## **PRODUCT INFORMATION PACKET**

Model No: QCA0372A1111GAA001 Catalog No: QCA0372A1111GAA001 TerraMAX® Cast Iron Motor, 50 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 225S Frame, TEFC



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Product Information Packet: Model No: QCA0372A1111GAA001, Catalog No:QCA0372A1111GAA001 TerraMAX® Cast Iron Motor, 50 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 225S Frame, TEFC

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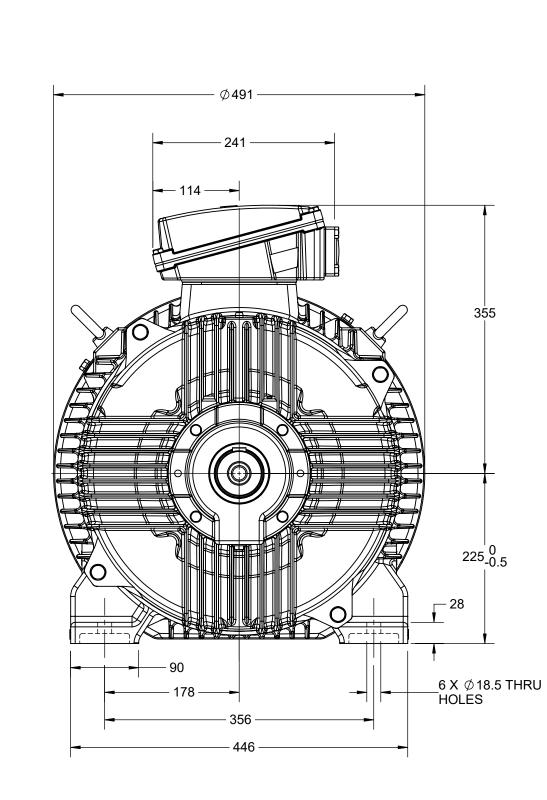
### Nameplate Specifications

Output HP	50 Hp	Output KW	37.0 kW		
Frequency	50 Hz	Voltage	400 V		
Current	68.0 A	Speed	1486 rpm		
Service Factor	1	Phase	3		
Efficiency	95.2 %	Power Factor	0.83		
Duty	S1	Insulation Class	F		
Frame	225S	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Ambient Temperature	40 °C		
Drive End Bearing Size	6313	Opp Drive End Bearing Size	6213		
UL	No	CSA	Νο		
CE	Yes	IP Code	55		

### **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	С3	
Frame Material	Cast Iron	Shaft Type	Keyed	
Overall Length	862 mm	Frame Length	425 mm	
Shaft Diameter	60 mm	Shaft Extension	140 mm	
Assembly/Box Mounting	Тор			
Connection Drawing	8442000085	Outline Drawing	0222500462	

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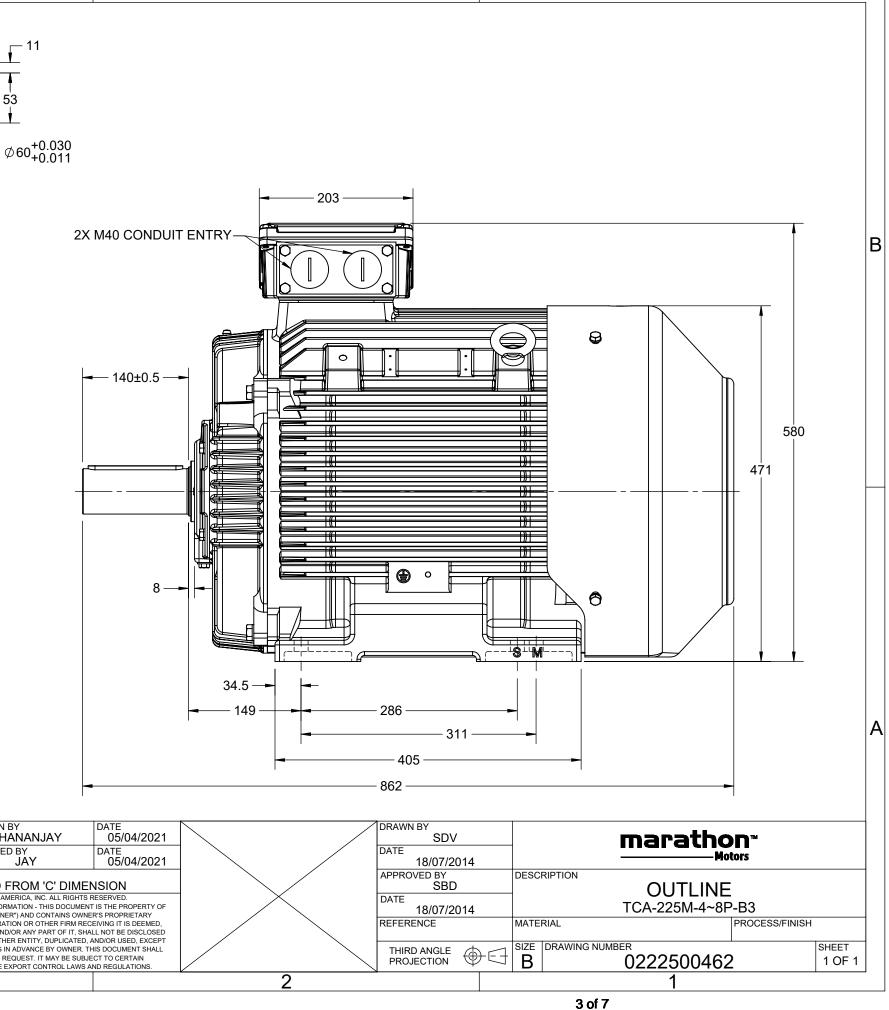
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# **TerraMAX**<sup>®</sup>

Model No. QCA0372A1111GAA001

U	$\Delta / Y$	f	Р	Р	I	n	Т	IE	ç	% EFF a	t load	ł	PF	at lo	ad	I <sub>A</sub> /I <sub>N</sub>	$T_A/T_N$	$T_{\rm K}/T_{\rm N}$
(∨)	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	37	50	67.6	1486	239.59	IE4	-	95.2	95.2	94.5	0.83	0.77	0.65	8.4	2.9	3.7
																10.55		
Motor					QCA				-		protectio	on				IP 55		
Enclosu					TEFC					unting						IM B3		
	Material	I			Cast Ir					oling me						IC 411		
Frame	size				2255						ght - app					417		kg
Duty					S1				Gro	ss weig	ght - app	rox.				447		kg
Voltage	e variatio	on *			± 10%	, D			Mo	tor iner	tia					0.7702		kgm <sup>2</sup>
Freque	ncy varia	ation *			± 5%				Loa	d inerti	а				Custo	omer to Provid	le	
Combir	ned varia	ation *			10%				Vib	ration l	evel					2.2		mm/s
Design					Ν				Noi	se level	l ( 1mete	er distar	ice fron	n motor	)	65		dB(A)
Service	factor				1.0				No.	of star	ts hot/co	old/Equ	ally spr	ead		2/3/4		
Insulati	ion class	;			F				Star	rting m	ethod					DOL		
Ambier	nt tempe	erature			-20 to +	40		°C	Тур	e of co	upling					Direct		
Tempe	rature ri	se (by i	resistanc	e)	80 [ Clas	s B ]		К	LR v	vithsta	nd time	(hot/co	d)			15/30		S
Altitud	e above	sea lev	el		1000			meter	Dire	ection c	of rotatio	on			В	i-directional		
Hazard	ous area	a classif	ication		NA				Star	ndard r	otation				Cloc	ckwise form D	E	
	Zone cla	assifica	tion		NA				Pair	nt shad	e					RAL 5014		
	Gas gro	up			NA				Acc	essorie	s							
	Temper	rature c	lass		NA					Acc	cessory -	1				PTC 150°C		
Rotor t	ype			Al	uminum [	Die cast				Acc	cessory -	2				-		
Bearing	g type			A	nti-frictic	n ball				Acc	cessory -	3				-		
DE / NI	DE bearii	ng		63	13 C3 / 6	213 C3			Ter	minal b	ox posit	ion				ТОР		
Lubrica	tion me	thod			Regrease	able			Ma	ximum	cable siz	e/cond	uit size	1R	x 3C x 5	50mm²/2 x M4	0 x 1.5	
Type of	fgrease			CHEVRO	DN SRI-2 d	or Equivale	ent		Aux	iliary te	erminal l	хос				NA		

 $I_A/I_N$  - Locked Rotor Current / Rated Current

 $T_{\rm K}/T_{\rm N}$  - Breakdown Torque / Rated Torque

 $T_{\rm A}/T_{\rm N}$  - Locked Rotor 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

\* Voltage, Frequency and combined variation are as per IEC60034-1

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 1359:5:2	004 -	IEC:60034-30-1					

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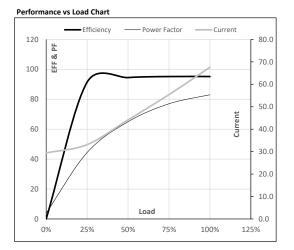


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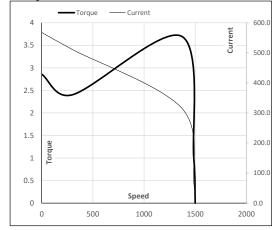
Enclosure	U	$\Delta / Y$	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	400	Δ	50	37	50	67.6	1486	24.43	239.59	IE4	40	S1	1000	0.7702	417

#### Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	29.4	33.1	44.2	55.4	67.6	
Torque	Nm	0.0	59.5	119.2	179.3	239.6	
Speed	r/min	1500	1497	1493	1490	1486	
Efficiency	%	0.0	91.4	94.5	95.2	95.2	
Power Factor	%	3.9	44.4	65.0	77.0	83.0	
Fower Factor	/0	3.5	44.4	03.0	77.0	83.0	



### Starting Characteristics Chart



Motor Speed Torque Data P-Up BD Rated NL LR Load Point Speed r/min 0 300 1367 1486 1500 Current А 567.7 511.0 316.7 67.6 29.4 0 Torque ри 2.9 2.4 3.7 1

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

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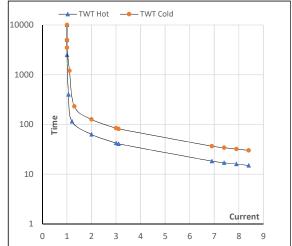
### Model No. QCA0372A1111GAA001

Enclosure	U	$\Delta / Y$	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	400	Δ	50	37	50	67.6	1486	24.43	239.59	IE4	40	S1	1000	0.7702	417

### Motor Speed Torque Data

Load		FL	$I_1$	l <sub>2</sub>	l <sub>3</sub>	$I_4$	I <sub>5</sub>	LR
TWT Hot	s	10000	63	42	34	25	20	15
TWT Cold	s	10000	126	84	70	55	50	30
Current	pu	1	2	3	4	5	5.5	8.4

### Thermal Characteristics Chart



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

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