# PRODUCT INFORMATION PACKET



Model No: QCA1P12A1111GAA001
Catalog No: QCA1P12A1111GAA001
Formal MAX® Coat Iron Mater 4.50 UP 3. Ph. 50 UP 400 V 4500 PPN

TerraMAX® Cast Iron Motor, 1.50 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 90S Frame, TEFC



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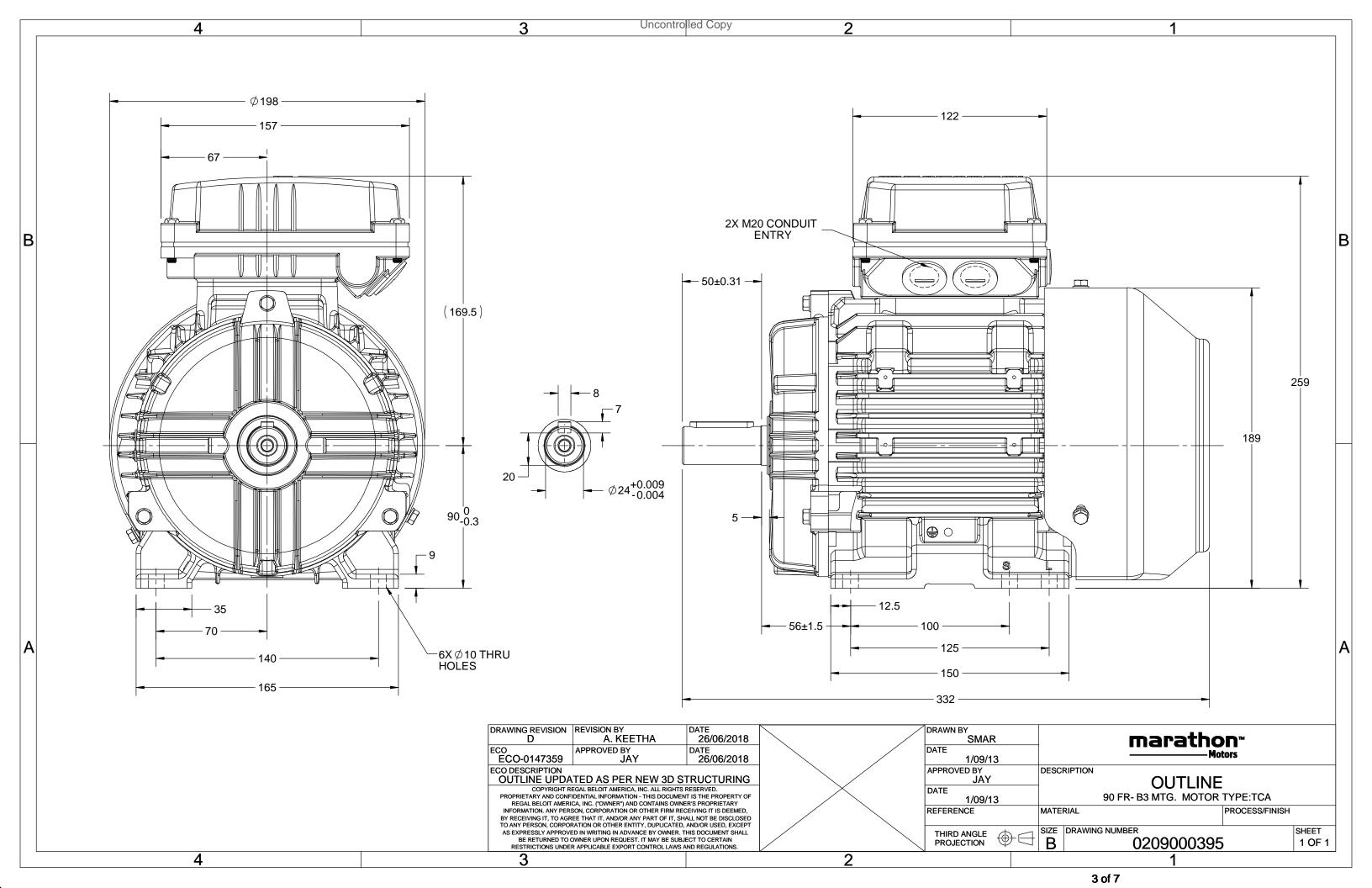
## Nameplate Specifications

Output HP	1.50 Hp	Output KW	1.1 kW
Frequency	50 Hz	Voltage	400 V
Current	2.4 A	Speed	1451 rpm
Service Factor	1	Phase	3
Efficiency	87.2 %	Power Factor	0.77
Duty	<b>S</b> 1	Insulation Class	F
Frame	90\$	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6205	Opp Drive End Bearing Size	6205
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	4	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	332 mm	Frame Length	153 mm
Shaft Diameter	24 mm	Shaft Extension	50 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0209000395	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. QCA1P12A1111GAA001

U	Δ/Υ	f	Р	Р	ı	n	T	IE	9	6 EFF a	t load	I	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]
400	Υ	50	1.1	1.5	2.4	1451	7.36	IE4	-	87.2	87.2	84.5	0.77	0.69	0.55	7.1	3.0	3.6

Motor type	QCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	90S	
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	6205-2Z / 6205-2Z	
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.	30	kg
Gross weight - approx.	31	kg
Motor inertia	0.0052	kgm <sup>2</sup>
Load inertia	Customer to Provide	
Vibration level	1.6	mm/s
Noise level ( 1meter distance from mot	tor) 54	dB(A)
No. of starts hot/cold/Equally spread	2/3/4	
Starting method	DOL	
Type of coupling	Direct	
LR withstand time (hot/cold)	15/30	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	TOP	
Maximum cable size/conduit size	1R x 3C x 10mm²/2 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

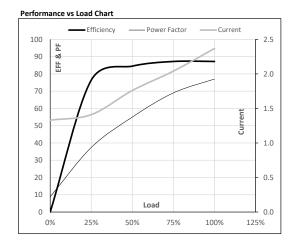




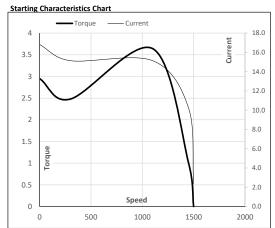
## Model No. QCA1P12A1111GAA001

Enclosure	U	Δ/Υ	f	Р	Р	1	n	T	T	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	2.4	1451	0.75	7.36	IE4	40	S1	1000	0.0052	30

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	1.3	1.4	1.8	2.0	2.4	
Torque	Nm	0.0	1.8	3.6	5.5	7.4	
Speed	r/min	1500	1488	1476	1464	1451	
Efficiency	%	0.0	76.4	84.5	87.2	87.2	
Power Factor	%	8.8	37.4	55.0	69.0	77.0	



Motor Speed Torque Data LR P-Up BD Rated NL Load Point 0 300 1102 1451 1500 Speed r/min 15.1 Current Α 16.8 10.2 2.4 1.3 Torque 0 pu



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

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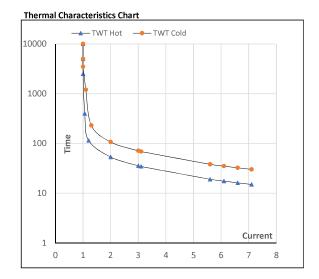




#### Model No. QCA1P12A1111GAA001

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	1.1	1.5	2.4	1451	0.75	7.36	IE4	40	S1	1000	0.0052	30

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	53	36	30	25	20	15						
TWT Cold	S	10000	107	71	60	50	40	30						
Current	pu	1	2	3	4	5	5.5	7.1						



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

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