PRODUCT INFORMATION PACKET

Model No: SCA0301A1131GAA001 Catalog No: SCA0301A1131GAA001 TerraMAX® Cast Iron Motor, 40 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 200L Frame, TEFC



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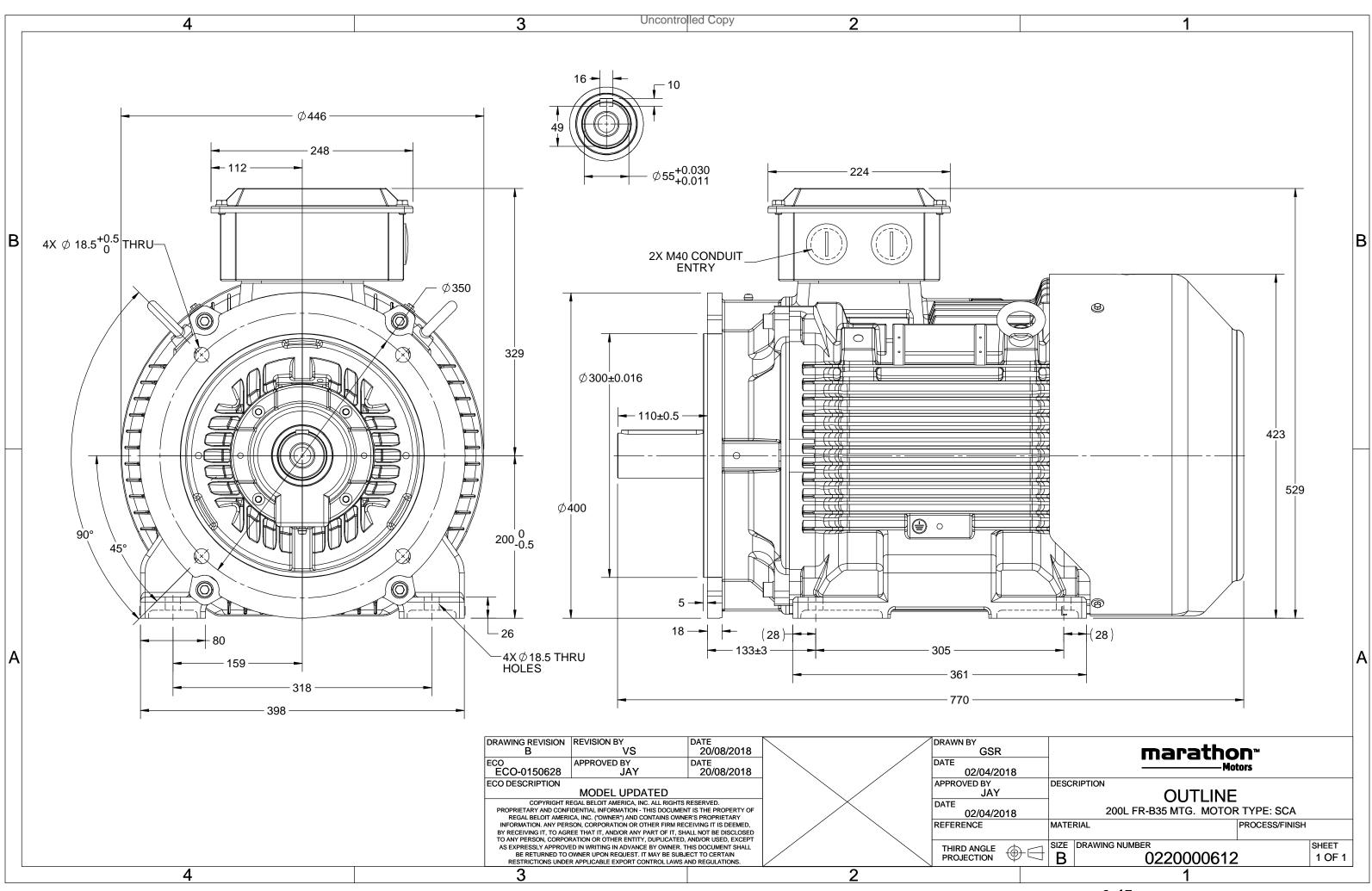
Nameplate Specifications

Output HP	40 Hp	Output KW	30.0 kW
Frequency	50 Hz	Voltage	400 V
Current	52.3 A	Speed	2953 rpm
Service Factor	1	Phase	3
Efficiency	92 %	Power Factor	0.9
Duty	S1	Insulation Class	F
Frame	200L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection		40.00
		Ambient Temperature	40 °C
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6212
		· · · ·	
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6212

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	1	n	т	IE	0,	(FEE at	t loa	4	DE	at lo	her	I _A /I _N	T_A/T_N	T _K /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	30	40	52.3	2953	96.47	IE2	5/41 L	92	92	91.5	0.9	0.88	0.81	6.3	[pu] 1.9	3.0
400	Δ	50	30	40	52.5	2933	90.47	ILZ	-	92	92	91.5	0.9	0.00	0.01	0.5	1.9	5.0
																1		
Motor	type				SCA				Deg	ree of J	orotecti	on				IP 55		
Enclos	ure				TEFC	2			Mou	Mounting type					IM B35			
Frame	Materia	I			Cast Ire	on			Coo	Cooling method					IC 411			
Frame	size				200L				Mot	Motor weight - approx.					270			kg
Duty					S1				Gros	ss weig	ht - app	rox.			300			kg
Voltag	e variatio	on *			± 10%	6			Mot	or iner	tia					0.1687		kgm ²
Freque	ency varia	ation *			± 5%			Load	d inerti	а				Custo	omer to Prov	vide		
Combi	ned varia	ation *			10%			Vibr	ation le	evel					2.2		mm/s	
Design	1				N				Nois	Noise level (1meter distance from motor))	77		dB(A)
Service	e factor				1.0				No.	of star	ts hot/c	old/Equ	ally spr	ead		2/3/4		
Insulat	ion class	5			F				Star	ting me	ethod					DOL		
Ambie	nt tempe	erature			-20 to +	-40		°C	Туре	Type of coupling					Direct			
Tempe	erature ri	ise (by r	resistand	ce)	80 [Clas	s B]		К	LR w	LR withstand time (hot/cold)					25/12			S
Altitud	le above	sea lev	el		1000)		meter	Dire	ction o	f rotatio	on			В	i-directional		
Hazaro	dous area	a classif	ication		NA				Star	dard r	otation				Cloc	ckwise form I	DE	
	Zone cla	assifica	tion		NA				Pain	t shade	e					RAL 5014		
	Gas gro	oup			NA				Acce	essorie	s							
	Temper	rature o	lass		NA					Acc	essory	- 1				PTC 150°C		
Rotor	type			Al	uminum [Die cast				Acc	essory	- 2				-		
Bearin	g type			A	Anti-frictic	on ball				Acc	essory	- 3				-		
DE / N	DE beari	ng		63	12 C3 / 6				Terr	ninal b	ox posit	ion				TOP		
Lubrica	ation me	thod			Regrease	able			Max	imum	cable si	ze/cond	uit size	1R	x 3C x 5	50mm²/2 x N	140 x 1.5	
Туре о	of grease			CHEVRO	ON SRI-2 o	or Equival	ent		Aux	iliary te	erminal	box			Avail	able on Requ	lest	

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

 T_A/T_N - Locked Rotor Torque / Rated Torque

T_K/T_N - Breakdown Torque / Rated Torque

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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Model No. SCA0301A1131GAA001

			-	'		n	1	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	30	40	52.3	2953	9.84	96.47	IE2	40	S1	1000	0.1687	270

Motor Load Data

Motor Speed Torque Data

r/min

А

ри

Load Point

Speed

Current

Torque

	NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
А	14.5	19.1	29.0	39.9	52.3	
Nm	0.0	23.8	47.8	72.0	96.5	
r/min	3000	2988	2977	2966	2953	
%	0.0	87.5	91.5	92.0	92.0	
%	9.6	64.3	81.0	88.0	90.0	
	Nm r/min %	A 14.5 Nm 0.0 r/min 3000 % 0.0	A 14.5 19.1 Nm 0.0 23.8 r/min 3000 2988 % 0.0 87.5	A 14.5 19.1 29.0 Nm 0.0 23.8 47.8 r/min 3000 2988 2977 % 0.0 87.5 91.5	A 14.5 19.1 29.0 39.9 Nm 0.0 23.8 47.8 72.0 r/min 3000 2988 2977 2966 % 0.0 87.5 91.5 92.0	A 14.5 19.1 29.0 39.9 52.3 Nm 0.0 23.8 47.8 72.0 96.5 r/min 3000 2988 2977 2966 2953 % 0.0 87.5 91.5 92.0 92.0

P-Up

600

296.5

1.6

LR

0

329.5

1.9

BD

2707

202.2

3.0

Rated

2953

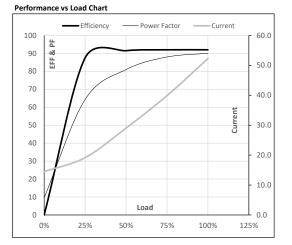
52.3

1

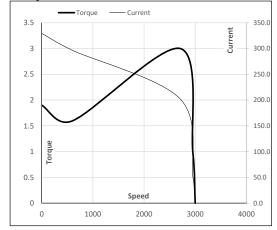
NL

3000

14.5 0



Starting Characteristics Chart



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

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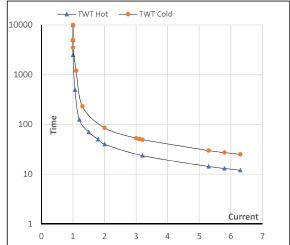
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	30	40	52.3	2953	9.84	96.47	IE2	40	S1	1000	0.1687	270

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	40	24	20	16	14	12
TWT Cold	s	10000	51	50	40	32	28	25
Current	pu	1	2	3	4	5	5.5	6.3

Thermal Characteristics Chart



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

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