PRODUCT INFORMATION PACKET

Model No: SCA0302A1131GAA001 Catalog No: SCA0302A1131GAA001 TerraMAX® Cast Iron Motor, 40 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 200L Frame, TEFC



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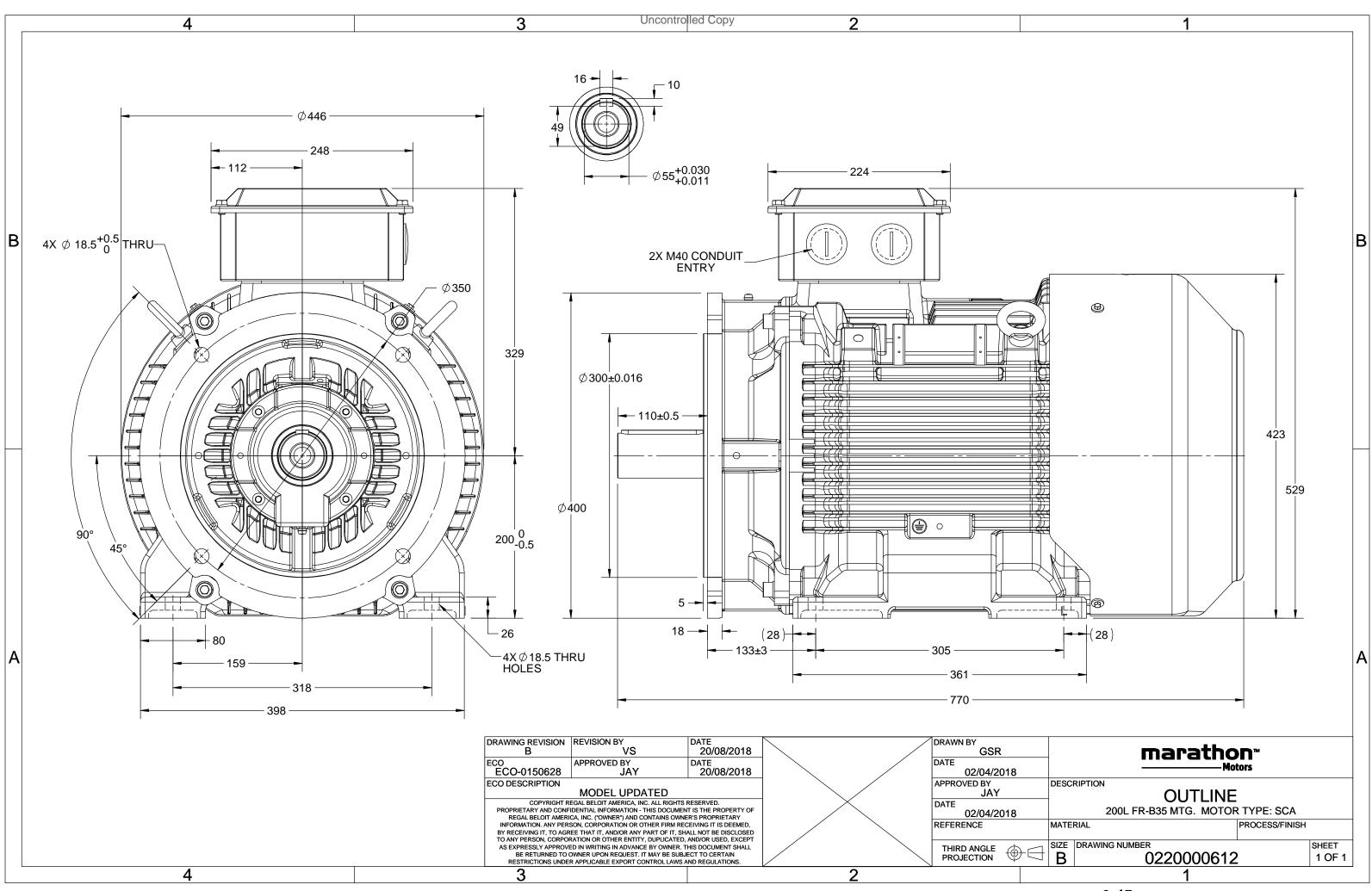
Nameplate Specifications

Output HP	40 Hp	Output KW	30.0 kW
Frequency	50 Hz	Voltage	400 V
Current	55.2 A	Speed	1471 rpm
Service Factor	1	Phase	3
Efficiency	92.3 %	Power Factor	0.85
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	4	Rotation	Bi-Directional
Mounting	B35	Motor Orientation	Horizontal
Drive End Bearing	С3	Opp Drive End Bearing	С3
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		
Outline Drawing	0220000612	Connection Drawing	8442000085

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U	Δ / Y	f	Р	Р	I	n	Т	IE	9	% EFF a	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	30	40	55.2	1471	193.61	IE2	-	92.3	92.3	93	0.85	0.82	0.72	6.2	2.2	2.8
Motor	type			SCA					Deg	Degree of protection						IP 55		
Enclosu	ure				TEFC				Mo	Mounting type						IM B35		
Frame	Material				Cast Iro	on			Coc	Cooling method					IC 411			
Frame	size				200L				Mo	Motor weight - approx.						281		kg
Duty					S1				Gro	Gross weight - approx.						311		kg
Voltage	e variatio	on *			± 10%	, b			Mo	Motor inertia						0.2616		kgm ²
Freque	ency varia	ation *			± 5%				Loa	Load inertia			Customer to Provide					
Combi	ned varia	ation *			10%				Vib	ration le	evel				2.2			mm/s

Combined variation *	10%		Vibration level	2.2	mm/s
Design	Ν		Noise level (1meter distance from mot	or) 66	dB(A)
Service factor	1.0		No. of starts hot/cold/Equally spread	2/3/4	
Insulation class	F		Starting method	DOL	
Ambient temperature	-20 to +40	°C	Type of coupling	Direct	
Temperature rise (by resistand			LR withstand time (hot/cold)	25/12	s
Altitude above sea level	1000	meter	Direction of rotation	Bi-directional	
Hazardous area classification	NA		Standard rotation	Clockwise form DE	
Zone classification	NA		Paint shade	RAL 5014	
Gas group	NA		Accessories		
Temperature class	NA		Accessory - 1	PTC 150°C	
Rotor type	Aluminum Die cast		Accessory - 2	-	
Bearing type	Anti-friction ball		Accessory - 3	-	
DE / NDE bearing	6312 C3 / 6212 C3		Terminal box position	ТОР	
Lubrication 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	

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

T_K/T_N - Breakdown Torque / Rated Torque

 $T_{\text{A}}/T_{\text{N}}$ - Locked Rotor 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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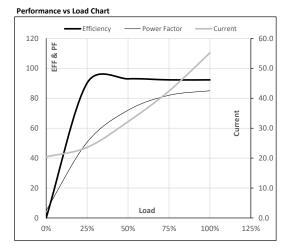


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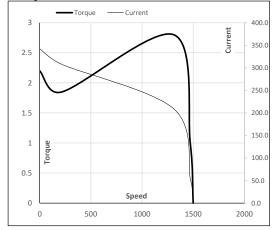
Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	30	40	55.2	1471	19.74	193.61	IE2	40	S1	1000	0.2616	281
-	400	-	50	50	40	55.2	14/1	10.74	155.01	162	40	51	1000	0.2010	20

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	20.4	23.6	32.2	42.4	55.2	
Torque	Nm	0.0	47.7	95.8	144.4	193.6	
Speed	r/min	1500	1493	1487	1480	1471	
Efficiency	%	0.0	90.2	93.0	92.3	92.3	
Power Factor	%	5.0	50.6	72.0	82.0	85.0	



Starting Characteristics Chart



Motor Speed Torque Data P-Up BD Rated NL LR Load Point Speed r/min 0 214 1311 1471 1500 Current А 342.2 308.0 209.0 55.2 20.4 Torque ри 2.2 1.8 2.8 1 0

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

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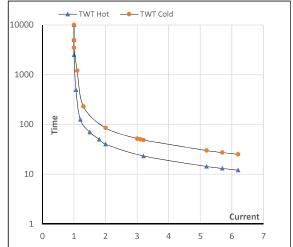
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Enclosure	U	Δ / Y	f	Р	Р	I	n	т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	30	40	55.2	1471	19.74	193.61	IE2	40	S1	1000	0.2616	281

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	13	12
TWT Cold	s	10000	50	49	40	32	28	25
Current	pu	1	2	3	4	5	5.5	6.2

Thermal Characteristics Chart



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

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