PRODUCT INFORMATION PACKET

Model No: SCA0371A1131GAA001 Catalog No: SCA0371A1131GAA001 TerraMAX® Cast Iron Motor, 50 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 200L Frame, TEFC



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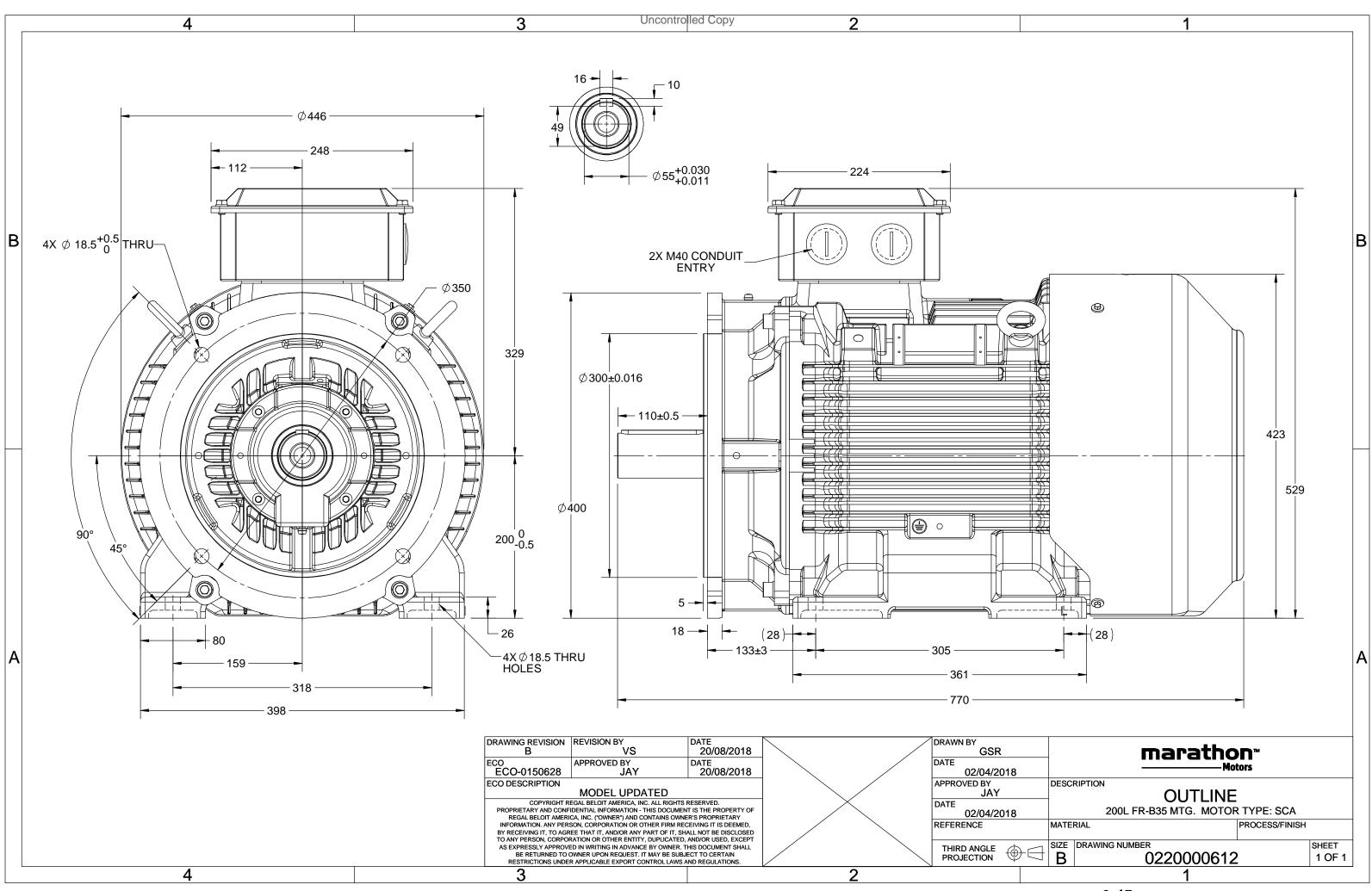
Nameplate Specifications

Output HP	50 Hp	Output KW	37.0 kW		
Frequency	50 Hz	Voltage	400 V		
Current	64.2 A	Speed	2953 rpm		
Service Factor	1	Phase	3		
Efficiency	92.5 %	Power Factor	0.9		
Duty	S1	Insulation Class	F		
Frame	200L	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Ambient Temperature	40 °C		
			6212		
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6212		
UL	6312 No	Opp Drive End Bearing Size CSA	6212 No		
<u>-</u>					

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	Rotation	Bi-Directional
Mounting	B35	Motor Orientation	Horizontal
Drive End Bearing	C3	Opp Drive End Bearing	СЗ
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	770 mm	Frame Length	370 mm
Shaft Diameter	55 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0220000612

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U	Δ / Y	f	Р	Р	I	n	Т	IE	ç	% EFF at	t load	b	PF	at lo	bad	I _A /I _N	T_A/T_N	T_{K}/T_{N}			
(V)	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	37	50	64.2	2953	120.57	IE2	-	92.5	92.5	92.2	0.9	0.88	0.81	6.5	2.0	3.1			
Motor	type				SCA				Deg	ree of p	orotecti	on				IP 55					
Enclos	ure				TEFC				Мо	unting t	type					IM B35					
Frame	Materia	I			Cast Iro	on			Cooling method						IC 411						
Frame	size				200L				Motor weight - approx.					284		kg					
Duty					S1				Gross weight - approx.					314		kg					
Voltag	e variatio	on *			± 10%	, 5			Mo	tor iner	tia					0.1867		kgm ²			
Freque	ncy varia	ation *			± 5%				Loa	d inerti	а				Cust	omer to Provi	de				
Combi	ned varia	ation *			10%				Vib	ration le	evel					2.2		mm/s			
Design					Ν				Noi	se level	(1mete	er distar	nce fron	n motor)	77		dB(A)			
Service	factor				1.0				No.	of star	ts hot/c	old/Equ	ally spr	ead		2/3/4					
Insulat	ion class	lass F Sta					F			Starting method				Starting method DOL							
Ambie	nt tempe	erature	re -20 to +40 °C Type of coupling					Direct													
Tempe	rature ri	se (by r	resistanc	e)	80 [Class	5 B]		К	LR v	vithstar	nd time	(hot/co	ld)			25/12		S			
Altitud	e above	sea lev	el		1000			meter	Dire	ection o	f rotatio	on			В	i-directional					
Hazard	lous area	a classif	ication		NA				Star	ndard ro	otation				Cloc	kwise form D	DE				

Altitude above sea level	1000	meter	Direction of rotation	Bi-directional
Hazardous area classification	NA		Standard rotation	Clockwise form DE
Zone classification	ification NA		Paint shade	RAL 5014
Gas group	Gas group NA		Accessories	
Temperature class	Temperature class NA		Accessory - 1	PTC 150°C
Rotor type	Aluminum Die cast		Accessory - 2	-
Bearing type	Anti-friction ball	Anti-friction ball		-
DE / NDE bearing	6312 C3 / 6212 C3		Terminal box position	ТОР
Lubrication method	brication method Regreasable		Maximum cable size/conduit size	1R x 3C x 50mm²/2 x M40 x 1.5
Type of grease	CHEVRON SRI-2 or Equivalent		Auxiliary terminal box	Available on Request

 I_A/I_N - Locked Rotor Current / Rated Current

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

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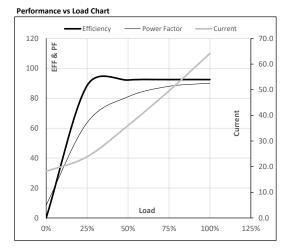
Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	37	50	64.2	2953	12.29	120.57	IE2	40	S1	1000	0.1867	284

Motor Load Data

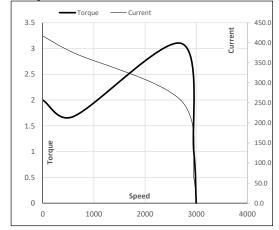
Motor Speed Torque Data

Load Point

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	18.1	23.9	36.1	49.6	64.2	
Torque	Nm	0.0	29.8	59.8	90.0	120.6	
Speed	r/min	3000	2989	2978	2966	2953	
Efficiency	%	0.0	88.5	92.2	92.5	92.5	
Power Factor	%	8.6	63.7	81.0	88.0	90.0	
rowerractor	70	0.0	03.7	01.0	00.0	50.0	



Starting Characteristics Chart



Speed r/min 0 600 2705 2953 3000 Current А 417.0 375.3 255.9 64.2 18.1 Torque ри 2.0 1.7 3.1 1 0

BD

Rated

NL

P-Up

LR

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

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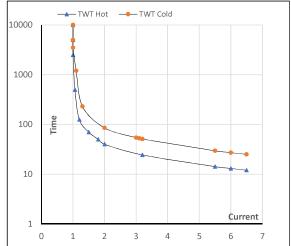
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	37	50	64.2	2953	12.29	120.57	IE2	40	S1	1000	0.1867	284

Motor Speed Torque Data

Load		FL	I_1	I ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	40	25	20	16	14	12
TWT Cold	s	10000	52	51	40	32	30	25
Current	pu	1	2	3	4	5	5.5	6.5

Thermal Characteristics Chart



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

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