## **PRODUCT INFORMATION PACKET**

Model No: QCA1102A1113GAA001 Catalog No: QCA1102A1113GAA001 TerraMAX® Cast Iron Motor, 150 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 315S Frame, TEFC



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Motors

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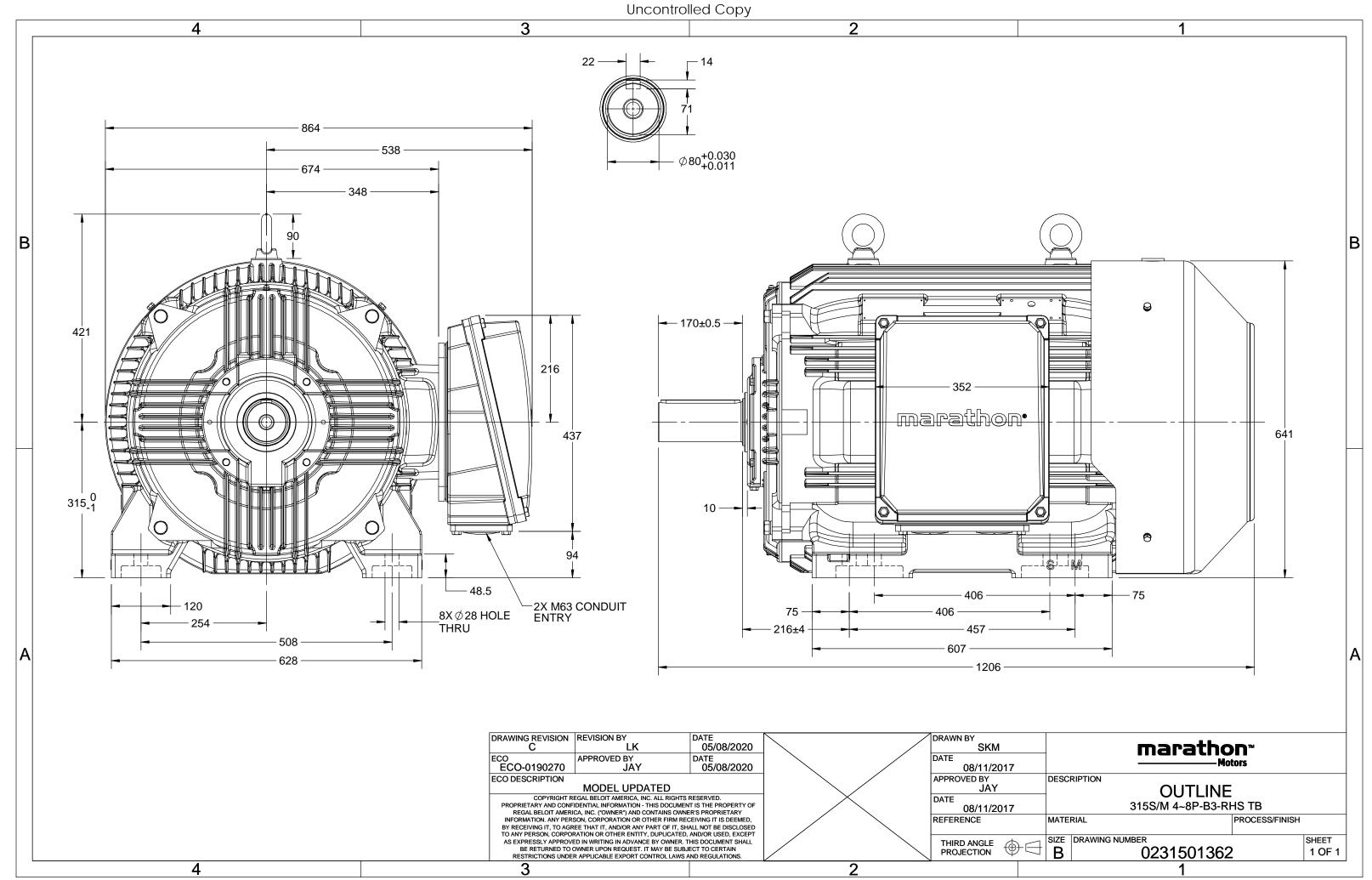
### Nameplate Specifications

Output HP	150 Hp	Output KW	110.0 kW
Frequency	50 Hz	Voltage	400 V
Current	198.2 A	Speed	1491 rpm
Service Factor	1	Phase	3
Efficiency	96.3 %	Power Factor	0.84
Duty	S1	Insulation Class	F
Frame	315S	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	Νο
CE	Yes	IP Code	55

### **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	B3	Motor Orientation	Horizontal
Drive End Bearing	СЗ	Opp Drive End Bearing	Сз
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1206 mm	Frame Length	729 mm
Shaft Diameter	80 mm	Shaft Extension	170 mm
Assembly/Box Mounting	R Side		
Connection Drawing	8442000085	Outline Drawing	0231501362

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# **TerraMAX**<sup>®</sup>

RAL 5014

PTC 150°C

RHS

1R x 3C x 240mm²/2 x M63 x 1.5

NA

Model No. QCA1102A1113GAA001

U	$\Delta / Y$	f	Р	Р	I	n	Т	IE		% EFF a	at loa	d	PF	at lo	ad	I <sub>A</sub> /I <sub>N</sub>	$T_A/T_N$	$T_{\rm K}/T_{\rm N}$
(∨)	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	110	150	196.3	1491	716.54	IE4	-	96.3	96.3	94.7	0.84	0.78	0.66	8.1	2.6	3.9
Motor	type				QCA				Deg	gree of	protectio	on				IP 55		
Enclosu	ure				TEFC				Mo	Nounting type IM B3								
Frame	Materia	I			Cast Irc	on		Cooling method						IC 411				
Frame	size				3155			Motor weight - approx.						1063		kg		
Duty					S1			Gross weight - approx.						1108		kg		
Voltage	e variatio	on *			± 10%				Мо	tor iner	tia					4.0682		kgm <sup>2</sup>
Freque	ncy varia	ation *			± 5%				Loa	d inerti	а				Custo	Customer to Provide		
Combin	ned varia	ation *			10%				Vib	ration l	evel					2.8		mm/s
Design					Ν				Noi	se level	( 1mete	r distanc	e from	motor)		69		dB(A)
Service	factor				1.0				No.	of star	ts hot/co	old/Equa	lly sprea	ad		2/3/4		
Insulati	ion class	;			F		St			Starting method						DOL		
Ambier	nt tempe	erature			-20 to +	40		°C	Тур	e of co	upling					Direct		
Tempe	rature ri	se (by r	esistanc	e)	80 [ Class	6 B ]		К	LR	withsta	nd time (	(hot/cold	I)			15/30		S
Altitud	e above	sea leve	el		1000			meter	Dire	ection c	of rotatio	n			<b>Bi-directional</b>			
		a classif			NA				Sta	ndard r	otation				Cloc	kwise form [	)F	

Paint shade

Accessories

Accessory - 1

Accessory - 2

Accessory - 3

Maximum cable size/conduit size

 $T_K/T_N$  - Breakdown Torque / Rated Torque

Terminal box position

Auxiliary terminal box

NOTE	

All performance values at rated voltage and frequency.

I<sub>A</sub>/I<sub>N</sub> - Locked Rotor Current / Rated Current

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

Zone classification

Temperature class

Gas group

Rotor type

Bearing type

DE / NDE bearing

Type of grease

Lubrication method

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

NA

NA

NA

Aluminum Die cast

Anti-friction ball

6319 C3 / 6319 C3

Regreasable

CHEVRON SRI-2 or Equivalent

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

Technical data are subject to change. There may be slight variations between calculated values in this datasheet and the motor nameplate figures.											
Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC					
Standards	IEC 60034-30-1	-	-	AS/NZ 1359:5:200	4 -	IEC:60034-30-1					

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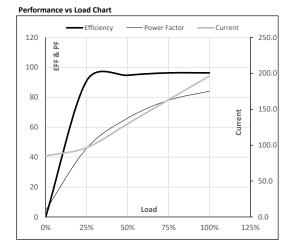


Model No. QCA1102A1113GAA001

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	110	150	196.3	1491	73.07	716.54	IE4	40	S1	1000	4.0682	1063

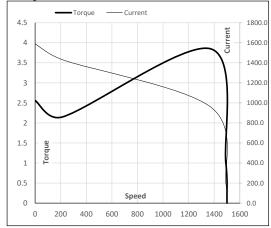
#### Motor Load Data

	NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
А	84.9	96.6	129.6	163.2	196.3	
Nm	0.0	178.3	357.2	536.5	716.5	
r/min	1500	1498	1495	1493	1491	
%	0.0	91.0	94.7	96.3	96.3	
%	4.5	45.9	66.0	78.0	84.0	
	Nm r/min %	A 84.9 Nm 0.0 r/min 1500 % 0.0	A 84.9 96.6 Nm 0.0 178.3 r/min 1500 1498 % 0.0 91.0	A 84.9 96.6 129.6   Nm 0.0 178.3 357.2   r/min 1500 1498 1495   % 0.0 91.0 94.7	A 84.9 96.6 129.6 163.2   Nm 0.0 178.3 357.2 536.5   r/min 1500 1498 1495 1493   % 0.0 91.0 94.7 96.3	A 84.9 96.6 129.6 163.2 196.3   Nm 0.0 178.3 357.2 536.5 716.5   r/min 1500 1498 1495 1493 1491   % 0.0 91.0 94.7 96.3 96.3



Motor Speed Torque Data												
Load Point		LR	P-Up	BD	Rated	NL						
Speed	r/min	0	214	1372	1491	1500						
Current	А	1589.8	1430.8	959.7	196.3	84.9						
Torque	pu	2.6	2.2	3.9	1	0						





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

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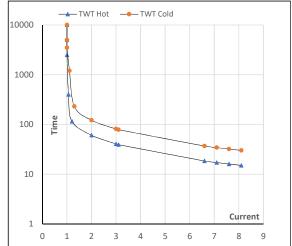
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Enclosure	U	$\Delta / Y$	f	Р	Р	I	n	т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	400	Δ	50	110	150	196.3	1491	73.07	716.54	IE4	40	S1	1000	4.0682	1063

### Motor Speed Torque Data

Load		FL	$I_1$	l <sub>2</sub>	I <sub>3</sub>	$I_4$	I <sub>5</sub>	LR
TWT Hot	s	10000	61	41	30	25	20	15
TWT Cold	s	10000	122	81	60	45	40	30
Current	pu	1	2	3	4	5	5.5	8.1

### Thermal Characteristics Chart



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

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