# PRODUCT INFORMATION PACKET



Model No: QCA1323AF111GAA001 Catalog No: QCA1323AF111GAA001

TerraMAX® Cast Iron Motor, 175 HP, 3 Ph, 50 Hz, 380 V, 1000 RPM, 315L Frame, TEFC



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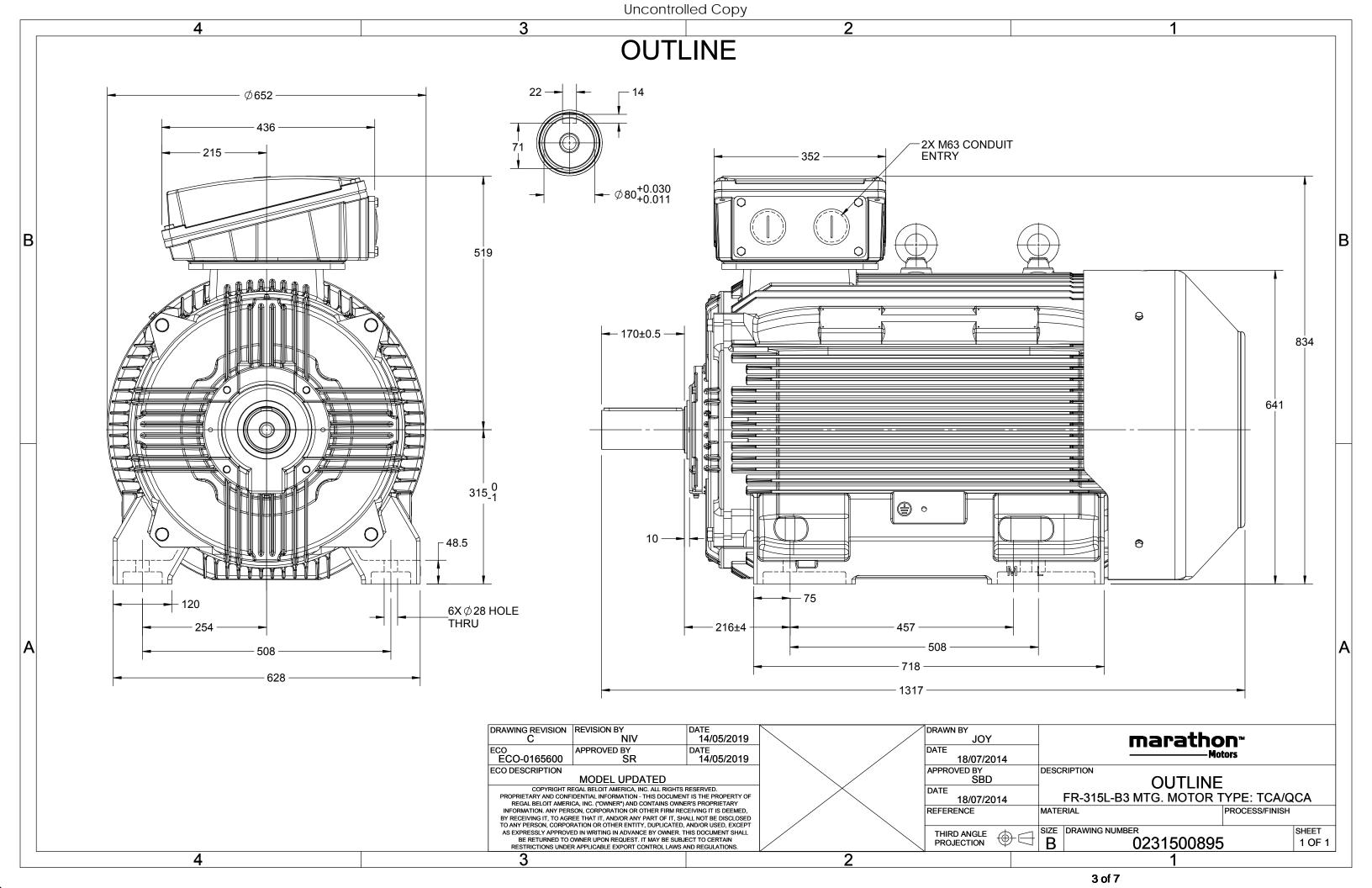
### Nameplate Specifications

Output HP	175 Hp	Output KW	132.0 kW
Frequency	50 Hz	Voltage	380 V
Current	261.9 A	Speed	992 rpm
Service Factor	1	Phase	3
Efficiency	96 %	Power Factor	0.8
Duty	<b>S1</b>	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
CE	YES	IP Code	55
Number of Speeds	1	Efficiency Class	IE4

# **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	Rotation	Bi-Directional
Mounting	В3	Motor Orientation	Horizontal
Drive End Bearing	СЗ	Opp Drive End Bearing	СЗ
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	0231500895	Connection Drawing	8442000085

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DRAWING REVISION	REVISION BY	DATE
Α	SN	13/01/2017
ECO	APPROVED BY	DATE
ECO-0116390	SBD	13/01/2017
ECO DESCRIPTION		

#### **NEW DRAWING RELEASE**

GEOMENTRIC TOLERANCE							
	>0~6	±0.1					
LINEAR DIM	>6~30	±0.2					
>30~120 ±0.3							



## NOTES:

- 1.
- 2.
- PRESSURE-SENSITIVE ADHESIVE COATED PAPER ON THE BACK OF SELF-ADHESIVE. AT THE END OF YELLOW, WORDS, SYMBOLS, LETTERS ARE BLACK, BORDER IS BLACK. THE TOLERANCE OF THE LINEAR SIZE OF THE TOLERANCE WITHOUT THE TOLERANCE 3. BY THE TABLE.

8WD.442.2017







### Model No. QCA1323AF111GAA001

U	Δ/Υ	f	Р	Р	I	n	T	IE	9	6 EFF a	t load	l	PF	at lo	ad	I <sub>A</sub> /I <sub>N</sub>	T <sub>A</sub> /T <sub>N</sub>	$T_K/T_N$
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
380	Δ	50	132	175	261.1	992	######	IE4	-	96	96	95	0.8	0.75	0.63	6.6	2.4	2.8

Motor type	QCA		Degree of protection	IP 55	
Enclosure	TEFC		Mounting type	IM B3	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	315L		Motor weight - approx.	1197	kg
Duty	<b>S1</b>		Gross weight - approx.	1242	kg
Voltage variation *	± 10%		Motor inertia	6.5064	kgm <sup>2</sup>
Frequency variation *	± 5%		Load inertia	Customer to Provide	
Combined variation *	10%		Vibration level	2.8	mm/s
Design	N		Noise level (1meter distance from mot	tor) 66	dB(A)
Service factor	1.0		No. of starts hot/cold/Equally spread	2/3/4	
Insulation class	F		Starting method	DOL	
Ambient temperature	-20 to +40	°C	Type of coupling	Direct	
Temperature rise (by resistan	ce) 80 [ Class B ]	K	LR withstand time (hot/cold)	15/30	S
Altitude above sea level	1000	meter	Direction of rotation	Bi-directional	
Hazardous area classification	NA		Standard rotation	Clockwise form DE	
Zone classification	NA		Paint shade	RAL 5014	
Gas group	NA		Accessories		
Temperature class	NA		Accessory - 1	PTC 150°C	
Rotor type	Aluminum Die cast		Accessory - 2	-	
Bearing type	Anti-friction ball		Accessory - 3	-	
DE / NDE bearing	6319 C3 / 6319 C3		Terminal box position	TOP	
Lubrication method	Regreasable		Maximum cable size/conduit size	1R x 3C x 240mm²/2 x M63 x 1.5	
Type of grease	CHEVRON SRI-2 or Equivalent		Auxiliary terminal box	NA	

 $I_A/I_N$  - Locked Rotor Current / Rated Current  $T_A/T_N$  - Locked Rotor Torque / Rated Torque  $T_K/T_N$  - Breakdown Torque / Rated Torque

### NOTE

All performance values at rated voltage and frequency.

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

Technical data are subject to change. There may be discrepancies between calculated and name plate values.

Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	-	GB 18613-2012 Grade 2	-	-	-	IEC: 60034-30

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<sup>\*</sup> Voltage, Frequency and combine variation are as per IEC60034-1

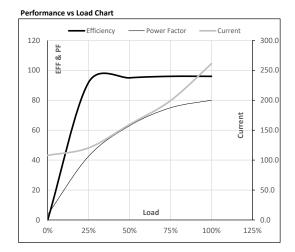




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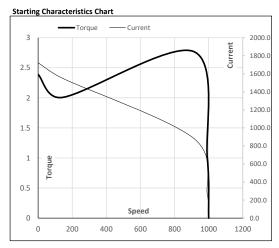
Enclosure	U	Δ/Υ	f	Р	Р	1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	380	Δ	50	132	175	261.1	992	128.08	1256.03	IE4	40	S1	1000	6.5064	1197

Motor Load Da	ata						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	107.9	120.4	159.5	199.3	261.1	
Torque	Nm	0.0	312.2	625.6	940.1	1256.0	
Speed	r/min	1000	998	996	994	992	
Efficiency	%	0.0	92.0	95.0	96.0	96.0	
Power Factor	%	3.6	42.6	63.0	75.0	80.0	



#### Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	143	913	992	1000	
Current	Α	1723.5	1551.2	884.7	261.1	107.9	
Torque	pu	2.4	2.0	2.8	1	0	



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

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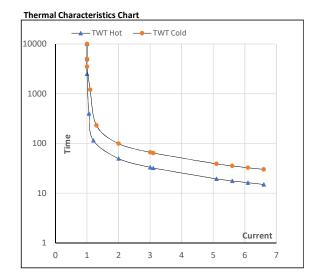




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Enclosure	U	Δ/Υ	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
TEFC	380	Δ	50	132	175	261.1	992	128.08	1256.03	IE4	40	S1	1000	6.5064	1197

Motor Speed Torque Data											
Load		FL	l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	I <sub>4</sub>	I <sub>5</sub>	LR			
TWT Hot	S	10000	50	33	25	20	18	15			
TWT Cold	S	10000	99	66	45	40	36	30			
Current	pu	1	2	3	4	5	5.5	6.6			



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

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