# PRODUCT INFORMATION PACKET



Model No: QCA1P11A1113GAA001
Catalog No: QCA1P11A1113GAA001
Form MAX® Coat Iron Motor, 4 50 UB, 3 Pb, 50 UE, 400 V, 3000 RRM

TerraMAX® Cast Iron Motor, 1.50 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 80M Frame, TEFC



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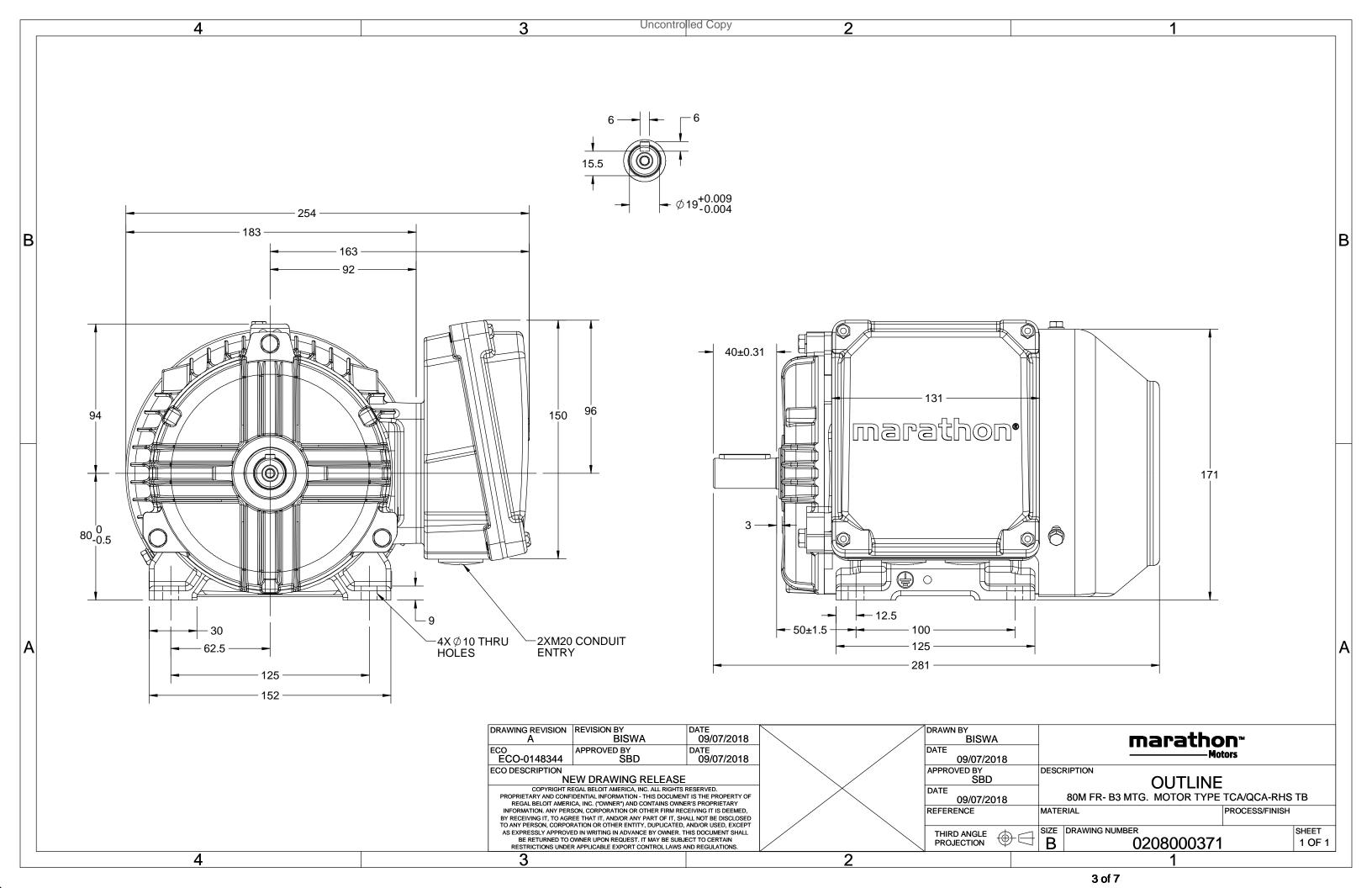
# Nameplate Specifications

Output HP	1.50 Hp	Output KW	1.1 kW	
Frequency	50 Hz	Voltage	400 V	
Current	2.2 A	Speed	2891 rpm	
Service Factor	1	Phase	3	
Efficiency	85.2 %	Power Factor	0.84	
Duty	S1	Insulation Class	F	
Frame	80M	Enclosure	Totally Enclosed Fan Cooled	
Thermal Protection	No Protection	Ambient Temperature	40 °C	
Drive End Bearing Size	6204	Opp Drive End Bearing Size	6204	
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	2	Rotation	Bi-Directional
Mounting	B3	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	281 mm	Frame Length	140 mm
Shaft Diameter	19 mm	Shaft Extension	40 mm
Assembly/Box Mounting	R Side		
Outline Drawing	0208000371	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. QCA1P11A1113GAA001

U	Δ/Υ	f	Р	Р	I	n	T	IE		% EFF a	at load	d	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]
400	Υ	50	1.1	1.5	2.2	2891	3.70	IE4	-	85.2	85.2	82.3	0.84	0.77	0.64	7.8	4.1	4.0

Motor type	QCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	80M	
Duty	S1	
Voltage variation *	± 10%	
Frequency variation *	± 5%	
Combined variation *	10%	
Design	N	
Service factor	1.0	
Insulation class	F	
Ambient temperature	-20 to +40	°C
Temperature rise (by resistance)	80 [ Class B ]	K
Altitude above sea level	1000	meter
Hazardous area classification	NA	
Zone classification	NA	
Gas group	NA	
Temperature class	NA	
Rotor type	Aluminum Die cast	
Bearing type	Anti-friction ball	
DE / NDE bearing	6204-2Z / 6204-2Z	
Lubrication method	Greased for life	
Type of grease	NA	

Degree of protection	IP 55	
Mounting type	IM B3	
Cooling method	IC 411	
Motor weight - approx.	21.5	kg
Gross weight - approx.	22.5	kg
Motor inertia	0.0018	kgm <sup>2</sup>
Load inertia	Customer to Provide	
Vibration level	1.6	mm/s
Noise level ( 1meter distance from motor	or) 56	dB(A)
No. of starts hot/cold/Equally spread	2/3/4	
Starting method	DOL	
Type of coupling	Direct	
LR withstand time (hot/cold)	10/20	S
Direction of rotation	Bi-directional	
Standard rotation	Clockwise form DE	
Paint shade	RAL 5014	
Accessories		
Accessory - 1	PTC 150°C	
Accessory - 2	-	
Accessory - 3	-	
Terminal box position	RHS	
Maximum cable size/conduit size	1R x 3C x 10mm <sup>2</sup> /2 x M20 x 1.5	
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 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 1359:5:2004	-	IEC:60034-30-1

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

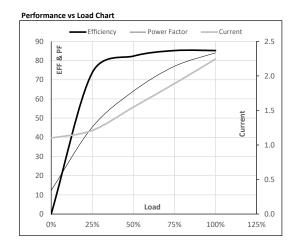




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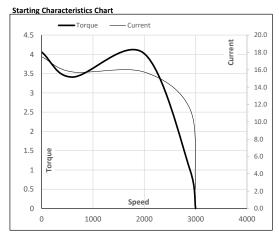
Enclosure	U	$\Delta / Y$	f	Р	Р	1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	400	Υ	50	1.1	1.5	2.2	2891	0.38	3.70	IE4	40	S1	1000	0.0018	21.5

#### Motor Load Data 5/4FL NL 1/4FL 1/2FL 3/4FL FL Load Point Current 1.1 1.2 1.5 1.9 2.2 2.7 3.7 Torque Nm 0.0 0.9 1.8 2947 3000 2972 2920 Speed r/min 2891 Efficiency % 0.0 73.7 82.3 85.2 85.2 Power Factor 12.3 45.3 64.0 77.0 84.0



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	600	1990	2891	3000	
Current	Α	17.5	15.8	11.5	2.2	1.1	
Torque	pu	4.1	3.4	4.0	1	0	



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

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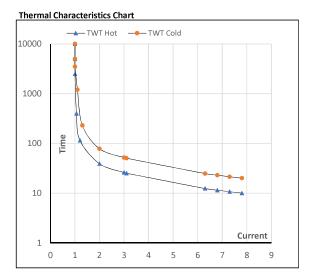




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Enclosure	U	Δ/Υ	f	Р	Р	ı	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
TEFC	400	Υ	50	1.1	1.5	2.2	2891	0.38	3.70	IE4	40	S1	1000	0.0018	21.5

Motor Speed	Motor Speed Torque Data													
Load		FL	l <sub>1</sub>	l <sub>2</sub>	l₃	I <sub>4</sub>	I <sub>5</sub>	LR						
TWT Hot	s	10000	39	26	23	19	15	10						
TWT Cold	s	10000	78	52	45	35	30	20						
Current	pu	1	2	3	4	5	5.5	7.8						



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

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