PRODUCT INFORMATION PACKET

Model No: QCA0373A1141GAA001 Catalog No: QCA0373A1141GAA001 TerraMAX® Cast Iron Motor, 50 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 250M Frame, TEFC



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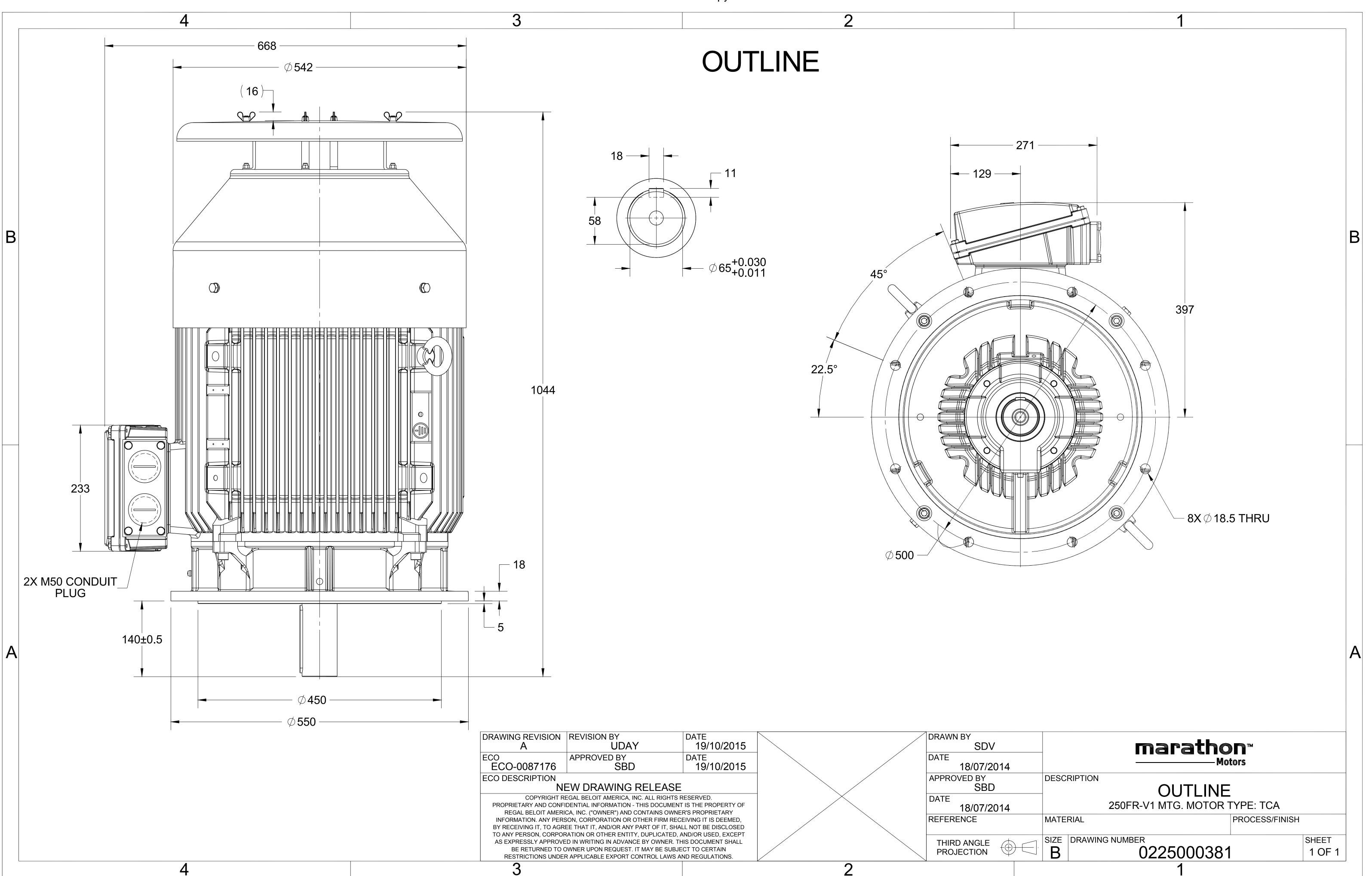
Nameplate Specifications

Output HP	50 Hp	Output KW	37.0 kW
Frequency	50 Hz	Voltage	400 V
Current	70.3 A	Speed	988 rpm
Service Factor	1	Phase	3
Efficiency	94.5 %	Power Factor	0.81
Duty	S1	Insulation Class	F
Frame	250M	Enclosure	Totally Enclosed Fan Cooled
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
		· · · ·	
Drive End Bearing Size	6314	Opp Drive End Bearing Size	6314

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	СЗ
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		
Connection Drawing	8442000085	Outline Drawing	0225000381

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Model No. QCA0373A1141GAA001

U	Δ / Y	f	Р	Р	I	n	Т	IE	ġ	% EFF a	t load	ł	PF	at_lo	bad	I _A /I _N	T_A/T_N	$T_{\rm K}/T_{\rm N}$
(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	Δ	50	37	50	69.8	988	360.30	IE4	-	94.5	94.5	93.4	0.81	0.75	0.62	7.3	2.7	3.2
Motor	type				QCA				Dee	ree of	protecti	on				IP 55		
Enclosu					TEFC	:				unting						IM V1		
Frame	Material	I			Cast Ire	on				oling me						IC 411		
Frame	size				250N	1				Motor weight - approx.						530		kg
Duty					S1				Gro	ss weig	ht - app	rox.				565		kg
Voltage	e variatio	on *			± 10%	± 10%				Motor inertia						1.9403		
Freque	ncy varia	ation *	* ± 5%				Loa	Load inertia						omer to Prov	ide	kgm ²		
Combin	ned varia	ation *			10%			Vib	Vibration level						2.2		mm/s	
Design					Ν				Noi	Noise level (1meter distance from motor)					·) 65			dB(A)
Service	factor				1.0				No.	of star	ts hot/c	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	Type of coupling						Direct		
Tempe	rature ri	se (by i	resistanc	ce)	80 [Clas	s B]		К	LR v	LR withstand time (hot/cold)					15/30			s
Altitud	e above	sea lev	el		1000)		meter	Dire	Direction of rotation						i-directional		
Hazard	ous area	a classif	ication		NA				Star	ndard r	otation				Cloc	ckwise form [DE	
	Zone cla	assifica	tion		NA				Pair	nt shad	е					RAL 5014		
	Gas gro	up			NA				Acc	essorie	s							
	Temper	rature o	lass		NA					Accessory - 1						PTC 150°C		
Rotor t	уре			Al	Aluminum Die cast				Accessory - 2					-				
Bearing	g type			A	Anti-frictic	on ball				Acc	essory -	3				-		
DE / N	DE bearii	ng		63	314 C3 / 6	314 C3			Ter	minal b	ox posit	ion				TOP		
Lubrica	tion me	thod			Regrease	able			Ma	ximum	cable siz	e/cond	uit size	1R	x 3C x 9	95mm²/2 x M	50 x 1.5	
Type of	f grease			CHEVRO	ON SRI-2 o	or Equival	ent		Aux	iliary te	erminal l	хох				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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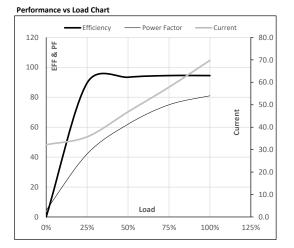


Model No. QCA0373A1141GAA001

Enclosure	U	Δ / 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 ²]	[kg]
TEFC	400	Δ	50	37	50	69.8	988	36.74	360.30	IE4	40	S1	1000	1.9403	530
ilic	400	Δ	50	37	50	69.8	988	36.74	360.30	IE4	40	51	1000	1.9403	

Motor Load Data

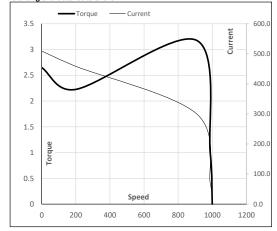
	NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
А	32.2	35.7	46.9	57.8	69.8	
Nm	0.0	89.3	179.1	269.4	360.3	
r/min	1000	997	994	991	988	
%	0.0	89.6	93.4	94.5	94.5	
%	4.5	42.1	62.0	75.0	81.0	
	Nm r/min %	Nm 0.0 r/min 1000 % 0.0	Nm 0.0 89.3 r/min 1000 997 % 0.0 89.6	Nm 0.0 89.3 179.1 r/min 1000 997 994 % 0.0 89.6 93.4	Nm 0.0 89.3 179.1 269.4 r/min 1000 997 994 991 % 0.0 89.6 93.4 94.5	Nm 0.0 89.3 179.1 269.4 360.3 r/min 1000 997 994 991 988 % 0.0 89.6 93.4 94.5 94.5



Motor Speed Torque Data

motor opec	a rorque ba						
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	200	907	988	1000	
Current	А	509.3	458.4	301.1	69.8	32.2	
Torque	pu	2.7	2.2	3.2	1	0	

Starting Characteristics Chart



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

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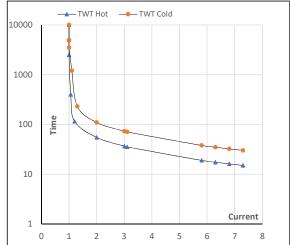
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	37	50	69.8	988	36.74	360.30	IE4	40	S1	1000	1.9403	530

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	55	37	30	25	20	15
TWT Cold	s	10000	110	73	60	45	40	30
Current	ри	1	2	3	4	5	5.5	7.3

Thermal Characteristics Chart



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

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