PRODUCT INFORMATION PACKET

Model No: SCA5P53A1131GAA001 Catalog No: SCA5P53A1131GAA001 TerraMAX® Cast Iron Motor, 7.50 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: SCA5P53A1131GAA001, Catalog No:SCA5P53A1131GAA001 TerraMAX® Cast Iron Motor, 7.50 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 132M Frame, TEFC

marathon®

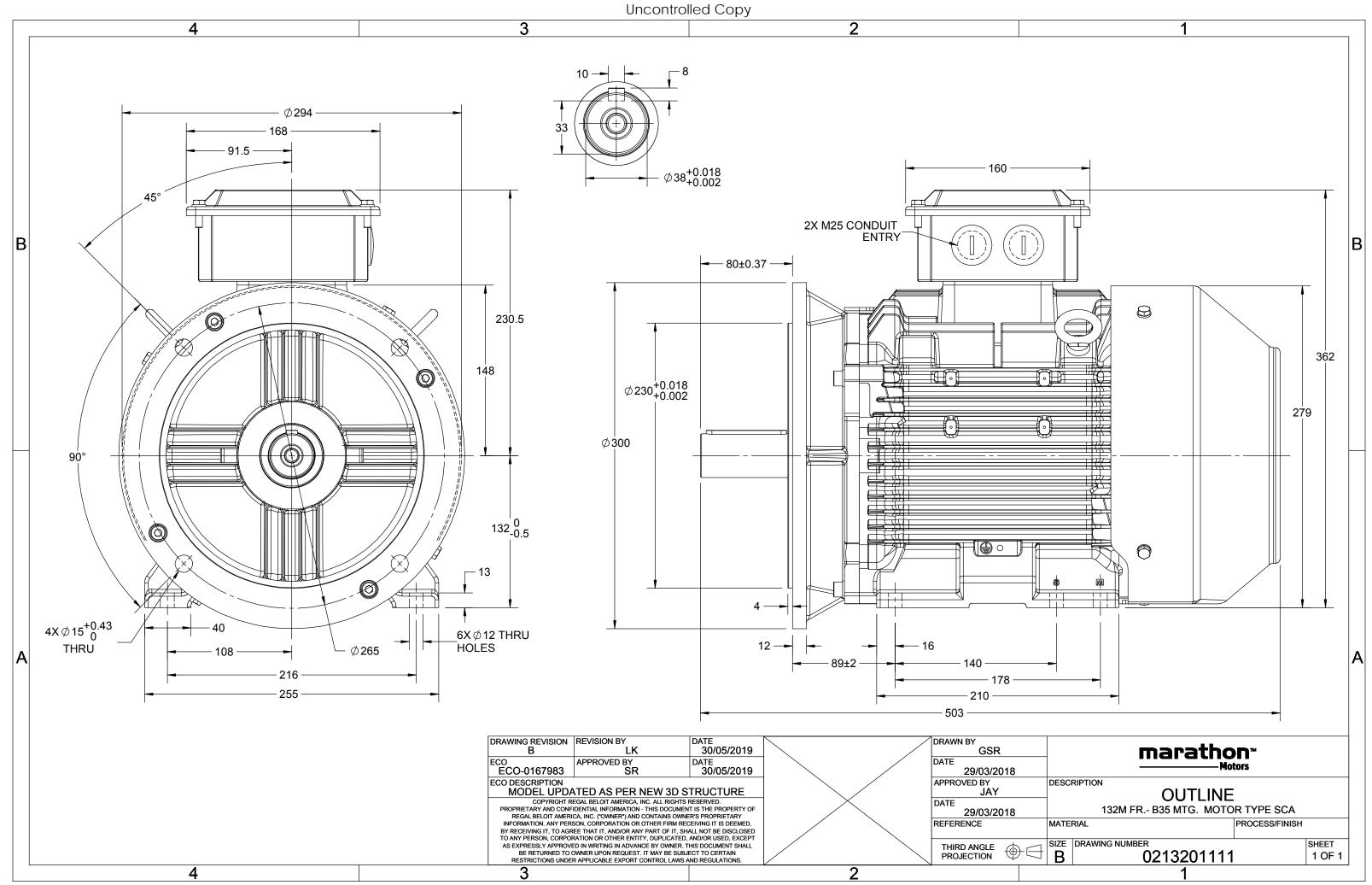
Nameplate Specifications

Output HP	7.50 Hp	Output KW	5.5 kW		
Frequency	50 Hz	Voltage	400 V		
Current	12.0 A	Speed	956 rpm		
Service Factor	1	Phase	3		
Efficiency	86 %	Power Factor	0.77		
Duty	S1 Insulat		F		
	132M Enclosure				
Frame	132M	Enclosure	Totally Enclosed Fan Cooled		
Frame Thermal Protection	132M 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 6308	Ambient Temperature Opp Drive End Bearing Size	40 °C 6208		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	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	503 mm	Frame Length	240 mm
Shaft Diameter	38 mm	Shaft Extension	80 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0213201111	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. SCA5P53A1131GAA001

U	Δ / Y	f	Р	Р	I	n	Т	IE	9	6 EFF a	tloa	ł	PF	at_lo	ad	I _A /I _N	T_A/T_N	T _K /T _N
(∨)	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	5.5	7.5	12.0	956	55.94	IE2	-	86	86	85.3	0.77	0.69	0.57	6.7	3.1	3.2
Motor	type				SCA				Deg	ree of	protecti	on				IP 55		
Enclosu					TEFC					unting								
	Material				Cast Ire	on				ling m						IC 411		
Frame					132N	1				•	ght - ap	orox.				94		kg
Duty	5.20				S1						ght - app					97		kg
,	oltage variation *				± 10%	6				tor ine						0.0332		kgm ²
	ncy varia				± 5%				Loa	d inert	ia				Custo	omer to Prov	ide	0
	ned varia				10%				Vibr	Vibration level					1.6		mm/s	
Design					Ν				Noise level (1meter distance from mot				n motor)	59		dB(A)	
Service	factor				1.0			No. of starts hot/cold/Equally spread				ead			. ,			
Insulat	ion class				F				Star	ting m	ethod							
Ambier	nt tempe	erature			-20 to +	40		°C	Тур	e of co	upling							
Tempe	rature ri	se (by r	esistanc	e)	80 [Clas	s B]		К	LR v	vithsta	nd time	(hot/co	ld)			30/15		s
Altitud	e above	sea lev	el		1000			meter	Dire	ection o	of rotatio	on			В	i-directional		
Hazard	ous area	l classif	ication		NA				Star	ndard r	otation				Cloc	ckwise form D	DE	
	Zone cla	assifica	tion		NA				Pair	nt shad	e					RAL 5014		
	Gas gro	up			NA				Acc	Accessories								
	Temper	ature o	lass		NA					Ac	cessory	- 1				PTC 150°C		
Rotor t	ype			Al	uminum [Die cast				Ac	cessory	- 2			-			
Bearing	g type			A	Anti-frictic	n ball				Ac	cessory	- 3			-			
DE / NI	DE bearin	וg		63	08-2Z / 6	5208-2Z			Terr	ninal b	ox posit	ion				TOP		
Lubrica	tion me	thod		C	Greased fo	or life			Max	kimum	cable si	ze/cond	uit size	1R	1R x 3C x 16mm²/2 x M25 x 1.5			
Type of	fgrease				NA				Aux	iliary to	erminal	box			Avail	able on Requ	est	

 I_A/I_N - Locked Rotor Current / Rated Current T_A/T_N - Locked Rotor Torque / Rated Torque

 $T_{\rm K}/T_{\rm N}$ - 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 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	IEC: 60034-30	-	-	AS/NZ 1359:5:2004	-	IEC: 60034-30

REGAL

marathon®

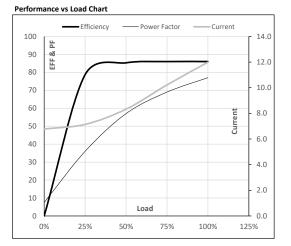


Model No. SCA5P53A1131GAA001

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	5.5	7.5	12.0	956	5.70	55.94	IE2	40	S1	1000	0.0332	94
											-				

Motor Load Data

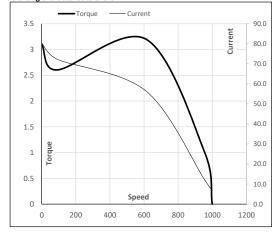
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	6.8	7.1	8.3	10.2	12.0	
Torque	Nm	0.0	13.5	27.3	41.4	55.9	
Speed	r/min	1000	990	980	969	956	
Efficiency	%	0.0	78.7	85.3	86.0	86.0	
Power Factor	%	7.5	36.0	57.0	69.0	77.0	
	,-						



Motor Speed Torque Data

motor speed	r rorque bu	u					
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	91	612	956	1000	
Current	А	80.3	72.3	56.4	12.0	6.8	
Torque	pu	3.1	2.6	3.2	1	0	

Starting Characteristics Chart



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

Issued By Issued Date

REGAL





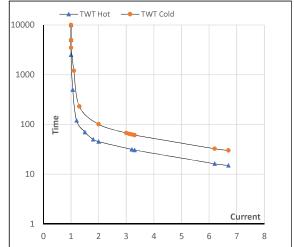
Model No. SCA5P53A1131GAA001

(V) Conn									Amb	Duty	Elevation	Inertia	Weight
(v) conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC 400 Y	50	5.5	7.5	12.0	956	5.70	55.94	IE2	40	S1	1000	0.0332	94

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	45	36	30	25	20	15
TWT Cold	s	10000	65	60	50	45	40	30
Current	pu	1	2	3	4	5	5.5	6.7

Thermal Characteristics Chart



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

Issued By Issued Date

REGAL