

BALDOR-RELIANCE®

EC Titanium™IEC frame

Beyond EC efficiency & performance

BALDOR • RELIANCE II



The Baldor-Reliance EC Titanium IEC motors and integrated drives are a highly efficient integrated motor drive that combines synchronous reluctance and permanent magnet technologies for a sustainable, solution that improves your bottom line.

It is the most efficient low voltage motor available in the market today.

EC Titanium

Ultimate efficiency and reliability



IE5+ efficiency

- Highest system efficiency at full and partial speeds and loads
- Exceed IE5 efficiency per IEC Technical Standard 60034-30-2



Eco-friendly design

- FASR (Ferrite assisted synchronous reluctance) utilizes non-rare earth magnets
- Motors use recycled metals and materials



Variable speed operation

- Choose either an integrated motor-drive option or motor-only for flexibility
- Motor-only options allow for multi-motor to drive configurations, ideal for fan arrays
- Fan & pump control



Smart motor solution

- Remote programming & monitoring PC and mobile tool
- Apps that help with calculating energy use and savings



Plug-and-play, ready to go

- Pre-programmed motor and drive designed to run out-of-the-box
- Integrated motor-drive eliminates expensive wiring and installation time
- · No drive experience necessary



Reliable and quiet operation

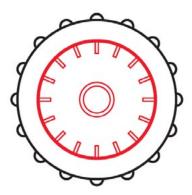
- Extremely low starting current and less cogging reduces mechanical stress, increase reliability and produces ultra-quiet operation
- Internally mounted shaft grounding brush included as standard to mitigate bearing currents



EC Titanium

Newest rotor technology to achieve the highest efficiency

Currently, FASR (ferrite assisted synchronous reluctance) motors offer the most efficient performance available. This type of motor will reliably deliver IE5+ performance when it is paired with a variable speed drive (VSD). Together, magnet-assisted synchronous reluctance motors with VSDs enable significant efficiency gains over induction motors across a wide speed range, and they offer particular benefits when operated with partial loads. Integrated motor drive packages are available in standard sizes meaning that they can be used as drop-in replacements for other IEC motors.



Induction motor

- Slip losses in rotor (I2R)
- · Heats bearing and motor
- Lower efficiency adds to heat generated





FASR motor

- Synchronous reluctance design eliminates rotor losses
- The addition of ferrite magnets increases field strength (more lines of flux) less work required stator
- Less overall losses, lower current draw and lower motor temperatures

No rotor and lower stator losses

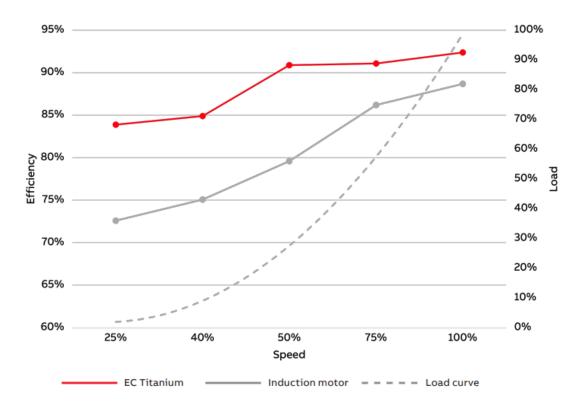


Optimized speed and load curves

EC Titanium motors' wider speed torque range with higher efficiency allows more flexibility to match a fan impeller and reach a nominal fan duty point. Results at partial load points show efficiency gains of as much as 16 percent over IE3 induction motors.

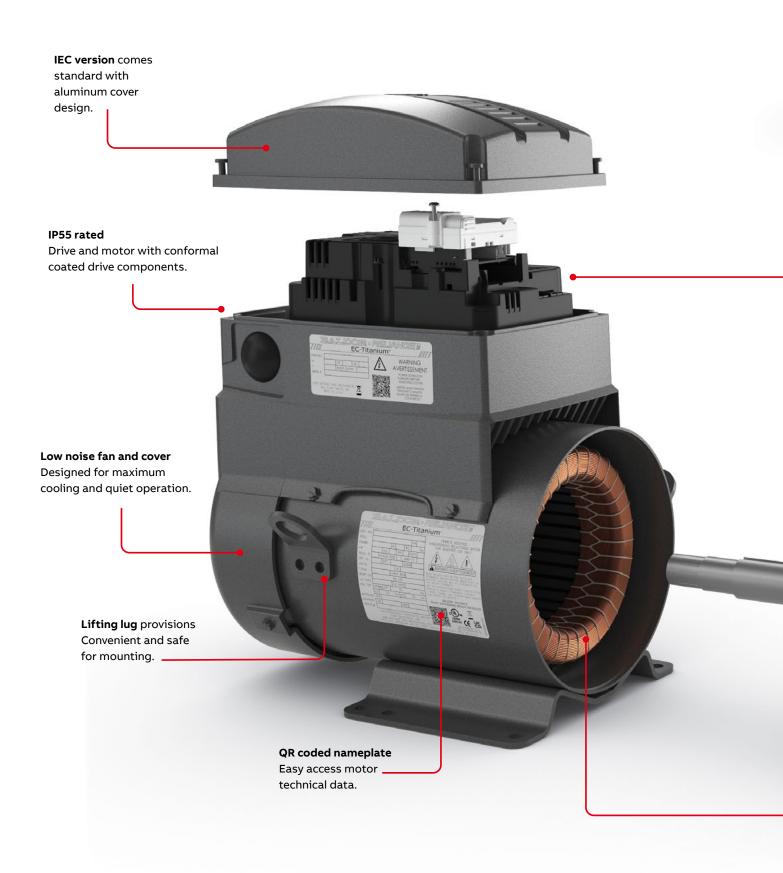
EC Titanium vs Induction:

Efficiency level for speed and load



For pump and fan applications with variable speed and variable torque (load), EC Titanium integrated motor drives display superior efficiency performance over induction motors at rated and partial load speed points.

EC Titanium innovation





Top mount integrated drive B3 foot mounted and B14 or B5 footless options

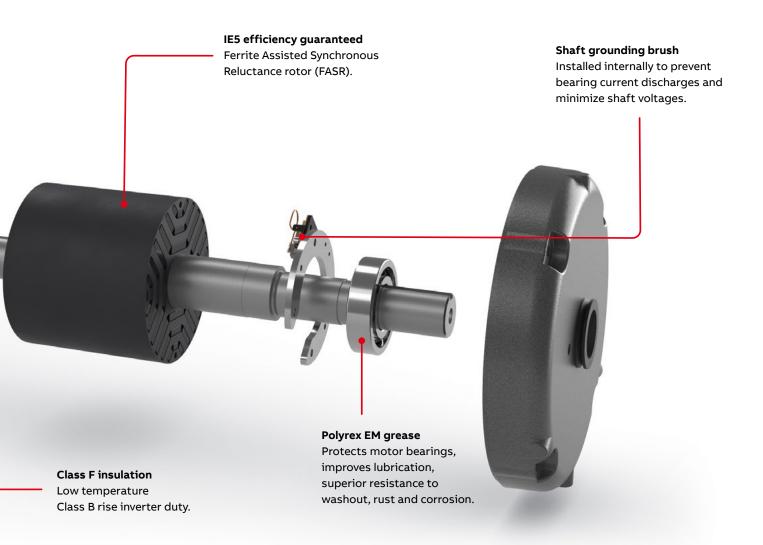


Axial mount integrated drive B3 foot mounted and B14 or B5 footless options



Motor only version B3 foot mounted and B14 or B5 footless options

Drive pre-wired and programmed.



EC Titanium motor only configuration

for expanded capabilities



Pairing EC Titanium with the ABB ACH580 drive enables the use of advanced motor control algorithms for higher efficiencies across the speed and load range than traditional motor solutions.

ABB Drives feature support

- ACH580 V2.12 ID run firmware support
- · Integral harmonic mitigation
- Ultra-low harmonics compatible
- · Wide range network interfaces
- Extensive pump and fan drive features
- Used also for both variable torque and constant torque loads such as unit handling conveyors



IE5 efficiency according to IEC TS 60034-30-2

New technical specification IEC TS 60034-30-2 (2016) specify the efficiency classes for variable speed drive (VSD) motors (i.e. motors which cannot be operated direct on line (DOL)). Typical standard low voltage induction motor efficiency is determined according to IEC 60034-30-1 in sinusoidal (DOL)supply.

IEC TS 60034-30-2 highlights

- The IE class limit values in new IEC TS 60034-30-2 are reduced by adding the additional harmonic losses caused by the drive:
 - 15% additional losses for motors up to 90kW
- · Limit values available also for IE5 level
- Limit values to be achieved with 90% speed, 100% torque (n90 Efficiency)

DOL or VSD motor – Same IE class, same efficiency performance in VSD duty

This allows direct comparison in IE class level of traditional induction motors in variable speed usage and advanced technology motors designed only for variable speed drive (like EC Titanium motors). It does not matter if the IE classification is done with DOL supply according to IEC 60034-30-1 or with VSD supply according to IEC TS 60034-30-2. The given IE class still illustrates efficiency performance of both solutions in VSD operation very well. Same IE class, same efficiency performance.

Example:

11 kW 4-pole motor efficiency	Efficiency requirement (IE5)
IEC 60034-30-1 (DOL)	94.6%
IEC TS 60034-30-2 (VSD)*	93.9%
Baldor-Reliance EC Titanium (actual)	94.4%

 $^{^{\}star}$ There currently is no IE5 DOL motor available and shown for comparison only. Actual DOL motor efficiency and IEC 60034-30-1 covers up to IE4 efficiencies only.

Ordering Information

EC Titanium IEC frame product ordering

Baldor-Reliance® EC Titanium stock assembly consists of the standard rolled steel motor with a selection of a (M) motor only, or either a (T) top mount or (A) axial mount motor drive package and defined by voltage and power rating at 1500 RPM base speed. Custom configuration are available and can be selected from the part number definition table EC Titanium.

Product series	Frame	Product code	Variant code
ECS	101	MOKOP8DF4	+
		1 2 3 45 6 7 8	9

ECS	EC Titanium
Frame	Description
101	Rolled steel motor frame, aluminum fan
	and drive cover, non-Bluetooth drive, for
	indoor use/outdoor/and Plenum use,
	includes (M) motor only

Position 1	Version	
М	Motor only	
Т	Top mount drive	
A	Axial mount drive	

Position 2		Voltage
0	190 / 380	3-phase
1	115V	1-phase
2	230V	3-phase
3	380 – 400V	3-phase
8	230V	1-phase

Position 3	Power type
K	Kilowatt

Position 4, 5	Power rating (kW)	
0P8	0.75	
1P5	1.5	
2P2	2.2	
3	3	
4	4	
5P5	5.5	
7P5	7.5	
11	11	
15	15	

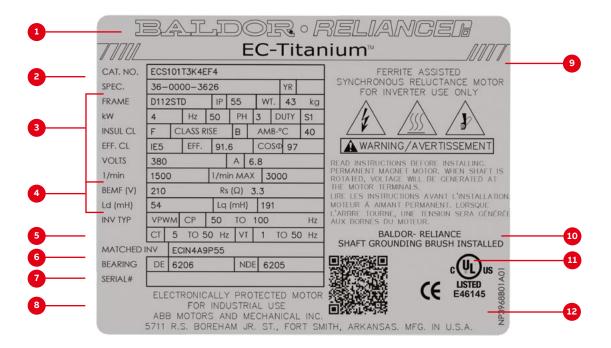
Position 6	NEMA frame
D	90
E	112
F	132

Position 7	Mounting
В	B34 Foot flange mount
С	B14 Footless flange mounted
D	B5 Footless flange mounted
E	B35 Foot flange mount
F	B3 Foot-mounted

se speed (r/min)	Position 8
3000	2
1500	4
1000	6
750	8
	8

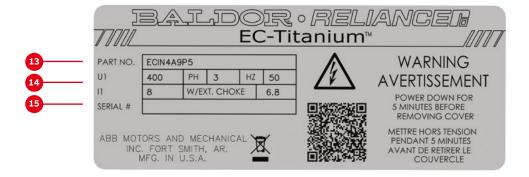
Position 9		Variant
	"+" designates	minor construction variation(s
+	(e.g. paint col	or, shaft length, etc.) that do no
	affect the ne	rformance safety of the produc

Rating Plates



- 1 Baldor-Reliance ABB logo
- 2 Catalog, specification number, manufacturing year
- 3 Motor information
 - Frame size, IP class, weight, power, frequency phase, duty, insulation class, rise, ambient rating, efficiency class, efficiency power factor, volts, amps, RPM, RPM maximum
- 4 Motor drive tuning information
 - BEMF (v), stator Rs inductance Ld (mH), Lq (mH)

- 5 Speed range
- 6 Bearing size
- 7 Serial number
- 8 Manufacturing place
- 9 Product description
- 10 Shaft ground brush installed
- 11 cUL, CE, UKCA mark
- 12 Manufacturing standard
- 13 Drive model number
- 14 Input voltage, phase, frequency
- 15 Input current



Technical data

BALDOR • RELIANCE II

IP55

SHAFT GROUNDING BRUSH
INSTALLED

Specification

<u> </u>	200V - 240Vac (+/- 10%) - 1-phase
Voltage & power requirements:	200V - 240Vac (+/- 10%) - 3-phase
	380V - 480Vac (+/- 10%) - 3-phase
Input frequency:	50/60 Hz
Overload capacity:	150% for 1 minute (most models)
Switching frequency:	4kHz, 8Khz, 12kHz, 16kHz, 24kHz, 32kHz
IEC frames:	90, 112, 132
Efficiency	IE5 per IEC TS60034-30-2
Mounting:	B3, B14, B34, B35, B5
Analog references:	0-10Vdc, 0-20mAdc, 4-20mAdc
Digital inputs:	24Vdc - (1 = 8 - 30Vdc; 0 = 0 - 4Vdc)
Input configurations:	2 Fixed DI's; 2 Configurable (AI or DI)
Output relay:	No contact; 250Vac, 6A / 30Vdc, 5A
Standards & certifications:	cUL, CE, UKCA

Environmental

Englassing	TEFC/IP55 Motor with CE
Enclosure	IP55 Drive
On southing the south of the so	-10 to 50°C
Operating temperature	(de-rate output 2% per °C above 40 °C)
Storage temperature	-40 to 70°C
Relative humidity	0 to 95% (non-condensing)
Vibration (operating)	1 G Peak at 20 Hz
Vibration (non-operating)	0.2G Peak at 20 to 50Hz
Maximum elevation	Up to 1000 meters
Elevation for de-rated operation	Up to 2000 meters De-rate above 1000 meters-1% for every 100 meters



Applications:

- Fans
- Pumps
- Compressors
- Blowers
- Unit handling conveyors
- HVAC systems
- Variable speed applications
- General purpose applications



Motor features:

- IE5+ motor efficiency per IEC TS60034-30-2
- FASR Ferrite Assisted Synchronous Reluctance Rotor
- Class F insulation with Class B motor temperature rise
- IP55 motor enclosure with shaft seal
- Internal grounding brush for bearing current mitigation
- 1600V/insulation system
- Designed for longevity with 3-year motor warranty



Drive features:

- Permanent magnet PWM AC drive control
- Serial Modbus or BACnet (RJ45 or +/terminal inferface)
- 2 Digital inputs, 2 configurable inputs (analog or digital), 1 relay output
- Designed for longevity with 2-year drive warranty



Standard product, motor and drive:

• IP55 gasket aluminum drive enclosure and fan cover

EC Titanium motor, Inverter Duty, IE5+, IC411

0.75 thru 11kW



IP55

190/380V AC (+/-10%), three phase, B3 foot mount

kW	Base speed RPM	C.H. speed RPM	IEC frame	Catalog number	"L" dim.	Aprx. wt. (kg)	Full load efficiency	Eff class	Full load amps
0.75	1500	3000	90	ECS101M0K0P8DF4	338	18	87.7%	IE5	2.6/1.3
1.5	1500	3000	90	ECS101M0K1P5DF4	338	19	89.1%	IE5	5.2/2.6
2.2	1500	2000	90	ECS101M0K2P2DF4	363	25	91.1%	IE5	8/4
2.2	1500	3000 —	112	ECS101M0K2P2EF4	410	30	91.1%	IE5	8/4
3	1500	3000	112	ECS101M0K3EF4	410	30	92.4%	IE5	10.6/5.3
4	1500	3000	112	ECS101M0K4EF4	410	30	92.4%	IE5	13.6/6.8
5.5	1500	3000	132	ECS101M0K5P5FF4	447	57	92.7%	IE5	21/10.5
7.5	1500	3000	132	ECS101M0K7P5FF4	476	76	93.8%	IE5	24.2/13.6
11	1500	3000	132	ECS101M0K11FF4	551	98	94.4%	IE5	39/19.5

190/380V AC (+/-10%), three phase, B14 footless

kW	Base speed RPM	C.H. speed RPM	IEC frame	Catalog number	"L" dim.	Aprx. wt. (kg)	Full load efficiency	Eff class	Full load amps
0.75	1500	3000	90	ECS101M0K0P8DC4	324	18	87.7%	IE5	2.6/1.3
1.5	1500	3000	90	ECS101M0K1P5DC4	324	19	89.1%	IE5	5.2/2.6
	1500	2000	90	ECS101M0K2P2DC4	349	25	91.1%	IE5	8/4
2.2	1500	3000 —	112	ECS101M0K2P2EC4	403	30	91.1%	IE5	8/4
3	1500	3000	112	ECS101M0K3EC4	403	30	92.4%	IE5	10.6/5.3
4	1500	3000	112	ECS101M0K4EC4	403	30	92.4%	IE5	13.6/6.8
5.5	1500	3000	132	ECS101M0K5P5FC4	493	57	92.7%	IE5	21/10.5
7.5	1500	3000	132	ECS101M0K7P5FC4	522	76	93.8%	IE5	24.2/13.6
11	1500	3000	132	ECS101M0K11FC4	596	98	94.4%	IE5	39/19.5

190/380V AC (+/-10%), three phase, B5 footless

kW	Base speed RPM	C.H. speed RPM	IEC frame	Catalog number	"C" dim.	Aprx. wt. (kg)	Full load efficiency	Eff class	Full load amps
0.75	1500	3000	90	ECS101M0K0P8DD4	305	18	87.7%	IE5	2.6/1.3
1.5	1500	3000	90	ECS101M0K1P5DD4	305	19	89.1%	IE5	5.2/2.6
2.2	1500	2000	90	ECS101M0K2P2DD4	330	25	91.1%	IE5	8/4
2.2	1500	3000 —	112	ECS101M0K2P2ED4	455	30	91.1%	IE5	8/4
3	1500	3000	112	ECS101M0K3ED4	455	30	92.4%	IE5	10.6/5.3
4	1500	3000	112	ECS101M0K4ED4	455	30	92.4%	IE5	13.6/6.8
5.5	1500	3000	132	ECS101M0K5P5FD4	493	57	92.7%	IE5	21/10.5
7.5	1500	3000	132	ECS101M0K7P5FD4	522	76	93.8%	IE5	24.2/13.6
11	1500	3000	132	ECS101M0K11FD4	596	98	94.4%	IE5	39/19.5

EC Titanium, top mount, integrated drive motor, IE5+, IC411

0.75 thru 5.5kW



IP55

B3 foot mount

kW	Base speed RPM	C.P. speed RPM	IEC frame	Catalog number	"L" dim. v	Aprx. vt. (kg)	Full load efficiency	Eff class	Motor input amps	Drive module	Drive output amps
1-phase	50 HZ, 230V AC (+	+/-10%) - The إ	ower rating	s are valid at nominal vol	tage						
1.5	1500	3000	90	ECS101T8K1P5DF4	314	23	89.1%	IE5	2.8	ECIN8A7P0	7
3-phase	50 HZ, 230V AC (+/-10%) - The إ	oower rating	s are valid at nominal vol	ltage						
0.75	1500	3000	90	ECS101T3K0P8DF4	314	20	87.7%	IE5	2.6	ECIN2A4P3	4.3
1.5	1500	3000	90	ECS101T3K1P5DF4	314	23	89.1%	IE5	5.2	ECIN2A7P0	7.0
2.2	1500	3000	112	ECS101T3K2P2EF4	424	39	91.4%	IE5	8	ECIN2A10P5	10.5
3-phase	50 HZ, 400V AC (+/-10%) - The	power rating	s are valid at nominal vo	ltage						
0.75	1500	3000	90	ECS101T3K0P8DF4	314	20	87.7%	IE5	1.3	ECIN4A2P2	2.2
1.5	1500	3000	90	ECS101T3K1P5DF4	314	23	89.1%	IE5	2.6	ECIN4A5P8	5.8
2.2	1500	3000	112	ECS101T3K2P2EF4	424	39	91.4%	IE5	4.4	ECIN4A5P8	5.8
3	1500	3000	112	ECS101T3K3EF4	424	45	92.4%	IE5	5.3	ECIN4A9P5	9.5
4	1500	3000	112	ECS101T3K4EF4	424	45	92.4%	IE5	6.8	ECIN4A9P5	9.5
5.5	1500	3000	132	ECS101T3K5P5FF4	460	67	92.9%	IE5	10.5	ECIN4A12P0	12

B14 footless

kW	Base speed RPM	C.P. speed RPM	IEC frame	Catalog number	"L" dim. v	Aprx. wt. (kg)	Full load efficiency	Eff class	Motor input amps	Drive module	Drive output amps
1-phase	50 HZ, 230V AC (+	+/-10%) - The p	ower rating	s are valid at nominal vo	ltage						
1.5	1500	3000	90	ECS101T8K1P5DC4	301	23	89.1%	IE5	2.8	ECIN8A7P0	7
3-phase	50 HZ, 400V AC (+/-10%) - The	power rating	s are valid at nominal vo	oltage						
0.75	1500	3000	90	ECS101T3K0P8DC4	301	20	87.7%	IE5	1.3	ECIN4A2P2	2.2
1.5	1500	3000	90	ECS101T3K1P5DC4	301	20	89.1%	IE5	2.6	ECIN4A5P8	5.8
2.2	1500	3000	112	ECS101T3K2P2EC4	408	39	91.4%	IE5	4.4	ECIN4A5P8	5.8
3	1500	3000	112	ECS101T3K3EC4	408	45	92.4%	IE5	5.3	ECIN4A9P5	9.5
4	1500	3000	112	ECS101T3K4EC4	408	45	92.4%	IE5	6.8	ECIN4A9P5	9.5
5.5	1500	3000	132	ECS101T3K5P5FC4	454	67	92.9%	IE5	10.5	ECIN4A12P0	12

B5 footless

kW	Base speed RPM	C.P. speed RPM	IEC frame	Catalog number	"L" dim. v	Aprx. wt. (kg)	Full load efficiency	Eff class	Motor input amps	Drive module	Drive output amps
1-phase	50 HZ, 230V AC (-	+/-10%) - The p	ower rating	s are valid at nominal vo	ltage						
1.5	1500	3000	90	ECS101T8K1P5DD4	301	23	89.1%	IE5	2.8	ECIN8A7P0	7
3-phase	50 HZ, 400V AC (+/-10%) - The p	ower rating	s are valid at nominal vo	oltage						
0.75	1500	3000	90	ECS101T3K0P8DD4	301	20	87.7%	IE5	1.3	ECIN4A2P2	2.2
1.5	1500	3000	90	ECS101T3K1P5DD4	301	23	89.1%	IE5	2.6	ECIN4A5P8	5.8
2.2	1500	3000	112	ECS101T3K2P2ED4	408	39	91.4%	IE5	4.4	ECIN4A5P8	5.8
3	1500	3000	112	ECS101T3K3ED4	408	45	92.4%	IE5	5.3	ECIN4A9P5	9.5
4	1500	3000	112	ECS101T3K4ED4	408	45	92.4%	IE5	6.8	ECIN4A9P5	9.5
5.5	1500	3000	132	ECS101T3K5P5FD4	454	67	92.9%	IE5	10.5	ECIN4A12P0	12

EC Titanium, axial mount, integrated drive motor, IE5+, IC411

0.75 thru 4kW



2	foot	mai	int

kW	Base speed RPM	C.P. speed RPM	IEC frame	Catalog number	"L" dim. v	Aprx. vt. (kg)	Full load efficiency	Eff class	Motor input amps	Drive module	Drive output amps
1-phase	50 HZ, 230V AC (-	+/-10%) - The p	ower rating	s are valid at nominal volt	age						
1.5	1500	3000	90	ECS101A8K1P5DF4	424	23	89.1%	IE5	2.8	ECIN8A7P0	7
3-phase	50 HZ, 230V AC (-	+/-10%) - The p	ower rating	s are valid at nominal volt	age						
0.75	1500	3000	90	ECS101A3K0P8DF4	424	20	87.7%	IE5	2.6	ECIN2A4P3	4.3
1.5	1500	3000	90	ECS101A3K1P5DF4	424	23	89.1%	IE5	5.2	ECIN2A7P0	7.0
2.2	1500	3000	112	ECS101A3K2P2EF4	565	39	91.4%	IE5	8	ECIN2A10P5	10.5
3-phase	50 HZ, 400V AC (+/-10%) - The p	ower rating	s are valid at nominal volt	age						
0.75	1500	3000	90	ECS101A3K0P8DF4	434	20	87.7%	IE5	1.3	ECIN4A2P2	2.2
1.5	1500	3000	90	ECS101A3K1P5DF4	434	23	89.1%	IE5	2.6	ECIN4A5P8	5.8
2.2	1500	3000	112	ECS101A3K2P2EF4	434	39	91.4%	IE5	4.4	ECIN4A5P8	5.8
3	1500	3000	112	ECS101A3K3EF4	565	45	92.4%	IE5	5.3	ECIN4A9P5	9.5
4	1500	3000	112	ECS101A3K4EF4	565	45	92.4%	IE5	6.8	ECIN4A9P5	9.5

B14 footless

kW	Base speed RPM	C.P. speed RPM	IEC frame	Catalog number	"L" dim. w	Aprx. /t. (kg)	Full load efficiency	Eff class	Motor input amps	Drive module	Drive output amps
1-phase	50 HZ, 230V AC (+/-10%) - The p	ower rating	s are valid at nominal volt	tage						
1.5	1500	3000	90	ECS101A8K1P5DC4	424	23	89.1%	IE5	2.8	ECIN8A7P0	7
3-phase	50 HZ, 400V AC (+/-10%) - The p	ower rating	s are valid at nominal vol	tage						
0.75	1500	3000	90	ECS101A3K0P8DC4	434	20	87.7%	IE5	1.3	ECIN4A2P2	2.2
1.5	1500	3000	90	ECS101A3K1P5DC4	434	23	89.1%	IE5	2.6	ECIN4A5P8	5.8
2.2	1500	3000	112	ECS101A3K2P2EC4	434	39	91.4%	IE5	4.4	ECIN4A5P8	5.8
3	1500	3000	112	ECS101A3K3EC4	565	45	92.4%	IE5	5.3	ECIN4A9P5	9.5
4	1500	3000	112	ECS101A3K4EC4	565	45	92.4%	IE5	6.8	ECIN4A9P5	9.5

B5 footless

kW	Base speed RPM	C.P. speed RPM	IEC frame	Catalog number	"L" dim.	Aprx. wt. (kg)	Full load efficiency	Eff class	Motor input amps	Drive module	Drive output amps
1-phase	50 HZ, 230V AC (+	+/-10%) - The	power rating	s are valid at nominal v	oltage				-		
1.5	1500	3000	90	ECS101A8K1P5DD4	424	23	89.1%	IE5	2.8	ECIN8A7P0	7
3-phase	50 HZ, 400V AC (+/-10%) - The	power rating	gs are valid at nominal v	oltage						
0.75	1500	3000	90	ECS101A3K0P8DD4	434	20	87.7%	IE5	1.3	ECIN4A2P2	2.2
1.5	1500	3000	90	ECS101A3K1P5DD4	434	23	89.1%	IE5	2.6	ECIN4A5P8	5.8
2.2	1500	3000	112	ECS101A3K2P2ED4	434	39	91.4%	IE5	4.4	ECIN4A5P8	5.8
3	1500	3000	112	ECS101A3K3ED4	565	45	92.4%	IE5	5.3	ECIN4A9P5	9.5
4	1500	3000	112	ECS101A3K4ED4	565	45	92.4%	IE5	6.8	ECIN4A9P5	9.5

Note: B34 and B35 mounting available on customer orders

Energy savings

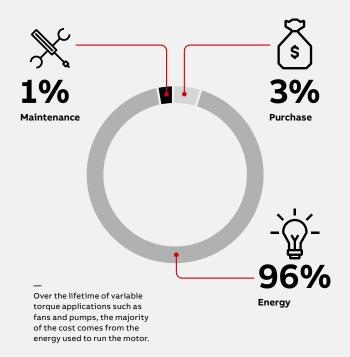
How does this translate to power consumption reduction and energy savings? Here are results on actual customer test result in the US market; however, depending on energy costs, these savings could be significantly greater.

Induction motor (IE3)	EC Titanium FASR motor (IE5)
Average unit consumption per day	Average unit consumption per day
(based on seven-day average)	(based on seven-day measurement)
57.7 kWH	45.1 kWH
Estimated annual energy cost	Estimated annual energy cost
(based on 0.25 € per kWh)	(based on 0.25 € per kWh)
€ 5,265	€ 4,115
Energy cost savings per motor	€ 1,150



Better lifetime efficiency for the whole system

EC Titanium motors and integrated drivess enable better overall system efficiency. With pumps and fans, which are usually run at partial load, this translates to better wireto-water and wire-to-air efficiency. And, although replacing older motor systems with more efficient ones does carry an initial financial cost, the long-term savings over the lifetime of the application far outweigh the cost of purchase. In fact, the initial investment can often be paid back in as little as one to three years.



Sustainability

ABB has set ourselves the ambitious target of helping our customers reduce their annual ${\rm CO_2}$ emissions in excess of 100 megatonnes by 2030. This is equivalent to the annual emissions of 30 million combustion cars. An example of how this can be accomplished is the ability of ABB drives powering electric motors that can reduce electricity consumption by up to 25%.

Smart sensor for energy consumption

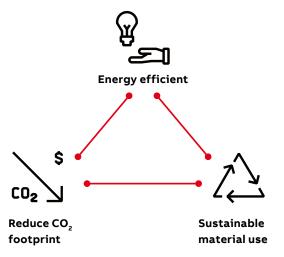
The ABB Ability™ calculates several parameters of datapoints including speed, motor power and torque. With this information, we can accurately calculate energy usage and help our customers optimize their operations.



White paper: Improving end-to-end system efficiency



Learn more about: Energy Efficiency





ABB, your global value partner

Partnering with ABB gives you access to some of the world's most innovative technology and thinking.

Global reach

ABB operates in over 100 countries with its own manufacturing, logistics and sales operations together with a wide network of local channel partners that can quickly respond to your needs. They bring our products and services straight to your front door. ABB channel partners have in-depth knowledge of local markets and are conversant with the defined ABB products and processes.

Energy efficiency

ABB has what it takes to help every industry and application reach new levels of efficiency and energy savings even under the most demanding conditions. Combining the best available materials with superior technology, our motors are designed to operate reliably no matter how challenging the process or application, and to have low life cycle costs.













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