## **PRODUCT INFORMATION PACKET**

Model No: SCA0033AG111GAA001 Catalog No: SCA0033AG111GAA001 TerraMAX® Cast Iron Motor, 4 HP, 3 Ph, 50 Hz, 220/380 V, 1000 RPM, 132S 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: SCA0033AG111GAA001, Catalog No:SCA0033AG111GAA001 TerraMAX® Cast Iron Motor, 4 HP, 3 Ph, 50 Hz, 220/380 V, 1000 RPM, 132S Frame, TEFC

# marathon®

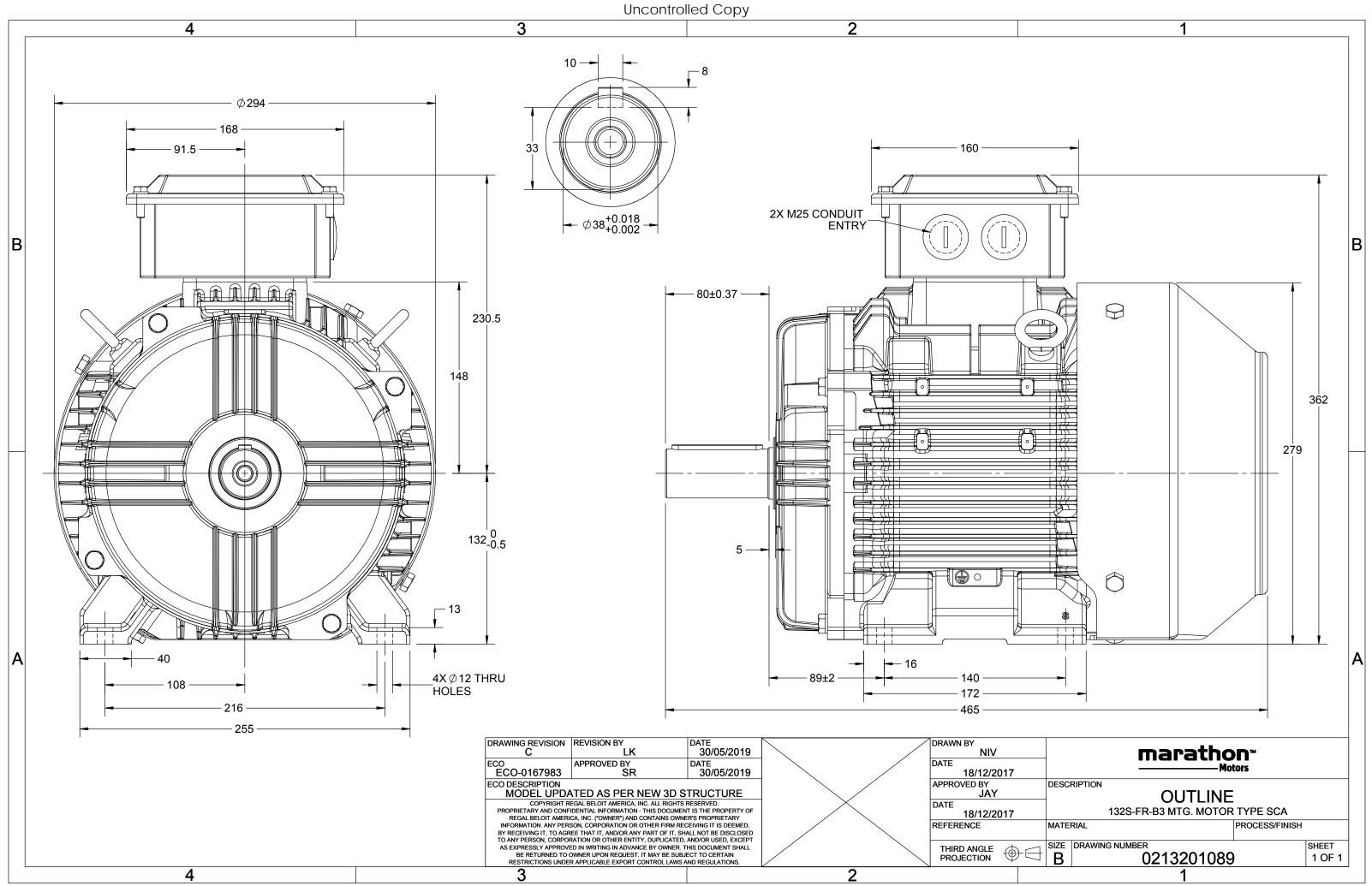
### Nameplate Specifications

Output HP	4 Hp	Output KW	3.0 kW
Frequency	50 Hz	Voltage	220/380 V
Current	7.0 A	Speed	957 rpm
Service Factor	1	Phase	3
Efficiency	83.3 %	Power Factor	0.78
Duty	S1	Insulation Class	F
Frame	132S	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
UL CE	No Yes	CSA IP Code	No 55

#### **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	465 mm	Frame Length	202 mm
Shaft Diameter	38 mm	Shaft Extension	80 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0213201089	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**<sup>®</sup>

Model No. SCA0033AG111GAA001

U	$\Lambda / Y$	f	Р	Р		n	Т	IE		% FFF a	t load	1	DE	at lo	had	I <sub>A</sub> /I <sub>N</sub>	$T_A/T_N$	T <sub>K</sub> /T <sub>N</sub>
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class		FL		1/2FL	FL		1/2FL	[pu]	[pu]	[pu]
220/380	Ŷ	50	3	4.0	7.0	957	29.83	IE2	-	83.3	83.3	83.6	0.78	0.71	0.59	6.1	2.5	2.8
220/300	•	50	5	4.0	7.0	557	25.05	162		05.5	05.5	05.0	0.70	0.71	0.55	0.1	2.5	2.0
Motor typ	e				SCA				Deg	gree of	orotecti	on				IP 55		
Enclosure					TEFC	2			Mo	unting	type					IM B3		
Frame Ma	terial				Cast Ir	on			Cod	Cooling method				IC 411				
Frame size	2				1325	5			Motor weight - approx.					70			kg	
Duty					S1				Gross weight - approx.							kg		
Voltage va	riation	*			± 10%	6			Motor inertia						0.0211		kgm <sup>2</sup>	
Frequency	variatio	on *			± 5%	D			Loa	Load inertia				Custo	omer to Provid	e		
Combined	variatio	on *			10%				Vibration level						1.6		mm/s	
Design					N				Noi	Noise level ( 1meter distance from moto					)	59		dB(A)
Service fac	ctor				1.0				No.	of star	ts hot/c	old/Equ	ally spre	ead		2/3/4		
Insulation	class				F				Sta	rting m	ethod					DOL		
Ambient t	empera	ture			-20 to +	-40		°C	Тур	e of co	upling					Direct		
Temperate	ure rise	(by res	istance)		80 [ Clas	s B ]		К	LR	withsta	nd time	(hot/col	d)			15/30		s
Altitude al	bove sea	a level			1000	)		meter	Dire	ection c	of rotatio	n			В	i-directional		
Hazardous	s area cl	assifica	tion		NA				Sta	ndard r	otation				Cloc	kwise form DE		
	Zone c	lassific	ation		NA				Pai	Paint shade						RAL 5014		
	Gas gr	oup			NA				Acc	essorie	s							
	Tempe	erature	class		NA					Acc	essory -	1				-		
Rotor type	9			Alu	ıminum l	Die cast				Aco	essory -	2				-		
Bearing ty	ре			A	nti-frictio	on ball				Acc	essory -	3				-		
DE / NDE I	bearing			630	08-2Z / 6	5208-2Z			Ter	minal b	ox posit	ion				TOP		
Lubricatio	n metho	bd		G	reased fo	or life			Ma	ximum	cable siz	e/cond	uit size	1F	x 3C x 1	L6mm²/2 x M2	5 x 1.5	
Type of gr	ease				NA				Aux	diliary te	erminal l	хох			Avail	able on Reque	st	

 $I_{A}/I_{N}$  - 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 combine variation are as per IEC60034-1

Technical dat	Technical data are subject to change. There may be discrepancies between calculated and name plate values.									
Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC				
Standards	-	GB 18613-2012 Grade 2	-	-	-	IEC: 60034-30				



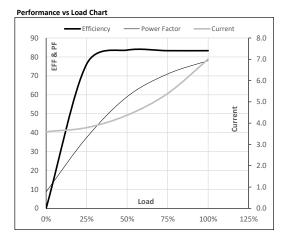
### marathon®



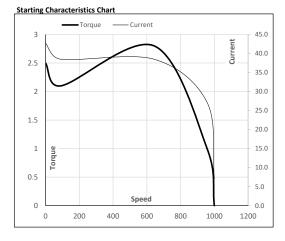
Model No. SCA0033AG111GAA001

Enclosure	U	$\Delta / Y$	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 <sup>2</sup> ]	[kg]
TEFC	220/380	Y	50	3	4.0	7.0	957	3.04	29.83	IE2	40	S1	1000	0.0211	70

Motor Load Dat	ta						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	3.6	3.8	4.4	5.4	7.0	
Torque	Nm	0.0	7.2	14.6	22.1	29.8	
Speed	r/min	1000	990	980	969	957	
Efficiency	%	0.0	76.2	83.6	83.3	83.3	
Power Factor	%	8.7	37.4	59.0	71.0	78.0	



Motor Speed Torque Data										
Load Point		LR	P-Up	BD	Rated	NL				
Speed	r/min	0	91	644	957	1000				
Current	А	42.8	38.5	27.2	7.0	3.6				
Torque	pu	2.5	2.1	2.8	1	0				



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

Issued By Issued Date

REGAL



# **TerraMAX**<sup>®</sup>

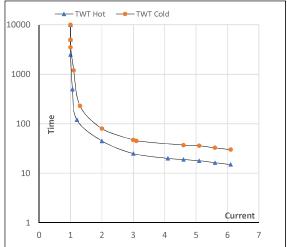
Model No. SCA0033AG111GAA001

Class	01 ass 10	[°C]	[m]	[kg-m <sup>2</sup> ]	[]
			[III]	l [kg-m]	[kg]
IE2	IE2 4	40 S1	1000	0.0211	70
		IE2	IE2 40 S1	IE2 40 S1 1000	IE2 40 S1 1000 0.0211

#### Motor Speed Torque Data

Load		FL	$I_1$	$I_2$	$I_3$	$I_4$	I <sub>5</sub>	LR
TWT Hot	s	10000	45	25	21	18	17	15
TWT Cold	s	10000	80	47	46	36	33	30
Current	pu	1	2	3	4	5	5.5	6.1

Thermal Characteristics Chart



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

Issued By Issued Date

REGAL