PRODUCT INFORMATION PACKET

Model No: QCA0044A1131GAA001 Catalog No: QCA0044A1131GAA001 TerraMAX® Cast Iron Motor, 5.50 HP, 3 Ph, 50 Hz, 400 V, 750 RPM, 160M 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







Product Information Packet: Model No: QCA0044A1131GAA001, Catalog No:QCA0044A1131GAA001 TerraMAX® Cast Iron Motor, 5.50 HP, 3 Ph, 50 Hz, 400 V, 750 RPM, 160M Frame, TEFC

marathon®

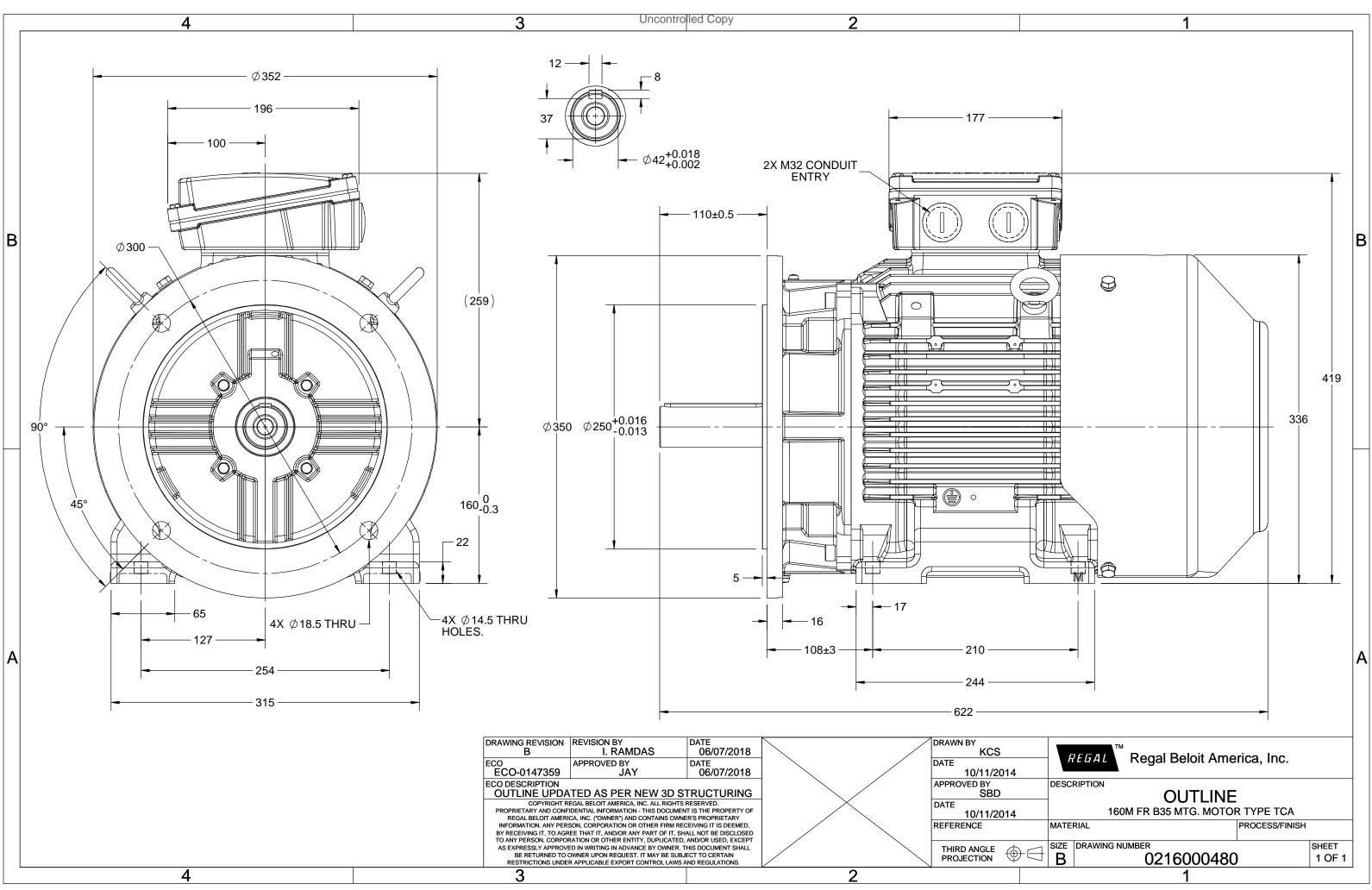
Nameplate Specifications

Output HP	5.50 Hp	Output KW	4.0 kW
Frequency	50 Hz	Voltage	400 V
Current	9.6 A	Speed	730 rpm
Service Factor	1	Phase	3
Efficiency	87.1 %	Power Factor	0.69
Duty	S1	Insulation Class	F
Frame	160M	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	160M 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 6309	Ambient Temperature Opp Drive End Bearing Size	40 °C 6209

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	8	Rotation	Bi-Directional
Mounting	B35	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	622 mm	Frame Length	254 mm
Shaft Diameter	42 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0216000480

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



3 of 7







Model No. QCA0044A1131GAA001

$U = \Delta / Y = f$	Р	P I	n	Т	IE	9	6 EFF at	:load	ł	PF	at lo	bad	I_A/I_N	T_A/T_N	$T_{\rm K}/T_{\rm N}$
(V) Conn [Hz] [kW] [l	hp] [A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
400 <u>Δ</u> 50	4 5	5.5 9.6	730	53.76	IE4	-	87.1	87.1	84.8	0.69	0.61	0.47	5.3	1.8	2.4
· · ·		0	CA										IP 55		
Motor type			FC			0		protecti	on				IM B35		
Enclosure							unting t						IC 411		
Frame Material							ling me								
Frame size			1			Motor weight - approx. Gross weight - approx.						140			k k
Duty			0%			Gross weight - approx. Motor inertia						160 0.1312			
Voltage variation *			5%			Load inertia						Customer to Provide			kgm
Frequency variation * Combined variation *			9% 1%				Vibration level					Cust	2.2	le	
Design			1			Noise level (1meter distance from					`	59		mm/ dB(A	
Service factor			.0					•	cold/Equally spread)	2/3/4		UB(A
Insulation class			:				ting me		ola/Equ	any spre	240		DOL		
			o +40		°C		•					DUL			
Ambient temperature	(80 [C			K		e of cou		(hot/co	الم ا			15/30		
Temperature rise (by resi Altitude above sea level	istance)	-	00					f rotatio	• •	ia)		D	li-directional		:
	tion		A		meter		dard ro		on				ckwise form DI	-	
Hazardous area classifica Zone classificatio			A				idard ro it shade					CIU	RAL 5014	_	
	n		A				essories						KAL JU14		
Gas group Temperature clas	<i>c</i>		A			ALL		essory -	1				PTC 150°C		
Rotor type	5		n Die cast					essory -					-		
Bearing type								,							
DE / NDE bearing						Torr	Accessory - 3 Terminal box position					- TOP			
Lubrication method		Greased							ze/cond	uit cizo	1 R	x 3C v 3	35mm²/2 X M3	2 x 1 5	
Type of grease			A					rminal I	•	art size	11		NA	- ~ 1.5	
i the of Ricase						Aux	mary te	linnidi i	507						
/I Lockod Potor Curre	mt / Dat	ad Cumant				T /T	- D		Taraua	/ Pator	Tanaura				

 I_{A}/I_{N} - Locked Rotor Current / Rated Current T_{A}/T_{N} - Locked Rotor Torque / Rated Torque

T_K/T_N - Breakdown 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 chan	ge. There may be slight v	variations between calculated	values in this datashe	et 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®



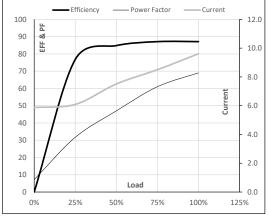
Model No. QCA0044A1131GAA001

Enclosure	U	Δ / Y	f	Р	Р	1	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	4	5.5	9.6	730	5.48	53.76	IE4	40	S1	1000	0.1312	140

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	5.9	6.1	7.5	8.5	9.6	
Torque	Nm	0.0	13.2	26.5	40.0	53.8	
Speed	r/min	750	745	741	736	730	
Efficiency	%	0.0	76.8	84.8	87.1	87.1	
Power Factor	%	7.2	31.7	47.0	61.0	69.0	
Power Factor	%	7.2	31.7	47.0	61.0	69.0	

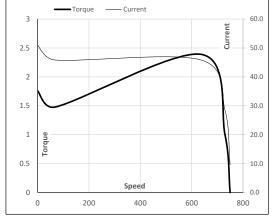
Performance vs Load Chart



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	68	637	730	750
Current	А	50.9	45.8	28.4	9.6	5.9
Torque	pu	1.8	1.5	2.4	1	0

Starting Characteristics Chart



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

Issued By Issued Date

REGAL





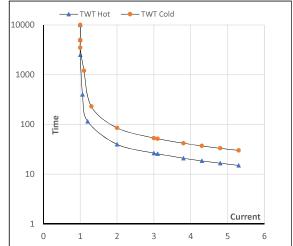
Model No. QCA0044A1131GAA001

Enclosure	U	Δ / Y	f	Ρ	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	4	5.5	9.6	730	5.48	53.76	IE4	40	S1	1000	0.1312	140

Motor Speed Torque Data

Load		FL	I_1	I ₂	I ₃	I_4	l ₅	LR
TWT Hot	s	10000	40	27	20	18	16	15
TWT Cold	s	10000	85	53	40	35	32	30
Current	pu	1	2	3	4	4.5	5	5.3

Thermal Characteristics Chart



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

Issued By Issued Date

REGAL