the lower of either the ignition temperature of the combustible dust that is present or 165°C. Low surface temperature requirements (higher temperature codes) in Class II F&G require that over temperature protection be used.
  - Class II 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.
  - Class II 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.
- Motors for use in Class I only locations** may be provided without T-stats. In these cases, the T-Code is determined by the maximum external surface temperature of the motor enclosure at the point when the winding burns out. These motors have T-Codes T2A or T2B depending on design, and require special sacrificial insulation. Consult ABB for the acceptability of a requested T-code for specific designs. When motors for use in Division 1 areas (Class I and/or Class II) are provided with T-stats (Over temperature devices) the over-temperature protection must be utilized. If accepted by the AHJ (Authority Having Jurisdiction) other means of limiting the temperature may be utilized in the application. Such alternate protection means are the responsibility of the end user, and ABB does not accept any responsibility for them.
- Surface temperatures of Baldor-Reliance 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.

Maximum surface temperature	US (NEC 500) CA (CEC Annex J)	US (NEC 505) CA (CEC Section 18)	Maximum surface temperature	US (NEC 500) CA (CEC Annex J)	US (NEC 505) CA (CEC Section 18)
450° C	T1	T1	180° C	T3A	-
300° C	T2	T2	165° C	T3B	-
280° C	T2A	-	160° C	T3C	-
260° C	T2B	-	135° C	T4	T4
230° C	T2C	-	120° C	T4A	-
215° C	T2D	-	100° C	T5	T5
200° C	T3	T3	85° C	T6	T6

- Stock Motors** are not suitable for applications in temperatures below -25°C (-13°F). Custom motor designs available for applications in temperatures down to -60°C. Contact your local Sales office for further information.
- All Baldor-Reliance explosion-proof motors are supplied with Explosion-Proof UL and CSA approved conduit boxes as standard.
- Most Baldor-Reliance three phase AC explosion proof motors, are approved for use on adjustable speed drives. Only explosion proof motors with adjustable speed information on the motor nameplate can be used. Custom explosion proof ratings are available, contact your local sales office for more information.
- Baldor-Reliance Division 1 and Division 2 motors are certified for hazardous locations in the North American market, to the Class and Division system. When these motors also carry a CE mark, it is CE marked only for Electrical Safety, to the Low Voltage Directive, 2014/35/EU and has not been certified nor marked for the ATEX Directive, 2014/34/EU.

**Baldor-Reliance Explosion Proof motors in this catalog use the following symbols to designate their Division 1, Class and Group certification capabilities. These assignments are for use with this version of the 501 catalog only.**

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
⑥	Class I Group C & D, Class II Group E, F & G

## Abbreviations

The basic catalog number consists of a letter(s) prefix and several non-significant preceding numbers. A suffix letter(s) and/or number(s) may also be part of the catalog number. For example L3510 or L3510T. Following is a list of prefix and suffix definitions.

### Motors Prefix

AEM	Automotive Motor, three phase	GSL	Grain stirring motor, single phase
AFL	Aeration Fan Motor, single phase	HFM	HVAC duty, F-2 mounted connection box, three phase
AFM	Aeration Fan Motor, three phase	HIC	Incubator/hatchery vent fan motor, permanent split capacitor
ANFL	Auger Fan Motor, single phase	HM	HVAC duty motor, three phase
AOM	Air Over Motor, three phase	HPM	Hydraulic pump motor, three phase
AP	Subfractional Hp, PM motor	IDBRPM	RPMAC Inverter Duty® motor – laminated frame, TEBC
B	Brake motor	IDCSWDM	Inverter Duty® motor, paint free washdown, C-Face with base
BN	Brake motor, TENV enclosure	IDDRPM	RPMAC Inverter Duty® motor – laminated frame, DPG-FV
BTG	Tachometer generator	IDFRPM	RPMAC Inverter Duty® motor – laminated frame, TEFC
C	NEMA C-Face with base	IDM	Inverter Duty® motor, TEBC
CBXM	General Purpose explosion proof, Brake, three phase, C-Face foot mounted	IDNM	Inverter Duty® motor, TENV
CBXMN	General Purpose explosion proof, Brake, three phase, C-Face foot mounted, TENV	IDNRPM	RPMAC Inverter Duty® motor – laminated frame, TENV
CCPX	Severe Duty explosion proof, three phase, C-Face foot mounted	IDVSM	VS Master Inverter Duty® motor
CD	Wound field DC motor NEMA C-Face with base	IDVSNM	VS Master Inverter Duty® motor, TENV
CDM	Dirty Duty - three phase, C-Face	IDVSWDM	Inverter Duty® motor, paint free washdown, C-Face less base
CDMG	Lifting magnet generator, C-Face	IDWNM	Washdown Inverter Duty® motor, TENV
CDP	PM SCR drive motor	IM	Irrigation drive motor
CDPSWD	Paint free washdown PM SCR drive motor C-Face with base	IR	Instant reversing single phase farm motor
CDPT	PM SCR drive motor with integral tachometer	J	56J stainless steel threaded shaft with drip cover/jet pump
CDPWD	Washdown PM SCR drive motor NEMA C-Face with base	JM	JM pump shaft and face
CDPX	Explosion proof PM SCR drive motor C-Face with base	JMXM	General purpose explosion proof, three phase, Close Coupled Pump
CDRX	Drill Rig Duty explosion proof, three phase, C-face foot mounted	JP	JP pump shaft & face with base/close-coupled pump
CDRXL	Drill Rig Duty explosion proof, single phase, C-face foot mounted	JPDRX	Drill Rig Duty explosion proof, three phase, Close Coupled pump
CDX	Explosion proof wound Field DC motor, NEMA C-Face	JPM	JP pump shaft and face with base, three phase/close-coupled pump
CEL	Super-E® premium efficient motor, single phase, C-Face	JS	Square flange pump mount motors with threaded shaft
CEM	Super-E premium efficient motor, three phase, C-Face	JXL	General purpose explosion proof, single phase, jet pump
CFC	Condenser fan motor, permanent split capacitor	JXM	General purpose explosion proof, three phase, jet pump
CFM	Condenser fan motor, three phase	K	Model 34 diameter motor with 56 C-Face, less base
CHC	Direct drive fan motor, permanent split capacitor	L	Single phase motor
CHL	Direct drive fan motor, single phase	M	Three phase motor
CHM	Direct drive fan motor, three phase	MM	Metric dimension motor with base
CJWDM	Washdown jet pump, three phase, foot mounted	MP	Metering pump motor, three phase
CP	Severe duty motor	MVM	Metric dimension motor, flange mount less base, three phase
CPX	Severe Duty explosion proof, three phase	N	Totally enclosed non-ventilated motor
CR	Crusher duty motor	PCL	Pressure washer motor, C-Face with base, single phase
CSC	Checkout stand motor	PFTG	Tachometer generator foot mount
CTM	Cooling tower motor, three phase	PL	Pressure washer motor, single phase
CXL	General Purpose explosion proof, single phase, C-Face foot mounted	PSC	Permanent split capacitor motor
CXM	General Purpose explosion proof, three phase, C-Face foot mounted	PTG	Tachometer generator
D	Wound field DC motor	R	Repulsion-start induction-run motor
DDC	Direct drive, indoor blower motor, permanent split capacitor	RBM	High cycle brake motor, three phase
DEL	Dairy/vacuum pump motor, single phase	RHM	Definite purpose HVAC motors, three phase
DM	Dirty Duty - three phase	RL	Resilient base motor (cradle mount), single phase
DRX	Drill Rig Duty explosion proof, three phase	RM	Resilient base motor (cradle mount), three phase
E	Super-E premium efficient motor	SPM	Synchronous permanent magnet motor
ECP	Super-E Severe duty motor	SSEWDM	All stainless encapsulated Super-E washdown motor, three phase
ECP6	IEEE 661 motor	SSWDM	All stainless washdown, three phase
ECP8	IEEE 841 motor	SWDM	Paint free washdown duty motor, three phase
ENCP	Super-E severe duty motor, TENV	UCC	Universal crop dryer motor, permanent split capacitor, open air over
ENCP8	IEEE 841 motor, TENV	UCCE	Universal crop dryer motor, permanent split capacitor, TEAO
F	TEFC motor (when special)	UCL	Grain dryer/vane axial fan, single phase, open air over
FDL	Farm duty motor, single phase	UCLE	Grain dryer/vane axial fan, single phase, TEAO
FDEM	Farm duty motor, three phase, premium efficient, standard NEMA frame	UCM	Grain dryer/vane axial fan, three phase, open air over
FLT	Filter kit	UCME	Grain dryer/vane axial fan, three phase, TEAO
FM	F-2 mounted motor	UH	Unit handling motor
FP	Fire pump motor	UHM	Unit handling motor, three phase
FSWDM	All stainless steel food safe washdown motor, three phase	V	NEMA C-Face less base
FSWDL	All stainless steel food safe washdown motor, single phase	V2L	Two compartment jet pump motor C-Face less base, single phase
FVB	Blower kit	VDRX	Drill Rig Duty explosion proof, three phase, C-face footless
FWDM	Washdown duty motor, TEFC, three phase	VEM	Super-E premium efficient motor, three phase, C-Face, less base
GD	Grain dryer centrifugal fan motor	VHECP	Super-E vertical pump motor, severe duty - normal thrust
		VHM	Vertical pump motor - normal thrust, three phase
		VLCP	Vertical pump motor, severe duty – medium thrust

## Abbreviations

### Motors Prefix (continued)

VP	PM SCR drive motor with metric flange or C-Face
VPCP	Vertical pump motor, severe duty – high thrust
VXL	General Purpose explosion proof, single phase, C-Face footless
VXM	General Purpose explosion proof, three phase, C-Face footless
WC	West coast fit TCZ
WD	Washdown duty motor
WDBM	Washdown brake motor, three phase
XL	General purpose explosion proof, single phase
XM	General purpose explosion proof, three phase
YPC	Yoke pedestal fan motor, permanent split capacitor
ZDBRPM	RPMAC Vector Duty® motor – laminated frame, TEBC
ZDFRPM	RPMAC Vector Duty® motor – laminated frame, TEFC
ZDM	Vector Duty® motor, TEBC
ZDNM	Vector Duty® motor, TENV
ZDNRPM	RPMAC Vector Duty® motor - laminated frame, TENV
ZDPM	RPMAC permanent magnet rotor - laminated frame
ZDVSCP	VS Master severe duty Vector Duty® motor
ZDVSM	VS Master Vector Duty® motor
ZDVSNCP	VS Master severe duty Vector Duty® motor, TENV
ZDVSNM	VS Master Vector Duty® motor, TENV
ZDWNM	Washdown Vector Duty® motor, TENV
ZDVSNM	VS Master Vector Duty® motor, TENV
ZDWNM	Washdown Vector Duty® motor, TENV

### Kits & Accessories Prefix

BLW	Blower kit
BU	Bushing kit
CBL	Cable assembly
CC	Corrective capacitor bank
EN	Encoder kit
FCD	Drip cover kit
FFC	Fan cover/conduit box Kit
FL	Flange kit
RBT	Roller bearing conversion kit
RES	Resolver feedback kit
TK	Tachometer mounting kit

### Motors Suffix

/35	Full 140 frame band diameter
/36	Full 180 frame band diameter
-2	120/240V field
-2/4	200/400 volt winding
-4	460 volt winding
-5	575 volt winding
-8	200 volt winding
-9	NEMA Design C high torque winding
-12	12 leads
-50	Wound for 50 hertz service
-57	230/380-415 volt winding
-58	380-415 Volt Y-start/delta-run
-277	277 volt winding
-2340	2300/4000 volt winding

### Motors Suffix (continued)

-AP	Aluminum process performance
-PP	Cast iron process performance
-BG	Baldor-Reliance® shaft ground motor
-BV	Blower vented
-CI	Cast iron frame
-D	Dodge D-series brake
-DI	Dings Brake
-E	Encapsulated windings
-EX1	Ex nA
-EX2	Ex d
-EX3	Ex de
-G	Aegis shaft ground motor
-H	56H mounting
-I	Explosion-proof, 1.15 service factor
-NL	Non linear - for VFD use
-P	Partial AC motor excludes pulley endplate
-S	Dodge short-series brake
-TP	Refrigerator fan motor
A	Automatic thermal overload
C	IEC frame B14 face mount
D	IEC frame B5 flange mount
E	New electrical design
L	Long shafted motor with ball bearings that may be converted to have D.E. roller bearing.
LR	Long shafted motor with D.E. roller bearing that may be converted to ball bearings.
M	Manual thermal overload
P	Wound field DC motor NEMA “AT” frame
S	Motor has a short shaft for coupled loads
T	NEMA “T” frame dimensions
TP	Feather picker motor
TR	NEMA “T” frame - roller bearing
TS	NEMA “T” frame - short shaft
Y	Special mounting dimension

### Grinders Suffix

D	Deluxe
E	Exhaust guards
W	Wide design