PRODUCT INFORMATION PACKET

Model No: QCA0304A1141GAA001 Catalog No: QCA0304A1141GAA001 TerraMAX® Cast Iron Motor, 40 HP, 3 Ph, 50 Hz, 400 V, 750 RPM, 250M Frame, TEFC



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Rexnord



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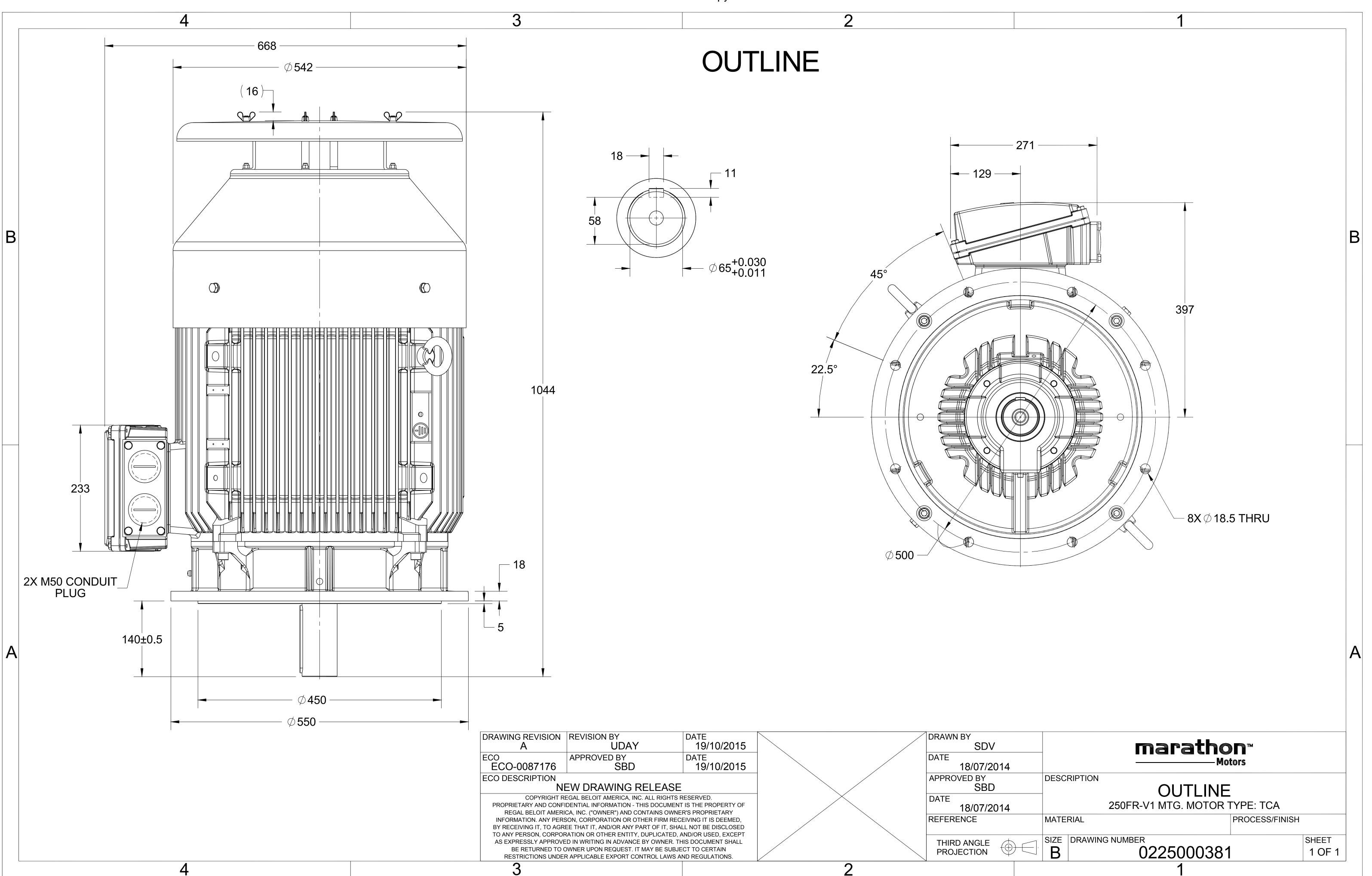
Nameplate Specifications

Output HP	40 Hp	Output KW	30.0 kW
Frequency	50 Hz	Voltage	400 V
Current	59.3 A	Speed	738 rpm
Service Factor	1	Phase	3
Efficiency	92.7 %	Power Factor	0.79
Duty	S1	Insulation Class	F
Frame	250M	Enclosure	Totally Enclosed Fan Cooled
	ZOOM	2.10.000	
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection Drive End Bearing Size	No Protection 6314	Ambient Temperature Opp Drive End Bearing Size	40 °C 6314

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	8	Rotation	Bi-Directional
Mounting	V1	Motor Orientation	Shaftdown
Drive End Bearing	C3	Opp Drive End Bearing	С3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1044 mm	Frame Length	460 mm
Shaft Diameter	65 mm	Shaft Extension	140 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0225000381	Connection Drawing	8442000085

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TerraMAX[®]

Model No. QCA0304A1141GAA001

U	Δ / Y	f	Р	Р	I	n	Т	IE	ç	% EFF a	t_load	ł	PF	at_lo	bad	I _A /I _N	T _A /T _N	T _K /T _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	30	40	59.1	738	386.15	IE4	-	92.7	92.7	92.3	0.79	0.74	0.63	5.1	1.8	2.2
Motor	type				QCA				Dec	ree of	protecti	on				IP 55		
Enclosi	••				TEFC					unting		UII				IM V1		
	Material				Cast Ire					ling me						IC 411		
Frame		1			250N					•	ght - ap	arov				510		kg
Duty	size				2301V						ght - app					545		-
,		*			± 10%					tor iner	, ,,	rox.				1.7558		kg kgm ²
	e variatio				± 5%										Curt	omer to Provid	10	ĸgm
	ncy varia				± 5%					d inerti					Cusic	2.2	le	
	ned varia	ation *								ration l								mm/s
Design	<i>.</i> .				N						(1mete)	63		dB(A)
Service					1.0						ts hot/c	old/Equ	ally spr	ead		2/3/4		
	on class				F					rting m						DOL		
	nt tempe				-20 to +			°C		e of co						Direct		
		• •	resistanc	ce)	80 [Clas	-		К			nd time	· ·	d)			15/30		S
Altitud	e above	sea lev	el		1000			meter	Dire	ection c	of rotatio	on				i-directional		
Hazard	ous area				NA				Star	ndard r	otation				Cloc	kwise form D	E	
	Zone cla	assifica	tion		NA				Pair	nt shad	e					RAL 5014		
	Gas gro	oup			NA				Acc	essorie	S							
	Temper	rature o	lass		NA					Acc	cessory	- 1				PTC 150°C		
Rotor t	уре			Al	uminum D	ie cast				Acc	cessory -	- 2				-		
Bearing	g type			A	Anti-frictio	n ball				Acc	cessory -	- 3				-		
DE / N	DE bearii	ng		63	814 C3 / 6	314 C3			Ter	minal b	ox posit	ion				TOP		
Lubrica	tion me	thod			Regrease	ble			Ma	ximum	cable siz	ze/cond	uit size	1R	x 3C x 9	95mm²/2 x M5	50 x 1.5	
Type of	fgrease			CHEVRO	ON SRI-2 c	r Equivale	ent		Aux	iliary te	erminal	box				NA		

 I_A/I_N - 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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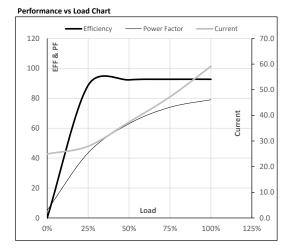


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[kg-m ²]	[kg]
1.7558	510
j	1.7558

Motor Load Data

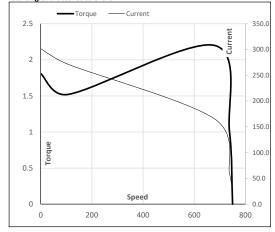
	NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
А	25.0	28.0	37.4	47.2	59.1	
Nm	0.0	95.4	191.4	288.3	386.2	
r/min	750	747	744	741	738	
%	0.0	88.6	92.3	92.7	92.7	
%	5.1	43.5	63.0	74.0	79.0	
	Nm r/min %	A 25.0 Nm 0.0 r/min 750 % 0.0	A 25.0 28.0 Nm 0.0 95.4 r/min 750 747 % 0.0 88.6	A 25.0 28.0 37.4 Nm 0.0 95.4 191.4 r/min 750 747 744 % 0.0 88.6 92.3	A 25.0 28.0 37.4 47.2 Nm 0.0 95.4 191.4 288.3 r/min 750 747 744 741 % 0.0 88.6 92.3 92.7	A 25.0 28.0 37.4 47.2 59.1 Nm 0.0 95.4 191.4 288.3 386.2 r/min 750 747 744 741 738 % 0.0 88.6 92.3 92.7 92.7



Motor Speed Torque Data

motor oper	a rorque bu						
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	107	679	738	750	
Current	А	301.6	271.4	165.6	59.1	25.0	
Torque	pu	1.8	1.5	2.2	1	0	





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

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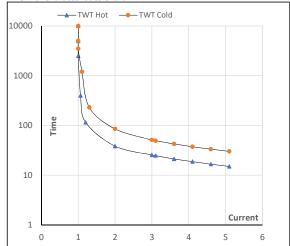
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Y	50	30	40	59.1	738	39.38	386.15	IE4	40	S1	1000	1.7558	510

Motor Speed Torque Data

Load		FL	I_1	I ₂	I ₃	I_4	I ₅	LR
TWT Hot	s	10000	38	26	19	17	16	15
TWT Cold	s	10000	85	51	38	35	32	30
Current	pu	1	2	3	4	4.5	5	5.1

Thermal Characteristics Chart



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

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