PRODUCT INFORMATION PACKET

Model No: QCA0301A1133GAA001 Catalog No: QCA0301A1133GAA001 TerraMAX® Cast Iron Motor, 40 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 200L Frame, TEFC



Regal and Marathon are trademarks of Regal Rexnord Corporation or one of its affiliated companies. ©2022 Regal Rexnord Corporation, All Rights Reserved. MC017097E



marathon[®] Motors



Product Information Packet: Model No: QCA0301A1133GAA001, Catalog No:QCA0301A1133GAA001 TerraMAX® Cast Iron Motor, 40 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 200L Frame, TEFC

marathon®

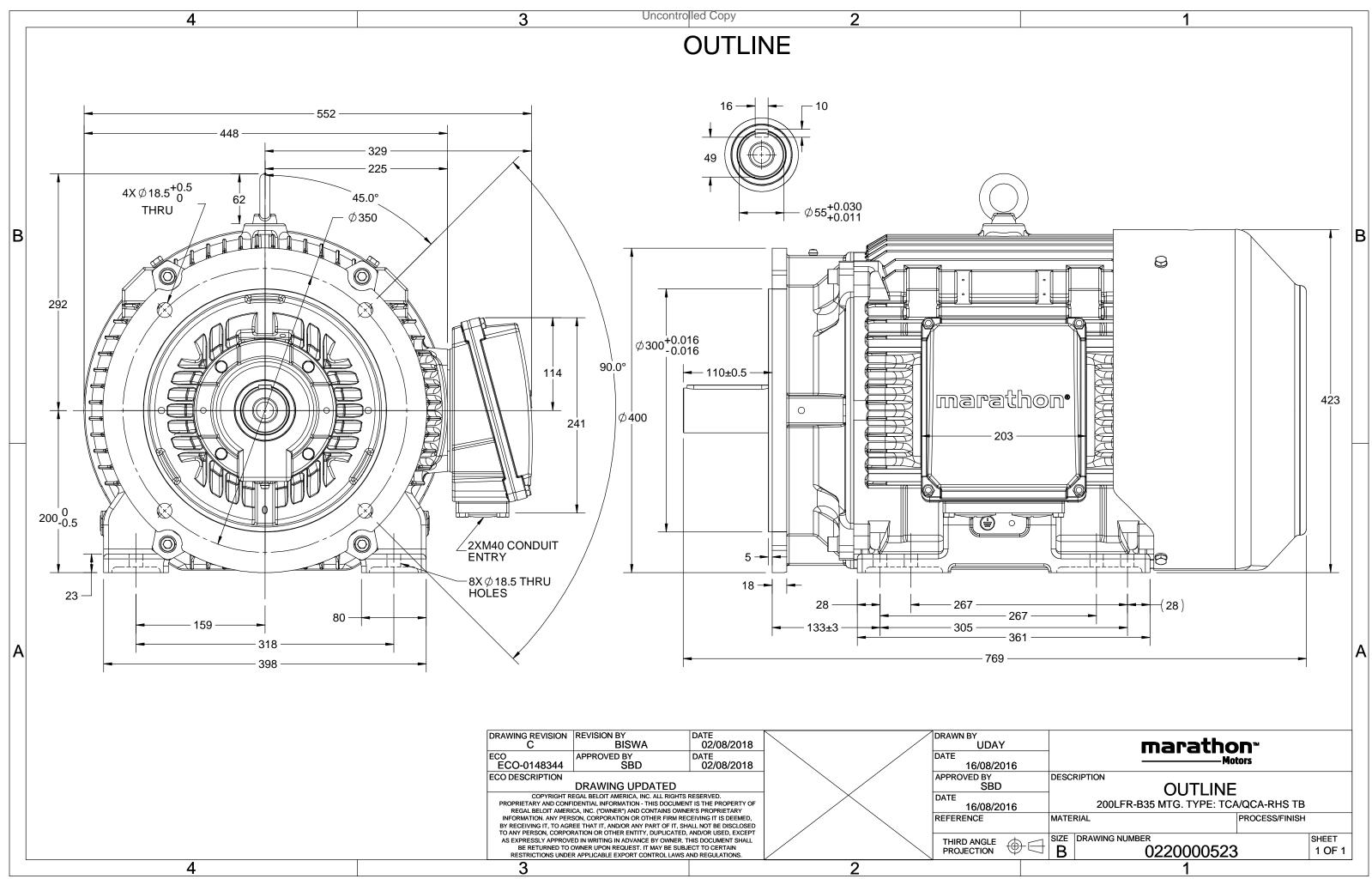
Nameplate Specifications

Output HP	40 Hp	Output KW	30.0 kW
Frequency	50 Hz	Voltage	400 V
Current	52.7 A	Speed	2974 rpm
Service Factor	1	Phase	3
Efficiency	94.5 %	Power Factor	0.87
Duty	S1	Insulation Class	F
Frame	200L	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	200L No Protection	Enclosure Ambient Temperature	Totally Enclosed Fan Cooled 40 °C
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection Drive End Bearing Size	No Protection 6312	Ambient Temperature Opp Drive End Bearing Size	40 °C 6212

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	Rotation	Bi-Directional
Mounting	B35	Motor Orientation	Horizontal
Drive End Bearing	C3	Opp Drive End Bearing	C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	769 mm	Frame Length	370 mm
Shaft Diameter	55 mm	Shaft Extension	110 mm
Assembly/Box Mounting	R Side		
Outline Drawing	0220000523	Connection Drawing	8442000085

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:12/01/2022



3 of 7





TerraMAX[®]

Model No. QCA0301A1133GAA001

U	Δ / Y	f	Р	Р	Ι	n	Т	IE	9	% 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	30	40	52.7	2974	95.79	IE4	-	94.5	94.5	92.8	0.87	0.83	0.74	7.2	2.1	3.6
Motor	typo				QCA				Dor	roo of	protecti	00				IP 55		
Enclosu	<i>'</i> ·				TEFC					unting		011				IM B35		
	Material				Cast Ir					ling me						IC 411		
Frame					200L					0	ght - app	arox				318		kg
Duty	JILC										ht - app					348		kg
,	e variatio	n *			± 10%	6					, ,,	10/1.				0.3060		kgm ²
U	ncy varia				± 5%				Motor inertia Load inertia						Cust	omer to Provid	le	
	ned varia				10%					ration le	-					2.2		mm/s
Design					N			Noi	Noise level (1meter distance from motor)						73		dB(A)	
Service	factor				1.0				No.	No. of starts hot/cold/Equally spread					2/3/4			
Insulati	on class				F				Sta	rting me	ethod		, ,			DOL		
Ambier	nt tempe	erature			-20 to +	-40		°C	Тур	e of co	upling					Direct		
Tempe	rature ri	se (by r	esistanc	ce)	80 [Clas	s B]		К	LRN	withsta	nd time	(hot/co	ld)			15/30		S
Altitude	e above	sea leve	el		1000)		meter	Dire	ection o	of rotatio	on			В	i-directional		
Hazard	ous area	classif	ication		NA				Sta	ndard r	otation				Clo	ckwise form DB		
	Zone cla	assificat	tion		NA				Pair	nt shad	e					RAL 5014		
	Gas gro	up			NA				Acc	essorie	s							
	Temper	ature c	lass		NA					Acc	cessory -	· 1				PTC 150°C		
Rotor t	уре			Alu	uminum [Die cast				Acc	cessory -	2				-		
Bearing	g type			A	nti-frictio	on ball				Acc	cessory -	- 3				-		
DE / NE	DE bearii	ng		63	12 C3 / 6	212 C3			Ter	minal b	ox posit	ion				RHS		
Lubrica	tion me	thod			Regreas	able			Ma	ximum	cable siz	e/cond	uit size	1R	x 3C x !	50mm²/2 x M4	0 x 1.5	
Type of	fgrease			CHEVRC	ON SRI-2 o	or Equivale	ent		Aux	iliary te	erminal l	хос				NA		

 $I_{\text{A}}/I_{\text{N}}$ - Locked Rotor Current / Rated Current

T_K/T_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 dat	ta are subject to chang	ge. There may be slight v	variations between calculated	values in this datash	eet and the motor nam	eplate 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

REGAL

marathon®

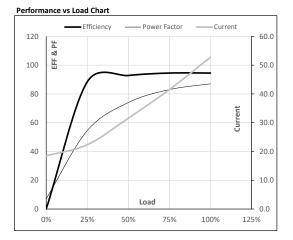


Model No. QCA0301A1133GAA001

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	30	40	52.7	2974	9.77	95.79	IE4	40	S1	1000	0.3060	318

Motor Load Data

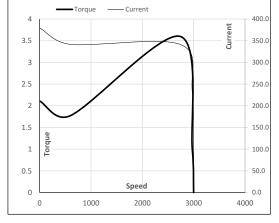
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	18.5	22.3	31.6	41.5	52.7	
Torque	Nm	0.0	23.8	47.7	71.7	95.8	
Speed	r/min	3000	2993	2987	2981	2974	
Efficiency	%	0.0	88.4	92.8	94.5	94.5	
Power Factor	%	7.1	54.5	74.0	83.0	87.0	



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	600	2736	2974	3000	
Current	А	379.6	341.7	232.1	52.7	18.5	
Torque	pu	2.1	1.8	3.6	1	0	

Starting Characteristics Chart



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

Issued By Issued Date

REGAL





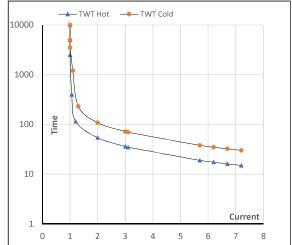
Model No. QCA0301A1133GAA001

Enclosure	U	Δ / 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 ²]	[kg]
TEFC	400	Δ	50	30	40	52.7	2974	9.77	95.79	IE4	40	S1	1000	0.3060	318

Motor Speed Torque Data

Load		FL	I_1	I_2	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	54	36	30	25	20	15
TWT Cold	s	10000	108	72	65	50	45	30
Current	pu	1	2	3	4	5	5.5	7.2

Thermal Characteristics Chart



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

Issued By Issued Date

REGAL