## **PRODUCT INFORMATION PACKET**

Model No: QCA1602A1131GAA001 Catalog No: QCA1602A1131GAA001 TerraMAX® Cast Iron Motor, 215 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 315L Frame, TEFC



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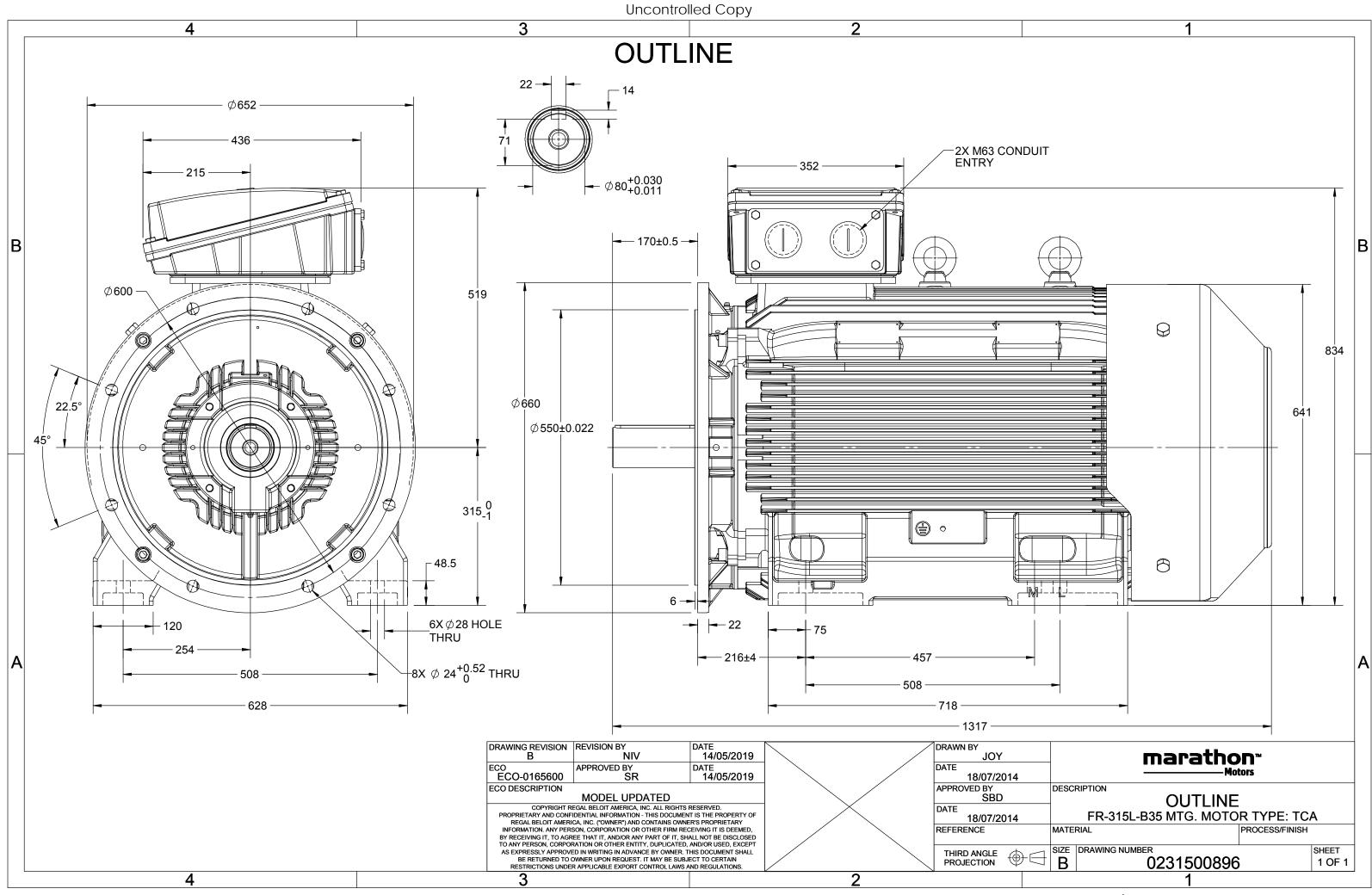
### Nameplate Specifications

Output HP	215 Hp	Output KW	160.0 kW		
Frequency	50 Hz	Voltage	400 V		
Current	276.1 A	Speed	1490 rpm		
Service Factor	1	Phase	3		
Efficiency	96.6 %	Power Factor	0.87		
Duty	S1	Insulation Class	F		
Frame	315L	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Ambient Temperature	40 °C		
Drive End Bearing Size	6319	Opp Drive End Bearing Size	6319		
UL	No	CSA	No		
			55		
CE	Yes	IP Code	55		

### **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	B35	Motor Orientation	Horizontal
Drive End Bearing	СЗ	Opp Drive End Bearing	С3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1317 mm	Frame Length	840 mm
Shaft Diameter	80 mm	Shaft Extension	170 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0231500896	Connection Drawing	8442000085

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3 of 7





# **TerraMAX**<sup>®</sup>

1R x 3C x 240mm²/2 x M63 x 1.5

NA

Model No. QCA1602A1131GAA001

U	$\Delta / Y$	f	Р	Р	I	n	Т	IE	9	% EFF a	t_loa	d	PF	at_lo	ad	I <sub>A</sub> /I <sub>N</sub>	T <sub>A</sub> /T <sub>N</sub>	T <sub>K</sub> /T <sub>N</sub>
(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	 3/4FL	1/2FL	FL	 3/4FL	1/2FL	[pu]	[pu]	[pu]
400	Δ	50	160	215	274.8	1490	1027.33	IE4	-	96.6	96.6	, 95.9	0.87	0.83	0.74	7.9	2.5	3.6
																•		
Motor	type				QCA				Deg	gree of	protecti	on				IP 55		
Enclos	ure				TEFC				Мо	unting	type					IM B35		
Frame	Materia	I			Cast Iro	n			Coc	Cooling method						IC 411		
Frame	size				315L				Мо	Motor weight - approx.						1321		
Duty					S1					Gross weight - approx.						1366		kg
Voltag	e variatio	on *			± 10%				Мо	Motor inertia						5.3723		
Freque	ency vari	ation *			± 5%			Loa	Load inertia					Custo	Customer to Provide			
Combi	ned varia	ation *			10%			Vib	Vibration level						2.8		mm/s	
Design					Ν				Noi	Noise level ( 1meter distance from motor)					)	69		dB(A)
Service	factor				1.0				No.	No. of starts hot/cold/Equally spread						2/3/4		
Insulat	ion class	5			F				Sta	Starting method						DOL		
Ambie	nt tempe	erature			-20 to +4	40		°C	Тур	Type of coupling						Direct		
Tempe	rature r	ise (by r	resistand	ce)	80 [ Class	B ]		К	LR v	LR withstand time (hot/cold)						15/30		S
Altitud	e above	sea lev	el		1000			meter	Dire	Direction of rotation					В	i-directiona	al	
Hazard	lous area	a classif	ication		NA				Sta	Standard rotation					Cloc	ckwise form	n DE	
	Zone cl	assifica	tion		NA			Pair	Paint shade						RAL 5014			
	Gas gro	oup			NA				Acc	essorie	s							
	Tempe	rature o	lass		NA					Acc	cessory	- 1				PTC 150°C		
Rotor t	type			A	uminum D	ie cast				Acc	cessory	- 2				-		
Bearin	g type			/	Anti-frictio	n ball				Accessory - 3					-			
DE / N	DE beari	ng		63	6319 C3 / 6319 C3				Ter	Terminal box position						ТОР		

 $I_A/I_N$  - Locked Rotor Current / Rated Current

 $T_{\rm K}/T_{\rm N}$  - Breakdown Torque / Rated Torque

Maximum cable size/conduit size

Auxiliary terminal box

 $T_{\text{A}}/T_{\text{N}}$  - Locked Rotor Torque / Rated Torque

### NOTE

Lubrication method

Type of grease

All performance values at rated voltage and frequency.

All performance parameters are subjected to standard tolerance as per IEC 60034-1

Regreasable

CHEVRON SRI-2 or Equivalent

\* Voltage, Frequency and combined variation are as per IEC60034-1

Technical dat	ta are subject to chang	ge. There may be slight v	variations between calculated v	values in this datashe	eet and the motor nam	eplate figures.
Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	IEC 60034-30-1	-	-	AS/NZ 1359:5:2	- 004	IEC 60034-30-1

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Model No. QCA1602A1131GAA001

Enclosure	U	$\Delta / Y$	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	400	Δ	50	160	215	274.8	1490	104.76	1027.33	IE4	40	S1	1000	5.3723	1321

#### Motor Load Data

Motor Speed Torque Data

r/min

А

pu

Load Point

Speed

Current

Torque

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	97.2	116.7	165.4	218.1	274.8	
Torque	Nm	0.0	255.6	512.0	769.2	1027.3	
Speed	r/min	1500	1498	1495	1493	1490	
Efficiency	%	0.0	93.4	95.9	96.6	96.6	
Power Factor	%	3.9	53.1	74.0	83.0	87.0	

P-Up

300

2.1

2170.9 1953.8

LR

0

2.5

BD

1371

3.6

1274.8

1490

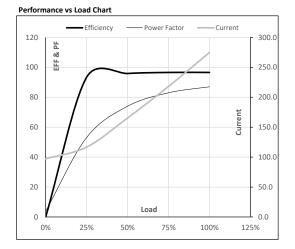
274.8

1

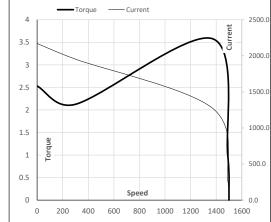
1500

97.2

0



		Starting Characteristics Chart
Rated	NL	



NOTE Refer data sheet for applicable standard and tolerances on performance parameters

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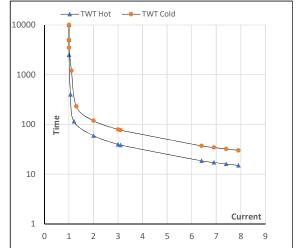
### Model No. QCA1602A1131GAA001

Enclosure	U	$\Delta / Y$	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	400	Δ	50	160	215	274.8	1490	104.76	1027.33	IE4	40	S1	1000	5.3723	1321

### Motor Speed Torque Data

Load		FL	$I_1$	I <sub>2</sub>	I <sub>3</sub>	$I_4$	I <sub>5</sub>	LR
TWT Hot	s	10000	59	40	30	25	20	15
TWT Cold	s	10000	119	79	60	45	40	30
Current	ри	1	2	3	4	5	5.5	7.9

### Thermal Characteristics Chart



**NOTE** Refer data sheet for applicable standard and tolerances on performance parameters

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