## **PRODUCT INFORMATION PACKET**

Model No: QCA18P3A1141GAA001 Catalog No: QCA18P3A1141GAA001 TerraMAX® Cast Iron Motor, 25 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 200L Frame, TEFC



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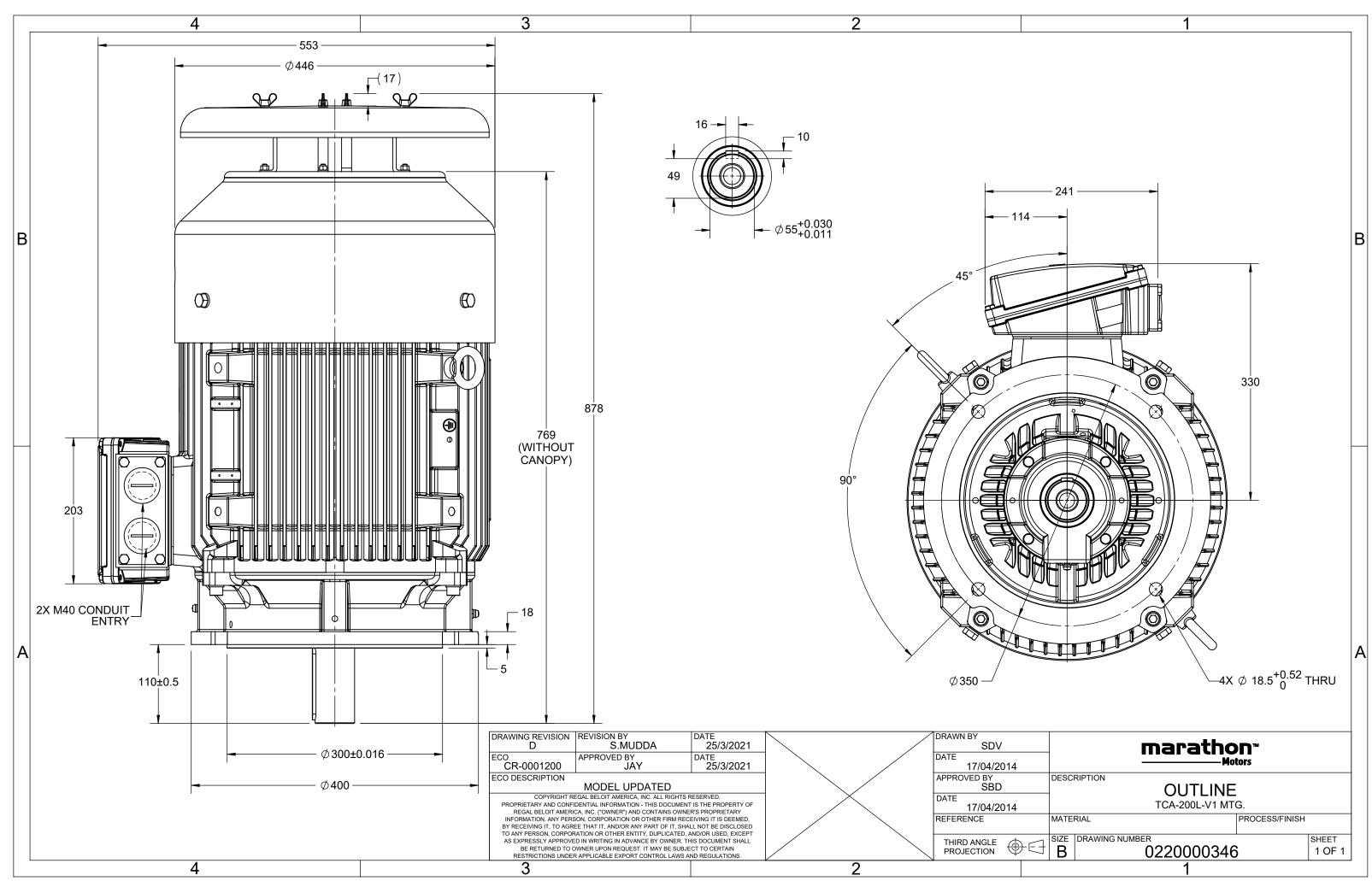
### Nameplate Specifications

Output HP	25 Нр	Output KW	18.5 kW		
Frequency	50 Hz	Voltage	400 V		
Current	36.4 A	Speed	986 rpm		
Service Factor	1	Phase	3		
Efficiency	93.4 %	Power Factor	0.79		
Duty	S1	Insulation Class	F		
Frame	200L	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Ambient Temperature	40 °C		
		•			
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6212		
Drive End Bearing Size	6312 No	-			
-		Opp Drive End Bearing Size	6212		

### **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	Rotation	Bi-Directional
Mounting	V1	Motor Orientation	Shaftdown
Drive End Bearing	C3	Opp Drive End Bearing	C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	876 mm	Frame Length	370 mm
Shaft Diameter	55 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0220000346	Connection Drawing	8442000085

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# **TerraMAX**<sup>®</sup>

Model No. QCA18P3A1141GAA001

U	Δ / Υ	f	Р	Р	1	n	т	IE		% EFF a	t load	ł	PF	at lo	bad	I <sub>A</sub> /I <sub>N</sub>	$T_A/T_N$	T <sub>κ</sub> /T <sub>N</sub>
(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	18.5	25	36.2	986	180.57	IE4	-	93.4	93.4	92.3	0.79	0.73	0.61	6.5	2.3	2.8
																		-
																•		
Motor	type				QCA				Deg	gree of	protecti	on				IP 55		
Enclos	ure				TEFC				Мо	unting	type					IM V1		
Frame	Materia	I			Cast Ire	on			Cod	oling me	ethod					IC 411		
Frame	size				200L				Mo	tor wei	ght - app	orox.				306		kg
Duty				S1					Gro	Gross weight - approx.						336		
Voltag	e variatio	on *			± 10%					Motor inertia						0.6664		kgm <sup>2</sup>
Freque	ency varia	ation *		± 5%				Loa	Load inertia					Custo	omer to Pro	vide		
Combi	ned varia	ation *			10%				Vib	ration l	evel					2.2		mm/s
Design					Ν				Noi	Noise level ( 1meter distance from motor)					) 62			dB(A)
Service	e factor				1.0				No	of star	ts hot/c	old/Equ	ally spr	ead		2/3/4		
Insulat	ion class	;			F				Sta	rting m	ethod					DOL		
Ambie	nt tempe	erature			-20 to +	-40		°C	Тур	e of co	upling					Direct		
Tempe	erature ri	ise (by r	resistanc	ce)	80 [ Clas	s B ]		К	LR	withsta	nd time	(hot/co	ld)			15/30		S
Altitud	e above	sea lev	el		1000	)		meter	Dire	ection c	of rotatio	on			В	i-directiona	I	
Hazard	lous area	a classif	ication		NA				Sta	ndard r	otation				Cloc	ckwise form	DE	
	Zone cla	assifica	tion		NA				Pai	nt shad	e					RAL 5014		
	Gas gro	oup			NA				Acc	essorie	s							
	Temper	rature o	lass		NA					Acc	essory -	· 1				PTC 150°C		
Rotor	type			Al	uminum [	Die cast				Acc	essory -	- 2				-		
Bearin	g type			A	nti-frictic	on ball				Acc	essory -	- 3				-		
DE / N	DE beari	ng		63	12 C3 / 6	212 C3			Ter	minal b	ox posit	ion				TOP		
Lubrica	ation me	thod			Regrease	able			Ma	ximum	cable siz	ze/cond	uit size	1R	x 3C x 5	50mm²/2 x I	M40 x 1.5	
Туре о	f grease			CHEVRO	ON SRI-2 d	or Equivale	ent		Aux	diliary te	erminal l	хос				NA		

I<sub>A</sub>/I<sub>N</sub> - Locked Rotor Current / Rated Current

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

 $T_A/T_N$  - 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 da	ta are subject to chang	ge. There may be slight v	ariations between calculated v	alues in this datashe	et and the motor name	plate 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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Model No. QCA18P3A1141GAA001

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	18.5	25	36.2	986	18.41	180.57	IE4	40	S1	1000	0.6664	306

#### Motor Load Data

Motor Speed Torque Data

r/min

А

pu

Load Point

Speed

Current

Torque

	NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
А	16.6	18.4	24.1	29.8	36.2	
Nm	0.0	44.7	89.6	134.9	180.6	
r/min	1000	997	993	990	986	
%	0.0	88.1	92.3	93.4	93.4	
%	5.1	41.6	61.0	73.0	79.0	
	Nm r/min %	A 16.6   Nm 0.0   r/min 1000   % 0.0	A 16.6 18.4   Nm 0.0 44.7   r/min 1000 997   % 0.0 88.1	A 16.6 18.4 24.1   Nm 0.0 44.7 89.6   r/min 1000 997 993   % 0.0 88.1 92.3	A 16.6 18.4 24.1 29.8   Nm 0.0 44.7 89.6 134.9   r/min 1000 997 993 990   % 0.0 88.1 92.3 93.4	A 16.6 18.4 24.1 29.8 36.2   Nm 0.0 44.7 89.6 134.9 180.6   r/min 1000 997 993 990 986   % 0.0 88.1 92.3 93.4 93.4

P-Up

200

211.7

1.9

LR

0

235.2

2.3

BD

907

130.5

2.8

Rated

986

36.2

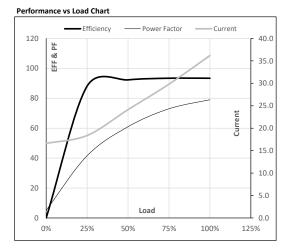
1

NL

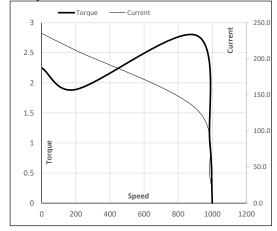
1000

16.6

0



### Starting Characteristics Chart



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

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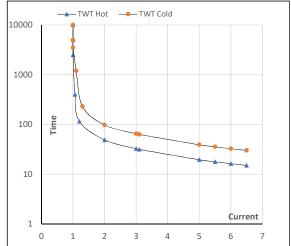
### Model No. QCA18P3A1141GAA001

Enclosure	U	$\Delta / Y$	f	Р	Р	Ι	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	18.5	25	36.2	986	18.41	180.57	IE4	40	S1	1000	0.6664	306

### Motor Speed Torque Data

Load		FL	$I_1$	I <sub>2</sub>	l <sub>3</sub>	$I_4$	I <sub>5</sub>	LR
TWT Hot	s	10000	49	33	25	20	18	15
TWT Cold	s	10000	98	65	50	39	36	30
Current	ри	1	2	3	4	5	5.5	6.5

### Thermal Characteristics Chart



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

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