PRODUCT INFORMATION PACKET

Model No: TCA0043A1111GAC010 Catalog No: TCA0043A1111GAC010 TerraMAX® Cast Iron Motor, 5.50 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 132M 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: TCA0043A1111GAC010, Catalog No:TCA0043A1111GAC010 TerraMAX® Cast Iron Motor, 5.50 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 132M Frame, TEFC

marathon®

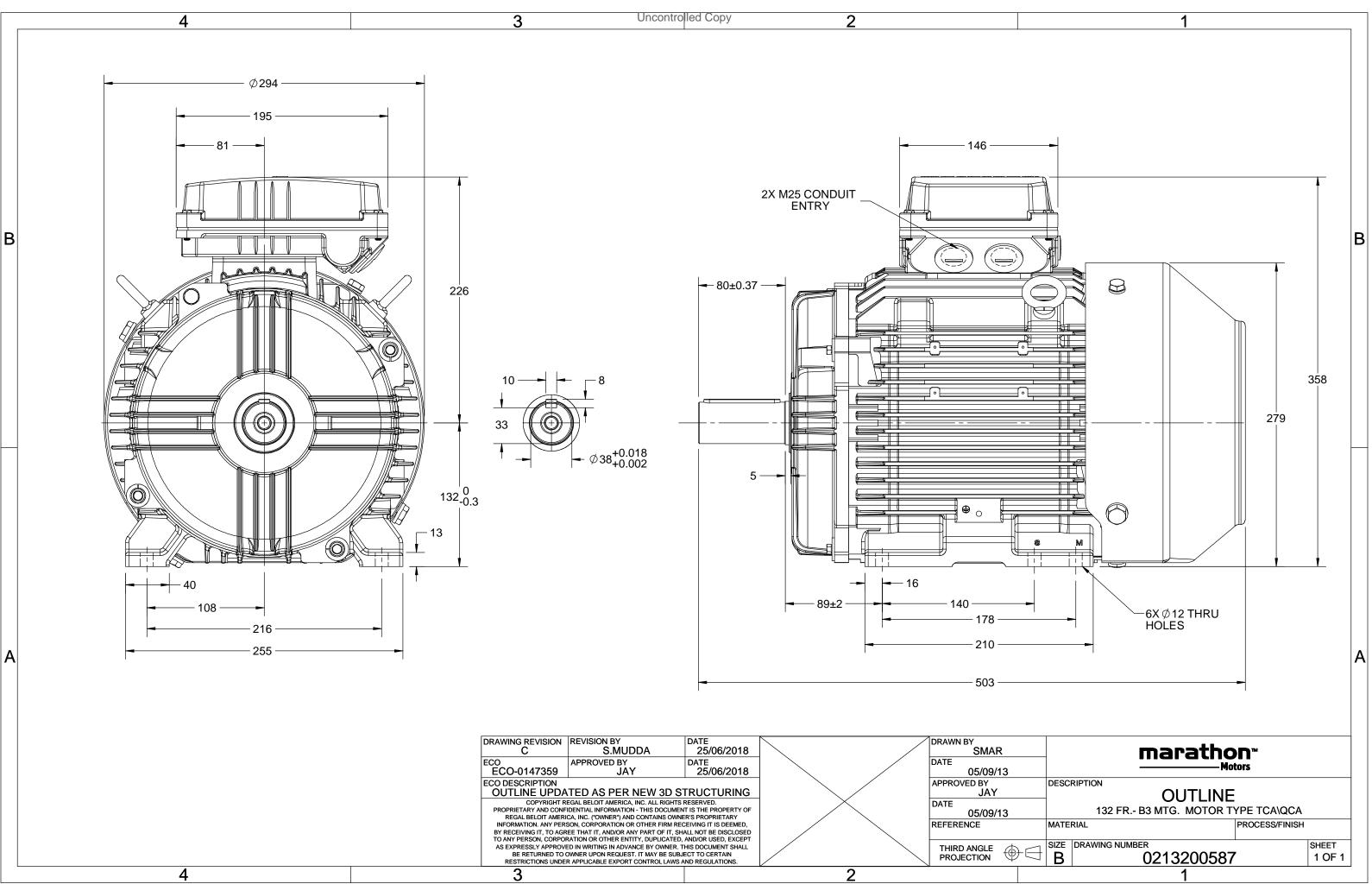
Nameplate Specifications

Output HP	5.50 Hp	Output KW	4.0 kW
Frequency	50 Hz	Voltage	400 V
Current	9.0 A	Speed	973 rpm
Service Factor	1	Phase	3
Efficiency	86.8 %	Power Factor	0.74
Duty	S1	Insulation Class	F
Frame	132M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6308	Opp Drive End Bearing Size	6208
UL	No	CSA	No
CE	Yes	IP Code	55
Efficiency Class	IE3		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	Rotation	Bi-Directional
Mounting	B3	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	503 mm	Frame Length	240 mm
Shaft Diameter	38 mm	Shaft Extension	80 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0213200587	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. TCA0043A1111GAC010

. /	onn Δ	[Hz] 50	[kW] 4	[hp]						% EFF at				at lo		I _A /I _N	T_A/T_N	T_{K}/T_{N}
400	Δ	50	4		[A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
			4	5.5	9.0	973	40.34	IE3	-	86.8	86.8	85.9	0.74	0.65	0.5	5.6	2.1	2.6
_																10.55		
Motor type					TCA					gree of I		on				IP 55		
Enclosure					TEFC					ounting						IM B3		
Frame Mat					Cast Irc					oling me						IC 411		
Frame size	5				132M					otor wei	5 1					74		kg
Duty					S1				Gross weight - approx. Motor inertia Load inertia						77		kg	
Voltage va					± 10%											0.0494		kgm ²
Frequency					± 5%										Custo	omer to Provid	e	
Combined	l variat	ion *			10%				Vibration level						1.6		mm/s	
Design					N				Noise level (1meter dis				nce fron	n motor	,			dB(A)
Service fac	ctor				1.0				No	. of star	ts hot/c	old/Equ	ally spr	ead		2/3/4		
Insulation	class				F				Sta	rting m	ethod				DOL			
Ambient te	emper	ature			-20 to +	40		°C	Тур	be of cou	upling					Direct		
Temperatu	ure rise	e (by r	esistance	e)	80 [Class	5 B]		K	LR	withsta	nd time	(hot/co	ld)			15/30		S
Altitude ab	bove se	ea lev	el		1000			meter	Dir	ection o	f rotatio	on			В	i-directional		
Hazardous	s area o	classif	ication		NA				Sta	ndard r	otation				Cloc	kwise form DE		
Zor	ne clas	sificat	tion		NA				Pai	nt shade	e					RAL 5014		
Ga	as grou	р			NA				Acc	essorie	S							
Ter	mpera	ture c	lass		NA					Acc	essory -	1				PTC 150°C		
Rotor type	5			Alu	ıminum D)ie cast				Accessory - 2					-			
Bearing typ	pe			A	nti-frictio	n ball				Acc	essory -	3				-		
DE / NDE b	bearing	g		630	18-2Z / 6	5208-2Z			Ter	minal b	ox posit	ion				TOP		
Lubricatior	n meth	nod		G	reased fo	or life			Ma	iximum	cable si	ze/cond	uit size	1R	x 3C x 1	L6mm²/2 x M2	5 x 1.5	
Type of gre	ease				NA					xiliary te						NA		

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

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

 $\rm T_A/\rm T_N$ - 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 combine variation are as per IEC60034-1

Technical data are subject to change. There may be discrepancies between calculated and name plate values. Aus/Nz Brazil Global IEC India Efficiency Europe China

Linclency	Luiope	Clilla		/ (00) / 12	Brazil	Giobal ILC
Standards	-	GB 18613-2012 Grade 2	-	-	-	IEC: 60034-30
-						

marathon®

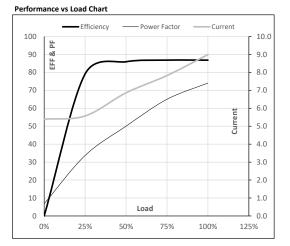


Model No. TCA0043A1111GAC010

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	4	5.5	9.0	973	4.11	40.34	IE3	40	S1	1000	0.0494	74
	400	4	50	4	5.5	5.0	575	4.11	40.34	IL3	40	51	1000	0.0454	

Motor Load Data

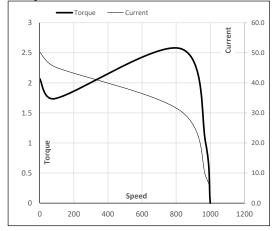
	NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
А	5.4	5.6	6.9	7.8	9.0	
Nm	0.0	9.9	19.9	30.0	40.3	
r/min	1000	994	987	980	973	
%	0.0	79.1	85.9	86.8	86.8	
%	6.8	33.7	50.0	65.0	74.0	
	Nm r/min %	A 5.4 Nm 0.0 r/min 1000 % 0.0	A 5.4 5.6 Nm 0.0 9.9 r/min 1000 994 % 0.0 79.1	A 5.4 5.6 6.9 Nm 0.0 9.9 19.9 r/min 1000 994 987 % 0.0 79.1 85.9	A 5.4 5.6 6.9 7.8 Nm 0.0 9.9 19.9 30.0 r/min 1000 994 987 980 % 0.0 79.1 85.9 86.8	A 5.4 5.6 6.9 7.8 9.0 Nm 0.0 9.9 19.9 30.0 40.3 r/min 1000 994 987 980 973 % 0.0 79.1 85.9 86.8 86.8



Motor Speed Torque Data

Motor Speed	a loique bu	u					
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	91	826	973	1000	
Current	А	50.3	45.3	30.7	9.0	5.4	
Torque	pu	2.1	1.7	2.6	1	0	

Starting Characteristics Chart



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

Issued By Issued Date

REGAL





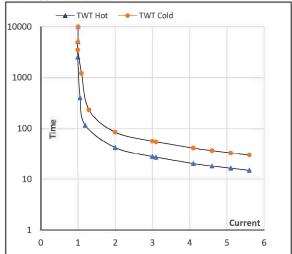
Model No. TCA0043A1111GAC010

Enclosure	U	Δ/Υ	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	4	5.5	9.0	973	4.11	40.34	IE3	40	S1	1000	0.0494	74

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I ₄	I_5	LR
TWT Hot	s	10000	42	28	21	19	17	15
TWT Cold	s	10000	84	56	42	38	34	30
Current	pu	1	2	3	4	4.5	5	5.6

Thermal Characteristics Chart



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

Issued By Issued Date

REGAL