# PRODUCT INFORMATION PACKET



Model No: QCA2502A1113GAA001 Catalog No: QCA2502A1113GAA001

TerraMAX® Cast Iron Motor, 335 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 355M Frame, TEFC



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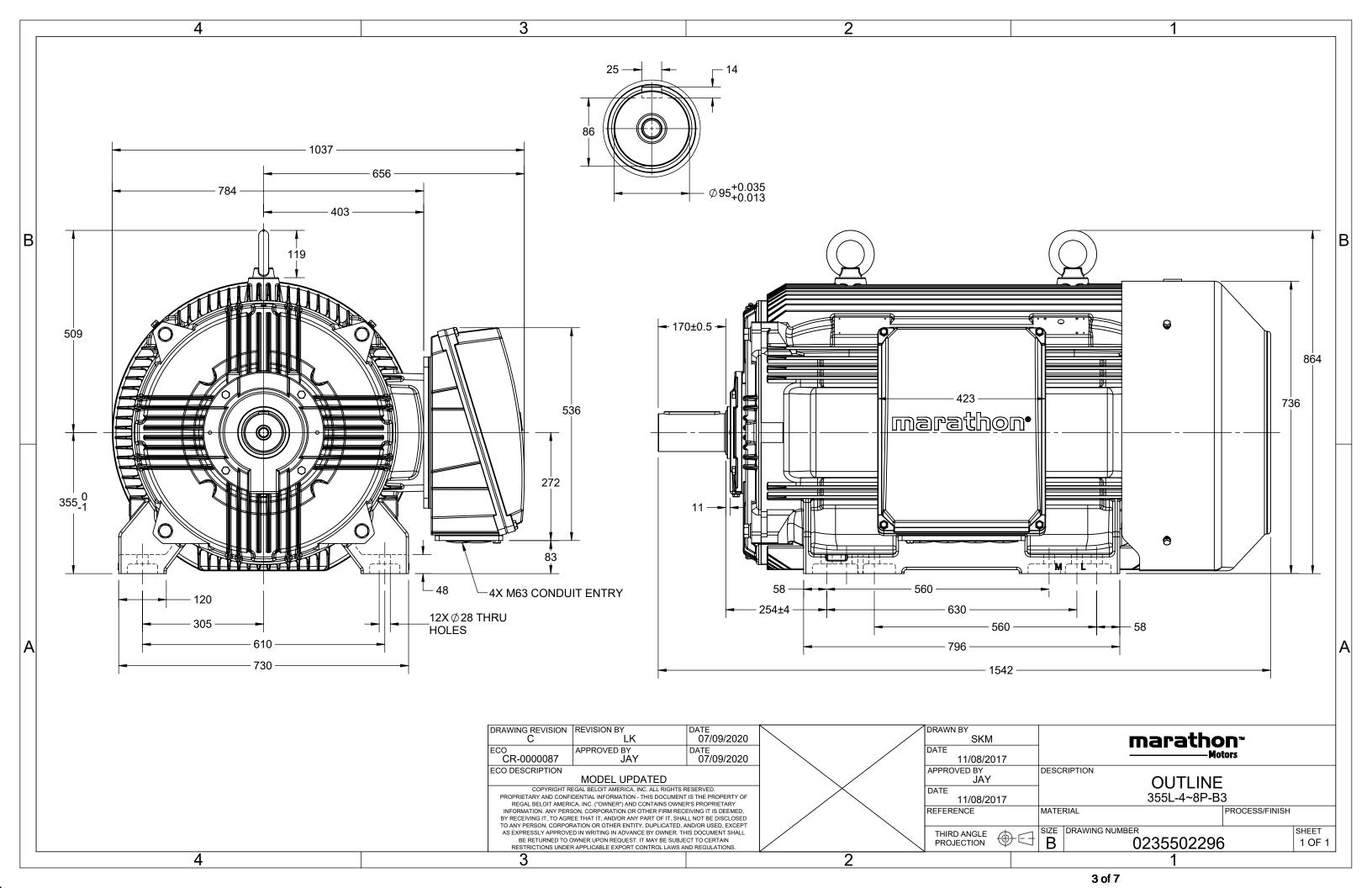
### Nameplate Specifications

Output HP	335 Hp	Output KW	250.0 kW	
Frequency	50 Hz	Voltage	400 V	
Current	433.2 A	Speed	1491 rpm	
Service Factor	1	Phase	3	
Efficiency	96.7 %	Power Factor	0.87	
Duty	S1	Insulation Class	F	
Frame	355M	Enclosure	Totally Enclosed Fan Cooled	
Thermal Protection	No Protection	Ambient Temperature	40 °C	
Drive End Bearing Size	6322	Opp Drive End Bearing Size	6322	
L No		CSA	No	
CE	Yes		55	
Number of Speeds	1	Efficiency Class	IE4	

## **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	B3	Motor Orientation	Horizontal
Drive End Bearing	C3	Opp Drive End Bearing	СЗ
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1542 mm	Frame Length	1010 mm
Shaft Diameter	95 mm	Shaft Extension	170 mm
Assembly/Box Mounting	R Side		
Outline Drawing	0235502296	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. QCA2502A1113GAA001

U	Δ/Υ	f	Р	Р	1	n	Т	IE		% EFF a	at load	d	PF	at lo	ad	I <sub>A</sub> /I <sub>N</sub>	$T_A/T_N$	$T_K/T_N$
(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	Δ	50	250	335	428.9	1491	1599.54	IE4	-	96.7	96.7	96.1	0.87	0.83	0.75	7.4	2.2	2.9

Motor type	QCA		Degree of protection	IP 55
Enclosure	TEFC		Mounting type	IM B3
Frame Material	Cast Iron		Cooling method	IC 411
Frame size	355M		Motor weight - approx.	1873
Duty	S1		Gross weight - approx.	1918
Voltage variation *	± 10%		Motor inertia	9.5981
Frequency variation *	± 5%		Load inertia	Customer to Provide
Combined variation *	10%		Vibration level	2.8
Design	N		Noise level ( 1meter distance from moto	r) 82
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 resistance	e) 80 [ Class B ]	K	LR withstand time (hot/cold)	15/30
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	6322 C3 / 6322 C3		Terminal box position	RHS
Lubrication method	Regreasable		Maximum cable size/conduit size	1R x 3C x 300mm²/4 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 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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kg

kg

kgm<sup>2</sup>

mm/s dB(A)

 $<sup>\</sup>ensuremath{^{*}}$  Voltage, Frequency and combined variation are as per IEC60034-1

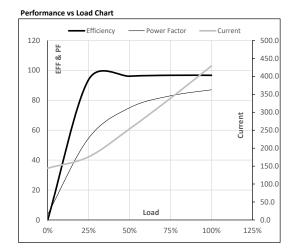




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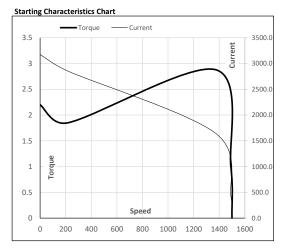
Enclosure	U	Δ/Υ	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	400	Δ	50	250	335	428.9	1491	163.11	1599.54	IE4	40	S1	1000	9.5981	1873

#### Motor Load Data 3/4FL 5/4FL 1/2FL FL Load Point NL 1/4FL Current 144.2 253.7 338.9 428.9 398.2 Torque Nm 0.0 797.4 1197.8 1599.5 Speed r/min 1500 1498 1496 1494 1491 Efficiency % 0.0 93.8 96.1 96.7 96.7 75.0 83.0 Power Factor 3.8 54.7 87.0



#### Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	214	1372	1491	1500
Current	Α	3174.0	2856.6	1646.7	428.9	144.2
Torque	pu	2.2	1.8	2.9	1	0



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

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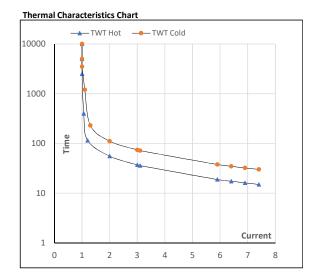




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Enclosure	U	Δ/Υ	f	Р	Р	ı	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
TEFC	400	Δ	50	250	335	428.9	1491	163.11	1599.54	IE4	40	S1	1000	9.5981	1873

Motor Speed	l Torq	ue 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	56	37	30	25	20	15
TWT Cold	S	10000	111	74	60	45	40	30
Current	pu	1	2	3	4	5	5.5	7.4



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

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