PRODUCT INFORMATION PACKET

Model No: SCA18P1A1111GAA001 Catalog No: SCA18P1A1111GAA001 TerraMAX® Cast Iron Motor, 25 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 160L Frame, TEFC



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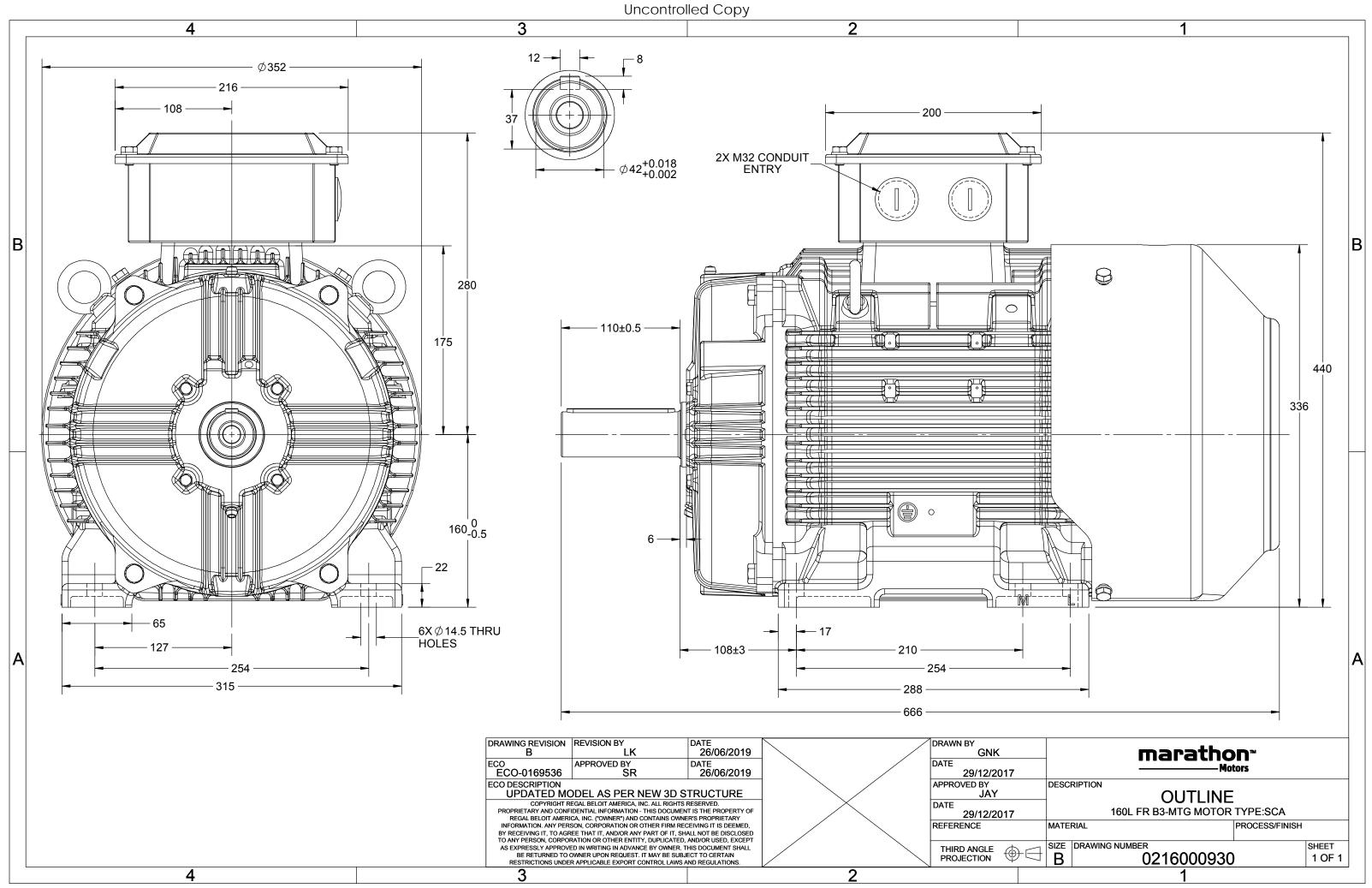
Nameplate Specifications

Output HP	25 Нр	Output KW	18.5 kW
Frequency	50 Hz	Voltage	400 V
Current	32.6 A	Speed	2940 rpm
Service Factor	1	Phase	3
Efficiency	90.9 %	Power Factor	0.9
Duty	S1	Insulation Class	F
Frame	160L	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	160L 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	2	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	666 mm	Frame Length	298 mm	
Shaft Diameter	42 mm	Shaft Extension	110 mm	
Assembly/Box Mounting	Тор			
Outline Drawing	0216000930	Connection Drawing	8442000085	

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Model No. SCA18P1A1111GAA001

	. /						-									. /	T /T	T /T		
U	Δ/Υ	f	Р	P	1	n	T	IE			t_loa			at lo		I _A /I _N	T_A/T_N	T_{κ}/T_{N}		
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL		1/2FL	FL		1/2FL	[pu]	[pu]	[pu]		
400	Δ	50	18.5	25	32.6	2940	60.10	IE2	-	90.9	90.9	89.8	0.9	0.9	0.86	7.5	2.9	3.1		
Motor	type				SCA				Deg	ree of p	protecti	on				IP 55				
Enclos	ure			TEFC Mounting type								IM B3								
Frame	Materia	I			Cast Irc	on			Соо	Cooling method						IC 411				
Frame	size				160L				Mot	Motor weight - approx.						147				
Duty					S1				Gro	Gross weight - approx.						167				
Voltag	e variatio	on *			± 10%	ģ			Mot	Motor inertia						0.0650		kgm ²		
Freque	ency varia	ation *			± 5%				Loa	Load inertia					Custo	omer to Prov	vide			
Combi	ned varia	ation *			10%				Vibr	Vibration level						2.2		mm/s		
Design					Ν				Nois	se level	(1met	er distar	nce fron	n motor) 74			dB(A)		
Service	e factor				1.0				No.	of start	ts hot/c	old/Equ	ally spr	ead	2/3/4					
Insulat	ion class	;			F				Star	ting me	ethod					DOL				
Ambie	nt tempe	erature			-20 to +	40		°C	Тур	e of cou	upling					Direct				
Tempe	rature ri	ise (by r	resistanc	e)	80 [Class	5 B]		К	LR v	vithstar	nd time	(hot/co	ld)			10/6		s		
Altitud	e above	sea lev	el		1000			meter	Dire	ection o	f rotatio	on			В	i-directional				
Hazaro	lous area	a classif	ication		NA				Star	ndard ro	otation				Cloc	kwise form	DE			
	Zone cla	assifica	tion		NA				Pair	nt shade	5					RAL 5014				
	Gas gro	oup			NA				Acc	essories	S									
	Temper	rature o	lass		NA					Accessory - 1						PTC 150°C				
Rotor	уре			Al	uminum D	ie cast				Acc	essory	- 2			-					
Bearin	g type			A	Anti-frictio	n ball				Accessory - 3					-					
DE / N	DE beari	ng		63	09-2Z / 6	209-2Z			Terr	minal be	ox posit	ion			TOP					
Lubrica	ation me	thod		(Greased fo	or life			Max	kimum (cable si	ze/cond	uit size	1R	x 3C x 35mm²/2 X M32 x 1.5					

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

 T_A/T_N - Locked Rotor Torque / Rated Torque

 T_{K}/T_{N} - Breakdown Torque / Rated Torque

Auxiliary terminal box

NOTE

Type of grease

All performance values at rated voltage and frequency.

All performance parameters are subjected to standard tolerance as per IEC 60034-1

NA

* 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	IEC: 60034-30	-	-	AS/NZ 1359:5:2004	-	IEC: 60034-30					

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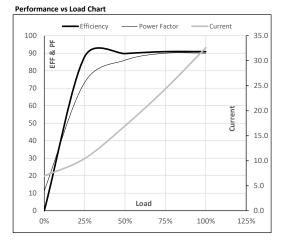
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Model No. SCA18P1A1111GAA001

Enclosure	U	Δ / Y	f	Р	Р	Ι	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	18.5	25	32.6	2940	6.13	60.10	IE2	40	S1	1000	0.065	147

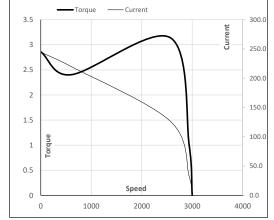
Motor Load Dat	ta						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	7.0	10.4	17.0	24.4	32.6	
Torque	Nm	0.0	14.9	30.0	45.3	60.1	
Speed	r/min	3000	2984	2967	2950	2940	
Efficiency	%	0.0	88.0	89.8	90.9	90.9	
Power Factor	%	11.4	73.3	86.0	90.0	90.0	



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	600	2566	2940	3000
Current	А	244.5	220.1	126.7	32.6	7.0
Torque	pu	2.9	2.4	3.1	1	0

Starting Characteristics Chart



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

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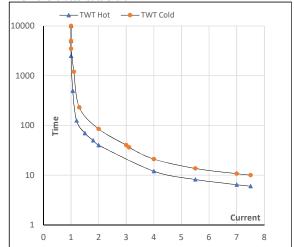
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	18.5	25	32.6	2940	6.13	60.10	IE2	40	S1	1000	0.0650	147

Motor Speed Torque Data

Load		FL	I_1	l ₂	I_3	I_4	I ₅	LR
TWT Hot	S	10000	40	30	12	10	8	6
TWT Cold	S	10000	85	40	21	16	14	10
Current	pu	1	2	3	4	5	5.5	7.5

Thermal Characteristics Chart



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

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