PRODUCT INFORMATION PACKET



Model No: QCA0041AF111GAA001 Catalog No: QCA0041AF111GAA001

TerraMAX® Cast Iron Motor, 5.50 HP, 3 Ph, 50 Hz, 380 V, 3000 RPM, 112M Frame, TEFC





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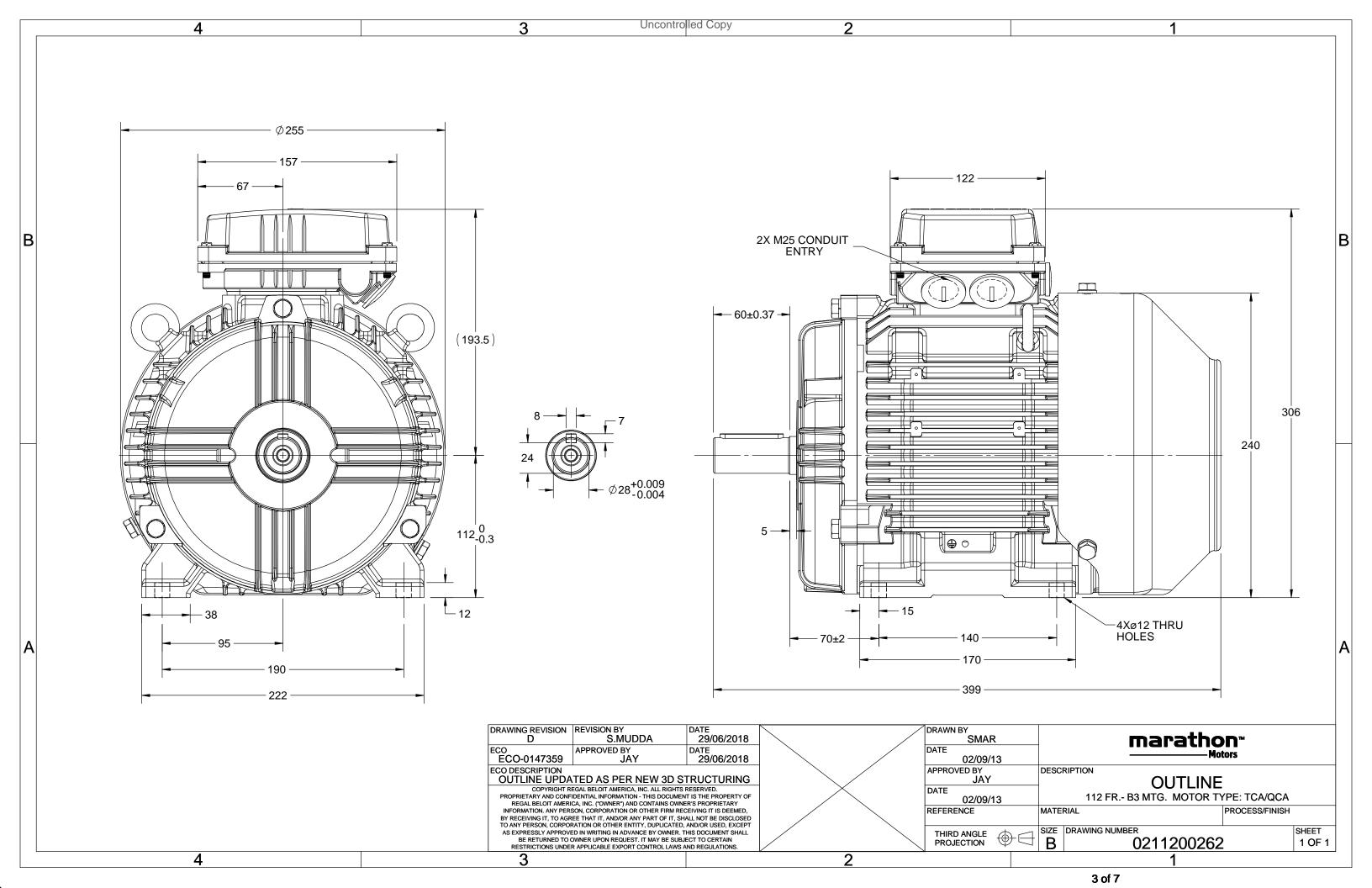
Nameplate Specifications

Output HP	5.50 Hp	Output KW	4.0 kW
Frequency	50 Hz	Voltage	380 V
Current	7.5 A	Speed	2932 rpm
Service Factor	1	Phase	3
Efficiency	90 %	Power Factor	0.91
Duty	S 1	Insulation Class	F
Frame	112M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6306	Opp Drive End Bearing Size	6206
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	В3	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	399 mm	Frame Length	174 mm
Shaft Diameter	28 mm	Shaft Extension	60 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0211200262	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

GEOM	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. QCA0041AF111GAA001

U	Δ/Υ	f	Р	Р	1	n	T	IE	9	6 EFF a	t load	l	PF	at lo	ad	I _A /I _N	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]
380	Δ	50	4	5.5	7.4	2932	13.35	IE4	-	90	90	89.9	0.91	0.87	0.77	9.9	3.3	4.6

Motor type	QCA		Degree of protection	IP 55	
Enclosure	TEFC		Mounting type	IM B3	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	112M		Motor weight - approx.	53	kg
Duty	S1		Gross weight - approx.	56	kg
Voltage variation *	± 10%		Motor inertia	0.0126	kgm²
Frequency variation *	± 5%		Load inertia	Customer to Provide	
Combined variation *	10%		Vibration level	1.6	mm/s
Design	N		Noise level (1meter distance from mote	or) 64	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 resistance)	80 [Class B]	K	LR withstand time (hot/cold)	20-Oct	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	6306-2Z / 6206-2Z		Terminal box position	TOP	
Lubrication method	Greased for life		Maximum cable size/conduit size	1R x 3C x 16mm ² /2 x M25 x 1.5	
Type of grease	NA		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.

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

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^{*} Voltage, Frequency and combine variation are as per IEC60034-1

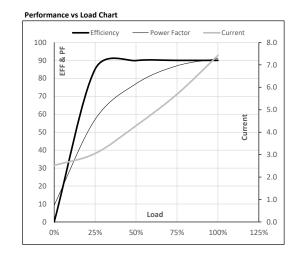




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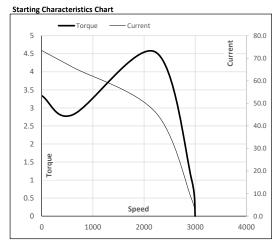
(V) Conn [Hz] [kW] [hp] [A] [RPM] [kgm] [Nm] Class [°C] [m] [kg-m²]	[kg]	2.												Δ / I		Enclosure
	[kg]	[kg-m ⁻]	[m]		[°C]	Class	[Nm]	[kgm]	[RPM]	[A]	[hp]	[kW]	[Hz]	Conn	(V)	
TEFC 380 Δ 50 4 5.5 7.4 2932 1.36 13.35 IE4 40 S1 1000 0.0126	53	0.0126	1000	S1	40	IE4	13.35	1.36	2932	7.4	5.5	4	50	Δ	380	TEFC

Motor Load Data 3/4FL 5/4FL 1/4FL 1/2FL FL Load Point NL Current 2.5 3.1 4.3 7.4 13.4 Torque Nm 0.0 3.3 6.6 10.0 Speed r/min 3000 2983 2967 2950 2932 Efficiency % 0.0 85.1 89.9 90.0 90.0 77.0 87.0 Power Factor 9.3 57.1 91.0



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	600	2221	2932	3000	
Current	Α	73.5	66.1	46.2	7.4	2.5	
Torque	pu	3.3	2.8	4.6	1	0	



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

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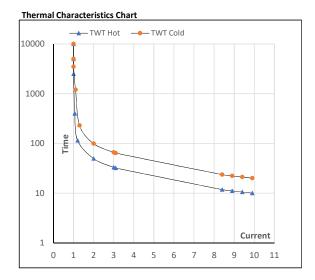




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Enclosure	U	Δ/Υ	f	Р	Р	ı	n	T	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
TEFC	380	Δ	50	4.0	5.5	7.4	2932	1.36	13.35	IE4	40	S1	1000	0.0126	53

Motor Speed	d Torq	Motor Speed Torque Data													
Load		FL	l ₁	l ₂	l ₃	I_4	I ₅	LR							
TWT Hot	S	10000	50	33	23	19	15	10							
TWT Cold	S	10000	99	66	45	35	30	20							
Current	pu	1	2	3	4	5	5.5	9.9							



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

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