PRODUCT INFORMATION PACKET

Model No: QCA0373A1133GAA001 Catalog No: QCA0373A1133GAA001 TerraMAX® Cast Iron Motor, 50 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 250M Frame, TEFC



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Nameplate Specifications

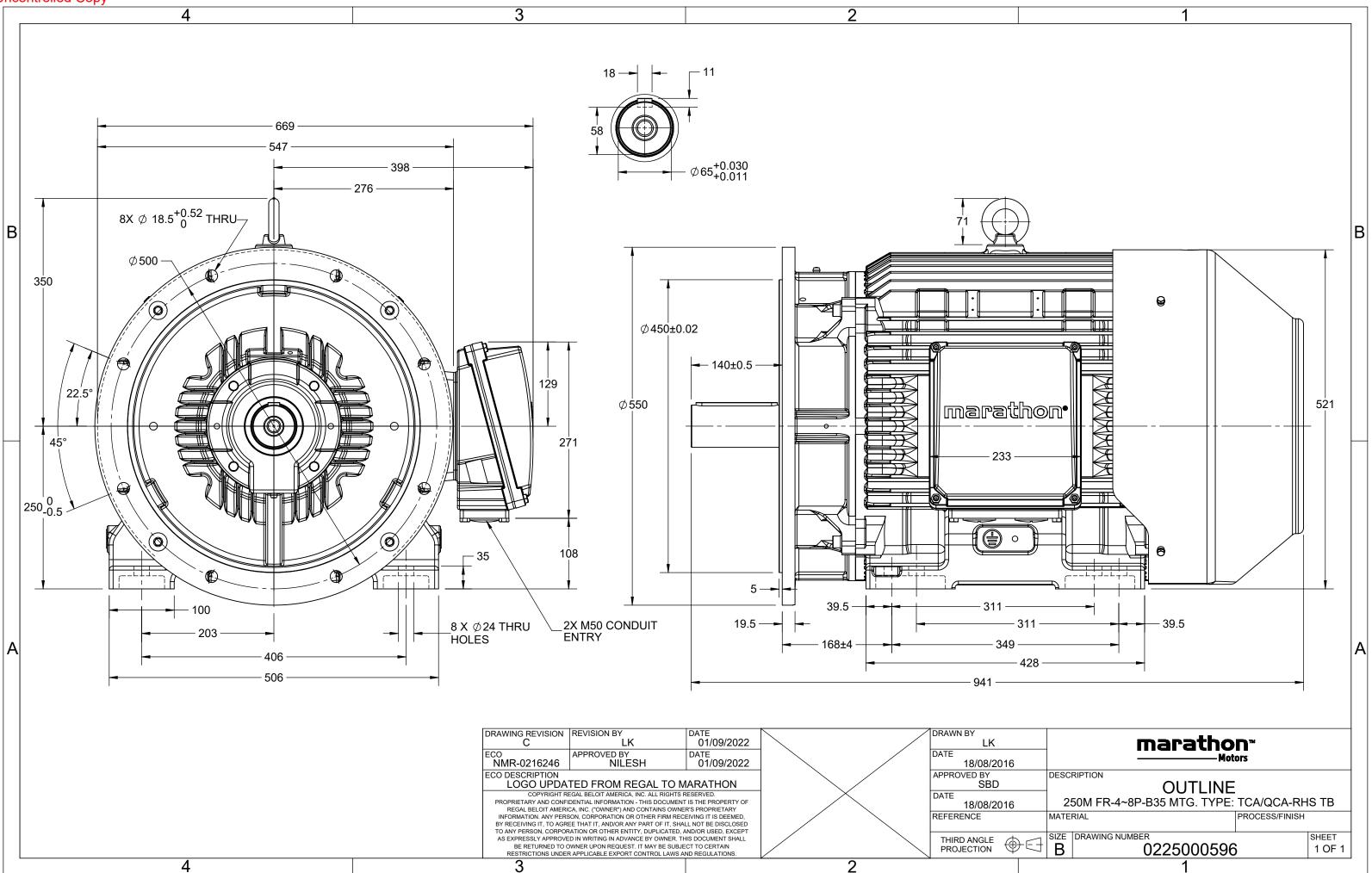
Output HP	50 Hp	Output KW	37.0 kW
Frequency	50 Hz	Voltage	400 V
Current	70.3 A	Speed	988 rpm
Service Factor	1	Phase	3
Efficiency	94.5 %	Power Factor	0.81
Duty	S1	Insulation Class	F
Frame	250M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection 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	B35	Motor Orientation	Horizontal
Drive End Bearing	СЗ	Opp Drive End Bearing	С3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	941 mm	Frame Length	460 mm
Shaft Diameter	65 mm	Shaft Extension	140 mm
Assembly/Box Mounting	R Side		
Outline Drawing	0225000596	Connection Drawing	8442000085

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TerraMAX[®]

RHS

1R x 3C x 95mm²/2 x M50 x 1.5

NA

Model No. QCA0373A1133GAA001

U	Δ/Υ	f	Р	Р	I	n	т	IE	q	% EFF a	t load	d	PF	at lo	bad	I _A /I _N	T_A/T_N	$T_{\rm K}/T_{\rm N}$
(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL		1/2FL	FL		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				Deg	ree of	orotecti	on				IP 55		
Enclos	ure				TEFC				Mo	unting	type					IM B35		
Frame	Materia	I			Cast Iro	on	Cooling method								IC 411			
Frame	size				250N	1	Motor weight - approx.								535		kg	
Duty					S1			Gross weight - approx.							570		kg	
Voltag	e variatio	on *			± 10%	b b		Motor inertia							1.9403		kgm ²	
Freque	ency vari	ation *			± 5%				Loa	Load inertia						omer to Prov	vide	
Combi	ned varia	ation *			10%				Vib	Vibration level						2.2		mm/s
Design					Ν				Noi	Noise level (1meter distance from motor)						65		
Service	e factor				1.0				No.	No. of starts hot/cold/Equally spread						2/3/4		
Insulat	ion class	;			F				Star	Starting method						DOL		
Ambie	nt tempe	erature			-20 to +	40		°C	Тур	Type of coupling						Direct		
Tempe	rature ri	ise (by r	resistanc	e)	80 [Class	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	l	
Hazard	lous area	a classif	ication		NA				Star	Standard rotation						Clockwise form DE		
	Zone cl	assifica	tion		NA					Paint shade						RAL 5014		
	Gas gro	oup			NA				Acc	essorie	s							
	Temper	rature o	lass		NA					Acc	essory -	- 1				PTC 150°C		
Rotor t	суре			Alı	uminum D	Die cast				Accessory - 2						-		
Bearin	g type			A	nti-frictio	n ball				Acc	cessory -	- 3				-		

 I_A/I_N - Locked Rotor Current / Rated Current

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

Terminal box position

Auxiliary terminal box

Maximum cable size/conduit size

 T_A/T_N - Locked Rotor Torque / Rated Torque

DE / NDE bearing

Type of grease

Lubrication method

NOTE
All performance values at rated voltage and frequency.

All performance parameters are subjected to standard tolerance as per IEC 60034-1

6314 C3 / 6314 C3

Regreasable

CHEVRON SRI-2 or Equivalent

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

Technical da	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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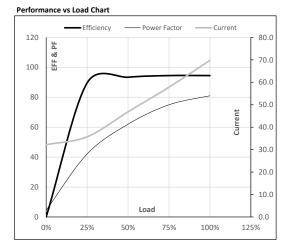


Model No. QCA0373A1133GAA001

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	535

Motor Load Data

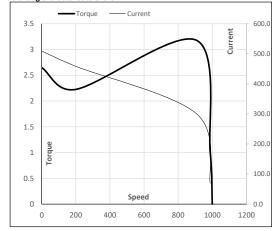
	NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Α	32.2	35.7	46.9	57.8	69.8	
Nm	0.0	89.3	179.1	269.4	360.3	
r/min	1000	997	994	991	988	
%	0.0	89.6	93.4	94.5	94.5	
%	4.5	42.1	62.0	75.0	81.0	
	Nm r/min %	A 32.2 Nm 0.0 r/min 1000 % 0.0	A 32.2 35.7 Nm 0.0 89.3 r/min 1000 997 % 0.0 89.6	A 32.2 35.7 46.9 Nm 0.0 89.3 179.1 r/min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



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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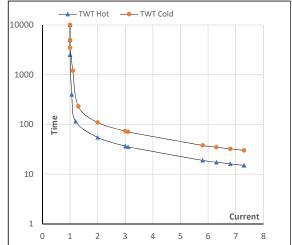
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	37	50	69.8	988	36.74	360.30	IE4	40	S1	1000	1.9403	535

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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