



## Sustainability and energy management

Energy efficiency is the invisible climate solution, and we're leading the way by introducing motors that are premium and ultra-premium efficient. We continue to encourage our customers to use a drive wherever variable speed and loads cause inefficiencies – to use only the electricity that is needed for their operations. Together, we can lead the world to a low-carbon future.

Join us in our energy efficiency movement.

### Baldor-Reliance®

Sustainable, IE5+ ultra-premium efficient motors



#### Critical Cooling

Highest bearing protection available in NEMA Premium® (IE3) and ultra-premium (IE5) designs  
(HVAC section)



#### EC Titanium™

IE5 ultra-premium efficient integrated motor and drive  
Additional C-Face and plenum use additions  
(Variable speed section)



#### ABB Ability™

for hazardous locations  
Condition monitoring for motors  
(Service section)

## What's new

### Severe Duty XT motor

Completing our offering of severe duty motors  
(Severe duty section)



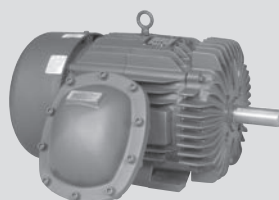
### Food Safe with AEGIS® shaft grounding ring

Additional bearing protection for our stainless-steel encapsulated C-Face motors  
(Washdown section)



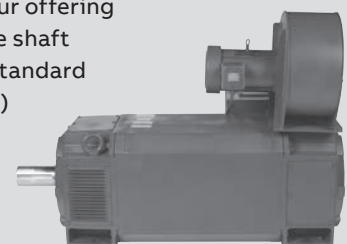
### Explosion proof motors

Completing our offering of general purpose, severe duty and drill rig duty motors  
(Explosion proof section)



### RPM AC

Generation 3 extends our offering thru 1750Hp and include shaft grounding brushes as standard  
(Variable speed section)



## Baldor-Reliance® motor's 100+ year history



- **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

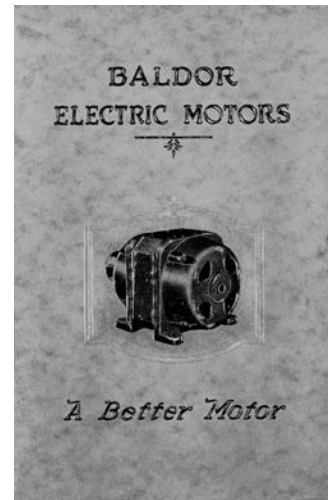
1940

1950

1960

1970

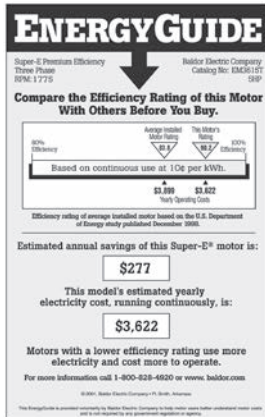
- **1904** – Lincoln Electric was formed and later became Reliance Electric
- **1905** – Lincoln Electric introduced the first adjustable speed DC motor



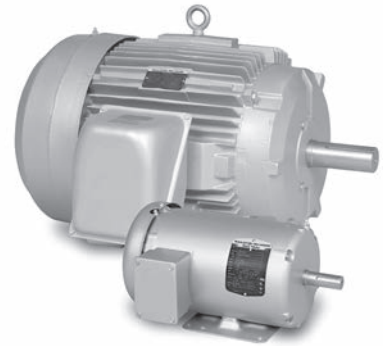
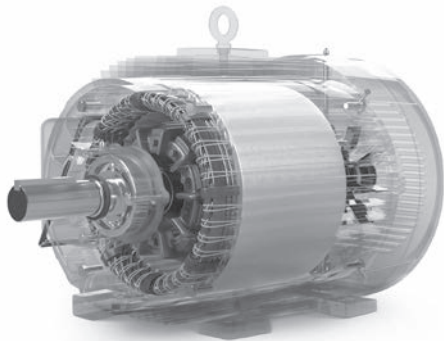
- **1956** – Baldor opened its first AC motor plant in Fort Smith, AR



- **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



- **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

General purpose  
Single phase

General purpose  
Three phase

Severe duty

Large Motors  
and Generators

Washdown duty

Explosion proof

Pump

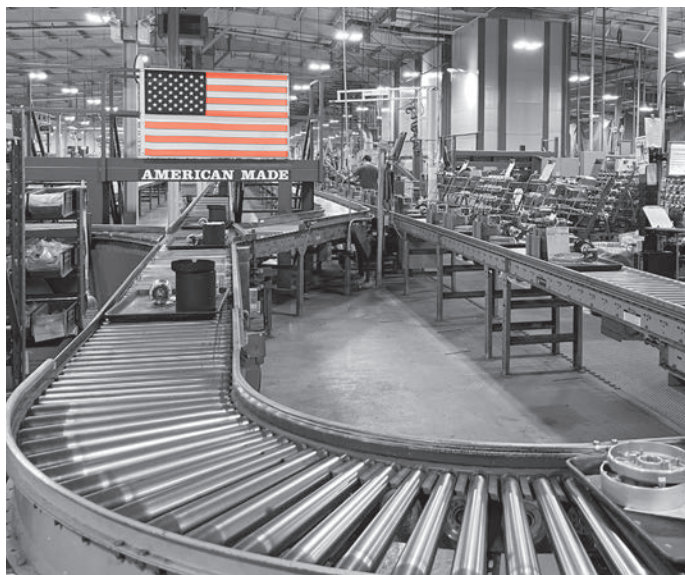
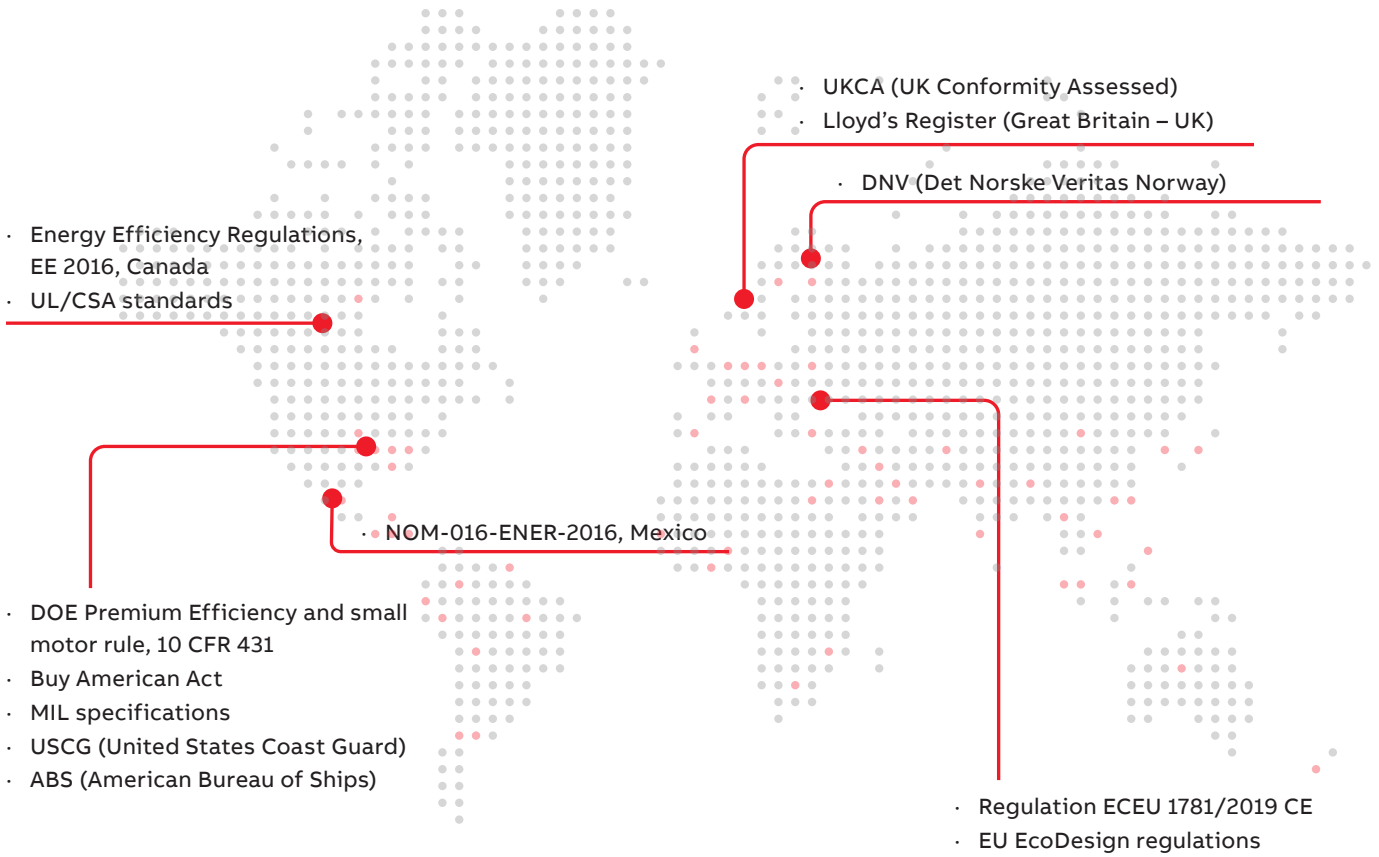
HVAC

Farm duty

# Innovation. Availability. Durability. Everything counts.

All Baldor-Reliance motors meet or exceed all efficiency requirements for US, Canada, and Mexico regulations. In addition, we comply with government mandated regulations and offer certifications to help our customers comply with motor requirements from around the world.

- Information
- General purpose Single phase
- General purpose Three phase
- Severe duty
- Large Motors and Generators
- Washdown duty
- Explosion proof
- Pump
- HVAC
- Farm duty



When you choose a Baldor-Reliance® motor, you get a motor backed by more than 100 years of efficiency and performance. Our motors are designed and built in Arkansas, Georgia, Mississippi and Oklahoma, and our employees are committed to quality so that we can provide a reliable motor every time.

Every day, thousands of customers make the choice to trust ABB and Baldor-Reliance motors. Your success is our success, and we will work with you every step of the way to deliver the right motor that exceeds your expectations.



Over 90% of Baldor-Reliance motors meet the Buy American Act. Find out more here.

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## Catalog notes

Customers have easy access to additional data and information by visiting [baldor.abb.com](http://baldor.abb.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 US Department of Energy (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. Frames with the “L” prefix have standard NEMA base and BA dimensions. Also applies to TC versions of these frame sizes.

**DC 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 - LV Severe Duty XT motors

IP55 - ABB IEC motors

Severe duty AC motors (ECP)  
Crusher, Quarry & Dirty Duty Plus motors  
White Washdown & Paint-Free motors

IP56 - LV Motors meeting IEEE 841

Dirty Duty Plus 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 solid objects up to 50 mm. (E.G. Accidental touch by hands.)		<b>1</b> Protection against vertical drops of water. (E.G. Condensation.)
<b>2</b> Protection against solid objects up to 12 mm. (E.G. Fingers)		<b>2</b> Protection against falling water up to 15 degrees from the vertical.
<b>3</b> Protection against solid objects over 2.5 mm. (E.G. Tools, Wires)		<b>3</b> Protection against falling water up to 60 degrees from the vertical.
<b>4</b> Protection against solid objects over 1 mm. (E.G. Tools, Wires, and Small Wires)		<b>4</b> Protection against splashing water from all directions, limited ingress.
<b>5</b> Protection against dust - limited ingress (No harmful deposits)		<b>5</b> Protection against low pressure jets of water from all directions, limited ingress.
<b>6</b> Totally protected against all dust.		<b>6</b> Protection against strong jets of water. (E.G. Use on ship decks, limited ingress.)
		<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.abb.com](http://baldor.abb.com)

## Approvals UL and CSA

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

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

Information

General purpose  
Single phase

General purpose  
Three phase

Severe duty

Large Motors  
and Generators

Washdown duty

Explosion proof

Pump

HVAC

Farm duty

## 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 230/460V, 60 Hz, on 50 Hz many of these motors are rated as 190/380V. 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

Ecodesign Regulation (EU) 2019/1781 sets minimum efficiency levels for both direct-on-line (DOL) rated low voltage motors and variable speed drives. It repeals and replaces Regulation 640/2009, setting new and more demanding requirements.

As of July 1, 2021 motors from .75 kW to 1000 kW (1 to 1300 Hp, 2, 4, 6, and 8 pole up to 1000V) sold in Europe will require IE3 efficiencies. Motors .12 kW up to .75 kW will require IE2 efficiencies as a minimum. Additionally the motors need to have a CE mark. There is no formal registration process for motors sold for use in the EU.

Motors within the scope of the regulation that are to be used on adjustable speed drives now require IE3 efficiencies.

Hazardous location motors (except Ex eb increased safety), brake motors, TEAO and 8 pole motors are no longer exempt from the EU regulations. These motors now require IE3 efficiencies.

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

Information

General purpose  
Single phase

General purpose  
Three phase

Severe duty

Large Motors  
and Generators

Washdown duty

Explosion proof

Pump

HVAC

Farm duty

## 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

General purpose Single phase	AEM	Automotive Motor, three phase	GD	Grain dryer centrifugal fan motor
	AFL	Aeration Fan Motor, single phase	GSL	Grain stirring motor, single phase
	AFM	Aeration Fan Motor, three phase	HFM	HVAC duty, F-2 mounted connection box, three phase
General purpose Three phase	ANFL	Auger Fan Motor, single phase	HIC	Incubator/hatchery vent fan motor, permanent split capacitor
	AOM	Air Over Motor, three phase	HM	HVAC duty motor, three phase
	AP	Subfractional Hp, PM motor	HPM	Hydraulic pump motor, three phase
Severe duty	B	Brake motor	IDBRPM	RPMAC Inverter Duty motor – laminated frame, TEBC
	BN	Brake motor, TENV enclosure	IDCSWDM	Inverter Duty motor, paint free washdown, C-Face with base
	BTG	Tachometer generator	IDDRPM	RPMAC Inverter Duty motor – laminated frame, DPG-FV
Large Motors and Generators	C	NEMA C-Face with base	IDFRPM	RPMAC Inverter Duty motor – laminated frame, TEFC
	CBXM	General Purpose explosion proof, Brake, three phase, C-Face foot mounted	IDM	Inverter Duty motor, TEBC
	CBXMN	General Purpose explosion proof, Brake, three phase, C-Face foot mounted, TENV	IDNM	Inverter Duty motor, TENV
Washdown duty	CCPX	Severe Duty explosion proof, three phase, C-Face foot mounted	IDNRPM	RPMAC Inverter Duty motor – laminated frame, TENV
	CD	Wound field DC motor NEMA C-Face with base	IDVSM	VS Master Inverter Duty motor
	CDM	Dirty Duty - three phase, C-Face	IDVSNM	VS Master Inverter Duty motor, TENV
Explosion proof	CDMG	Lifting magnet generator, C-Face	IDVSWDM	Inverter Duty motor, paint free washdown, C-Face less base
	CDP	PM SCR drive motor	IDWNM	Washdown Inverter Duty motor, TENV
	CDPSWD	Paint free washdown PM SCR drive motor C-Face with base	IM	Irrigation drive motor
Pump	CDPT	PM SCR drive motor with integral tachometer	IR	Instant reversing single phase farm motor
	CDPWD	Washdown PM SCR drive motor NEMA C-Face with base	J	56J stainless steel threaded shaft with drip cover/jet pump
	CDPX	Explosion proof PM SCR drive motor C-Face with base	JM	JM pump shaft and face
Farm duty	CDRX	Drill Rig Duty explosion proof, three phase, C-face foot mounted	JMXM	General purpose explosion proof, three phase, Close Coupled Pump
	CDRXL	Drill Rig Duty explosion proof, single phase, C-face foot mounted	JP	JP pump shaft & face with base/close-coupled pump
	CDX	Explosion proof wound Field DC motor, NEMA C-Face	JPDRX	Drill Rig Duty explosion proof, three phase, Close Coupled pump
HVAC	CEL	Super-E™ premium efficient motor, single phase, C-Face	JPM	JP pump shaft and face with base, three phase/close-coupled pump
	CEM	Super-E premium efficient motor, three phase, C-Face	JS	Square flange pump mount motors with threaded shaft
	CFC	Condenser fan motor, permanent split capacitor	JXL	General purpose explosion proof, single phase, jet pump
Explosion proof	CFM	Condenser fan motor, three phase	JXM	General purpose explosion proof, three phase, jet pump
	CHC	Direct drive fan motor, permanent split capacitor	K	Model 34 diameter motor with 56 C-Face, less base
	CHL	Direct drive fan motor, single phase	L	Single phase motor
Pump	CHM	Direct drive fan motor, three phase	M	Three phase motor
	CJWDM	Washdown jet pump, three phase, foot mounted	MM	Metric dimension motor with base
	CP	Severe duty motor	MP	Metering pump motor, three phase
Farm duty	CPX	Severe Duty explosion proof, three phase	MVM	Metric dimension motor, flange mount less base, three phase
	CR	Crusher duty motor	N	Totally enclosed non-ventilated motor
	CSC	Checkout stand motor	PCL	Pressure washer motor, C-Face with base, single phase
HVAC	CTM	Cooling tower motor, three phase	PFTG	Tachometer generator foot mount
	CXL	General Purpose explosion proof, single phase, C-Face foot mounted	PL	Pressure washer motor, single phase
	CXM	General Purpose explosion proof, three phase, C-Face foot mounted	PSC	Permanent split capacitor motor
Farm duty	CXT	Severe duty XT motor, 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
Farm duty	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
Farm duty	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
Farm duty	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
Farm duty	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
Farm duty	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
Farm duty	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
Farm duty	FWDM	Washdown duty motor, TEFC, three phase	VEM	Super-E premium efficient motor, three phase, C-Face, less base
			VHECP	Super-E vertical pump motor, severe duty - normal thrust
			VHM	Vertical pump motor - normal thrust, three phase

## Abbreviations

### Motor Prefix (continued)

VLCP	Vertical pump motor, severe duty – medium thrust
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
VXT	Severe duty XT motor, 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
XT	Severe duty XT motor
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