PRODUCT INFORMATION PACKET

Model No: SCA0113A1131GAA001 Catalog No: SCA0113A1131GAA001 TerraMAX® Cast Iron Motor, 15 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 160L Frame, TEFC



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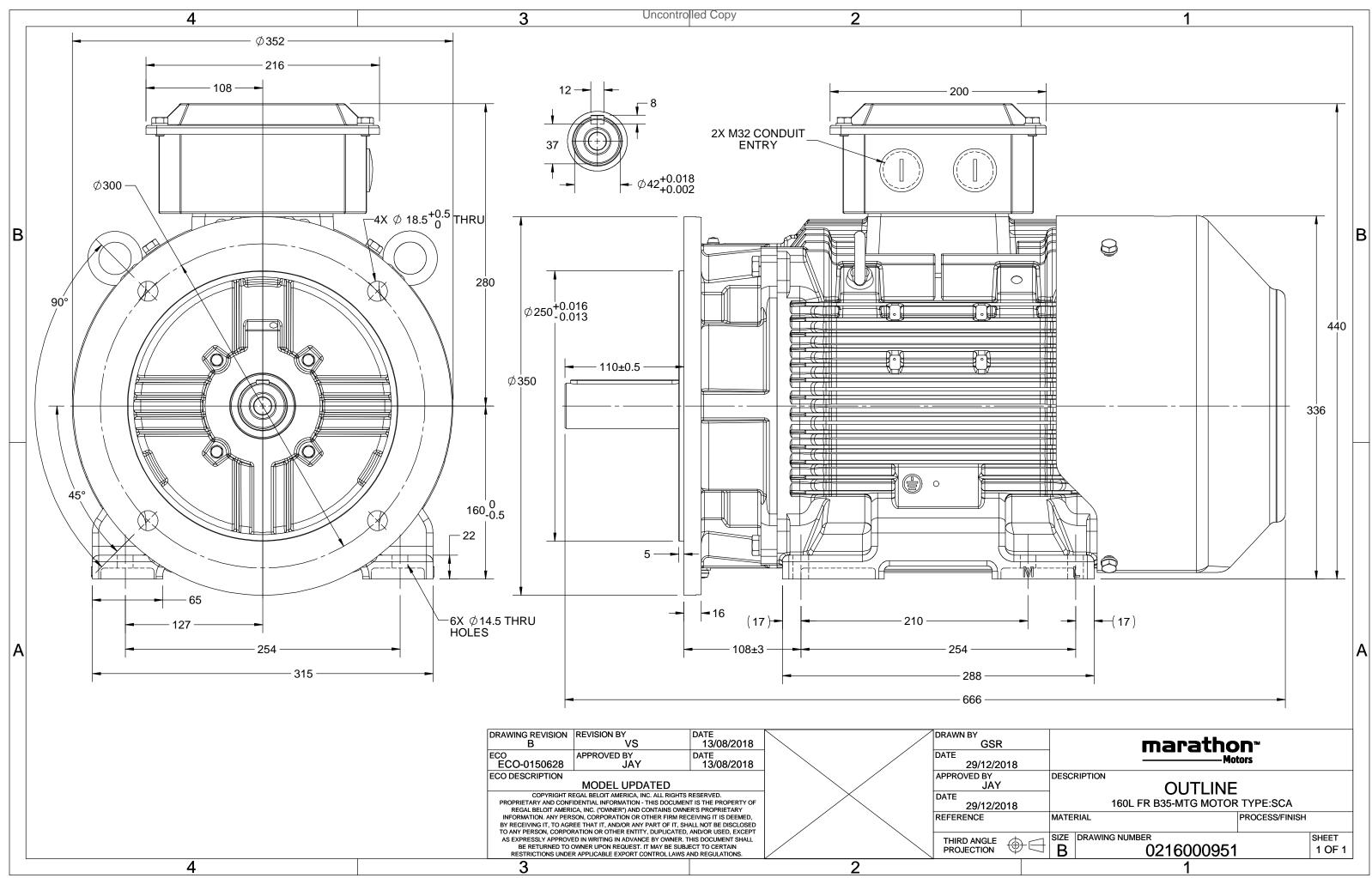
Nameplate Specifications

Output HP	15 Hp	Output KW	11.0 kW
Frequency	50 Hz	Voltage	400 V
Current	22.9 A	Speed	970 rpm
Service Factor	1	Phase	3
Efficiency	88.7 %	Power Factor	0.78
Duty	S1	Insulation Class	F
Frame	160L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6209
Brite Ena Bearing 6126		Opp Billo Ella Boalling Olzo	
UL	No	CSA CSA	No

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	Rotation	Bi-Directional
Mounting	B35	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		
Connection Drawing	8442000085	Outline Drawing	0216000951

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-																		
U	Δ / Y	f	Р	Р	I	n	Т	IE	0	% EFF a	t load	¥	PF	at lo	ad	I_A/I_N	T_A/T_N	T _K ∕T _N
(∨)	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	11	15	22.9	970	108.20	IE2	-	88.7	88.7	87.3	0.78	0.75	0.65	5.76420106	2.4	3.4
Motor t	уре				SCA				Deg	gree of	orotecti	on				IP 55		
Enclosu	re				TEFC				Мо	Mounting type						IM B35		
Frame N	Material				Cast Iron			Coc	Cooling method				IC 411					
Frame s	ize				160L				Мо	tor wei	ght - app	orox.				144		kg
Duty					S1				Gro	ss weig	ht - app	rox.				164		kg

Voltage variation *	± 10%		Motor inertia	0.1530	kgm ²
Frequency variation *	± 5%		Load inertia	Customer to Provide	
Combined variation *	10%		Vibration level	2.2	mm/s
Design	Ν		Noise level (1meter distance from moto	or) 65	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 resistance)	80 [Class B]	к	LR withstand time (hot/cold)	30/15	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	6309-2Z / 6209-2Z		Terminal box position	TOP	
Lubrication method	Greased for life		Maximum cable size/conduit size 1	R x 3C x 35mm²/2 X M32 x 1.5	
Type of grease	NA		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 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				

kgm²

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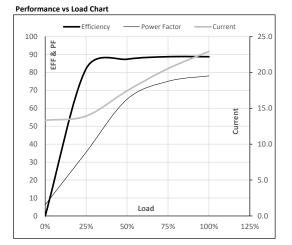


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Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	11	15	22.9	970	11.03	108.20	IE2	40	S1	1000	0.153	144

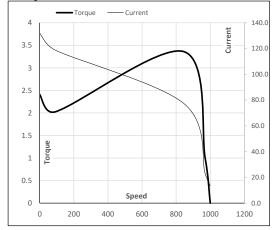
Motor Load Data

		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
rrent	А	13.3	13.9	17.4	20.5	22.9	
que	Nm	0.0	27.0	54.2	81.9	108.2	
eed	r/min	1000	994	988	981	970	
iciency	%	0.0	82.0	87.3	88.7	88.7	
wer Factor	%	6.2	35.5	65.0	75.0	78.0	



Motor Spee	Motor Speed Torque Data										
Load Point		LR	P-Up	BD	Rated	NL					
Speed	r/min	0	91	845	970	1000					
Current	А	132.0	118.8	77.4	22.9	13.3					
Torque	pu	2.4	2.0	3.4	1	0					

Starting Characteristics Chart



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

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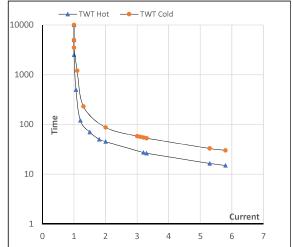
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Enclosure	U	Δ / Y	f	Р	Р	Т	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	11	15	22.9	970	11.03	108.20	IE2	40	S1	1000	0.1530	144

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	45	36	25	20	16	15
TWT Cold	s	10000	59	55	50	45	32	30
Current	pu	1	2	3	4	5	5.5	5.8

Thermal Characteristics Chart



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

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