PRODUCT INFORMATION PACKET

Model No: SCA0223A1131GAA001 Catalog No: SCA0223A1131GAA001 TerraMAX® Cast Iron Motor, 30 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 200L Frame, TEFC



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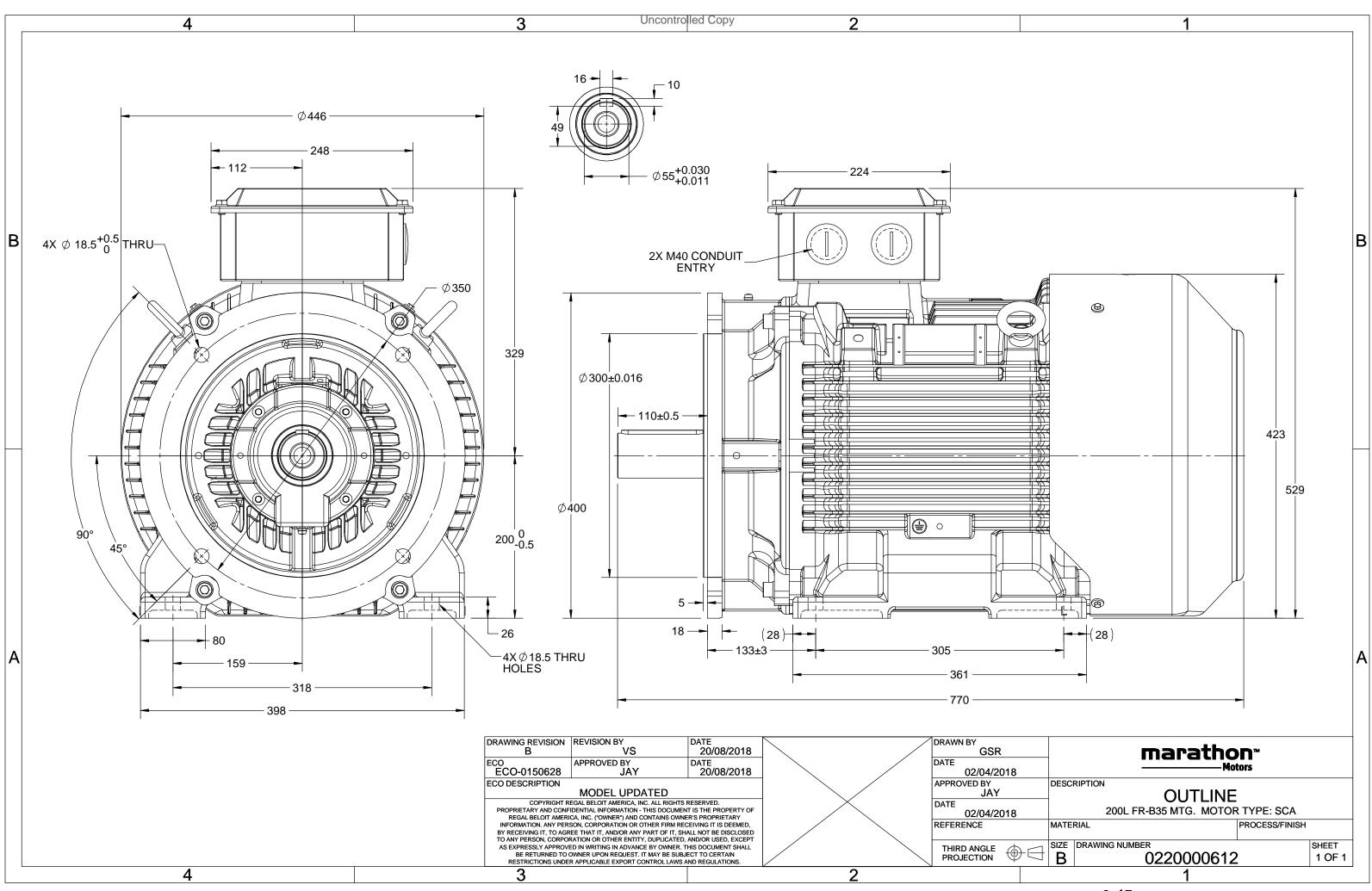
Nameplate Specifications

Output HP	30 Hp	Output KW	22.0 kW
Frequency	50 Hz	Voltage	400 V
Current	42.1 A	Speed	977 rpm
Service Factor	1	Phase	3
Efficiency	90.9 %	Power Factor	0.83
Duty	S1 Insulation Class		F
Frame	200L	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	200L 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 6312	Ambient Temperature Opp Drive End Bearing Size	40 °C 6212

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	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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TerraMAX[®]

30/15 Bi-directional

Clockwise form DE

RAL 5014

PTC 150°C

-

TOP

1R x 3C x 50mm²/2 x M40 x 1.5

Available on Request

Model No. SCA0223A1131GAA001

U	Δ / Y	f	Р	Р	I	n	Т	IE	9	6 EFF at	t_load	ł	PF	at lo	ad	I _A /I _N	T_A/T_N	$T_{\rm K}/T_{\rm N}$
(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	22	30	42.1	977	218.67	IE2	-	90.9	90.9	91.4	0.83	0.79	0.69	5.3	1.8	2.2
Motor	type	SCA Degree of protection									IP 55							
Enclos	ure				TEFC				Mounting type						IM B35			
Frame	Materia	I			Cast Iro	on			Cooling method						IC 411			
Frame	size			200L Motor weight - approx.												278		kg
Duty					S1				Gro	ss weig	ht - app	rox.				308		kg
Voltag	e variatio	on *	± 10% Motor inertia							0.3694 kgn			kgm ²					
Freque	ncy varia	ation *	n * ± 5% Load inertia							Customer to Provide								
Combi	ned varia	ation *	10% Vibration level								2.2		mm/s					
Design					Ν				Noise level (1meter distance from motor)					Noise level (1meter distance from motor)				
Service	factor				1.0				No.	of star	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		
											. 0							

К

meter

I _A /I _N - Locked Rotor Current / R	ated Current

 T_A/T_N - Locked Rotor Torque / Rated Torque

Temperature rise (by resistance)

Zone classification

Temperature class

Hazardous area classification

Altitude above sea level

Gas group

Rotor type

Bearing type

DE / NDE bearing

Type of grease

Lubrication method

 $T_{\text{K}}/T_{\text{N}}$ - Breakdown Torque / Rated Torque

LR withstand time (hot/cold)

Accessory - 1

Accessory - 2

Accessory - 3

Maximum cable size/conduit size

Terminal box position

Auxiliary terminal box

Direction of rotation

Standard rotation

Paint shade

Accessories

NOTE

All performance values at rated voltage and frequency.

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

80 [Class B]

1000

NA

NA

NA

NA

Aluminum Die cast

Anti-friction ball

6312 C3 / 6212 C3

Regreasable

CHEVRON SRI-2 or Equivalent

* 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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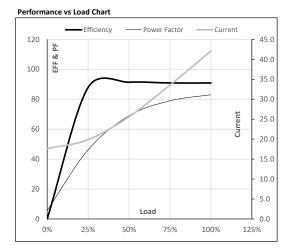


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Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	22	30	42.1	977	22.30	218.67	IE2	40	S1	1000	0.3694	278
											-				

Motor Load Data

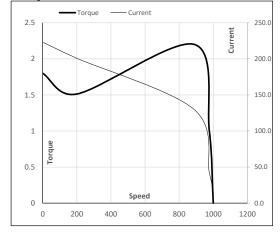
	NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
А	17.6	19.9	25.6	33.6	42.1	
Nm	0.0	53.7	108.0	162.9	218.7	
r/min	1000	995	990	984	977	
%	0.0	87.9	91.4	90.9	90.9	
%	5.6	46.2	69.0	79.0	83.0	
	Nm r/min %	Nm 0.0 r/min 1000 % 0.0	Nm 0.0 53.7 r/min 1000 995 % 0.0 87.9	Nm 0.0 53.7 108.0 r/min 1000 995 990 % 0.0 87.9 91.4	Nm 0.0 53.7 108.0 162.9 r/min 1000 995 990 984 % 0.0 87.9 91.4 90.9	Nm 0.0 53.7 108.0 162.9 218.7 r/min 1000 995 990 984 977 % 0.0 87.9 91.4 90.9 90.9



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	200	888	977	1000	
Current	А	223.1	200.8	129.8	42.1	17.6	
Torque	pu	1.8	1.5	2.2	1	0	

Starting Characteristics Chart



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

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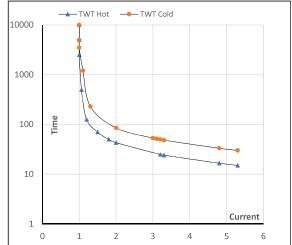
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					n			IE	Amb	Duty	Elevation	Inertia	Weight
(V) Co	onn [Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC 400	Δ 50	22	30	42.1	977	22.30	218.67	IE2	40	S1	1000	0.3694	278

Motor Speed Torque Data

Load		FL	I_1	l ₂	I ₃	I_4	I ₅	LR
TWT Hot	s	10000	43	30	22	20	16	15
TWT Cold	s	10000	51	50	45	34	32	30
Current	pu	1	2	3	4	4.5	5	5.3

Thermal Characteristics Chart



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

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