PRODUCT INFORMATION PACKET

Model No: SCA0111A1171GAA001 Catalog No: SCA0111A1171GAA001 TerraMAX® Cast Iron Motor, 15 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 160M Frame, TEFC



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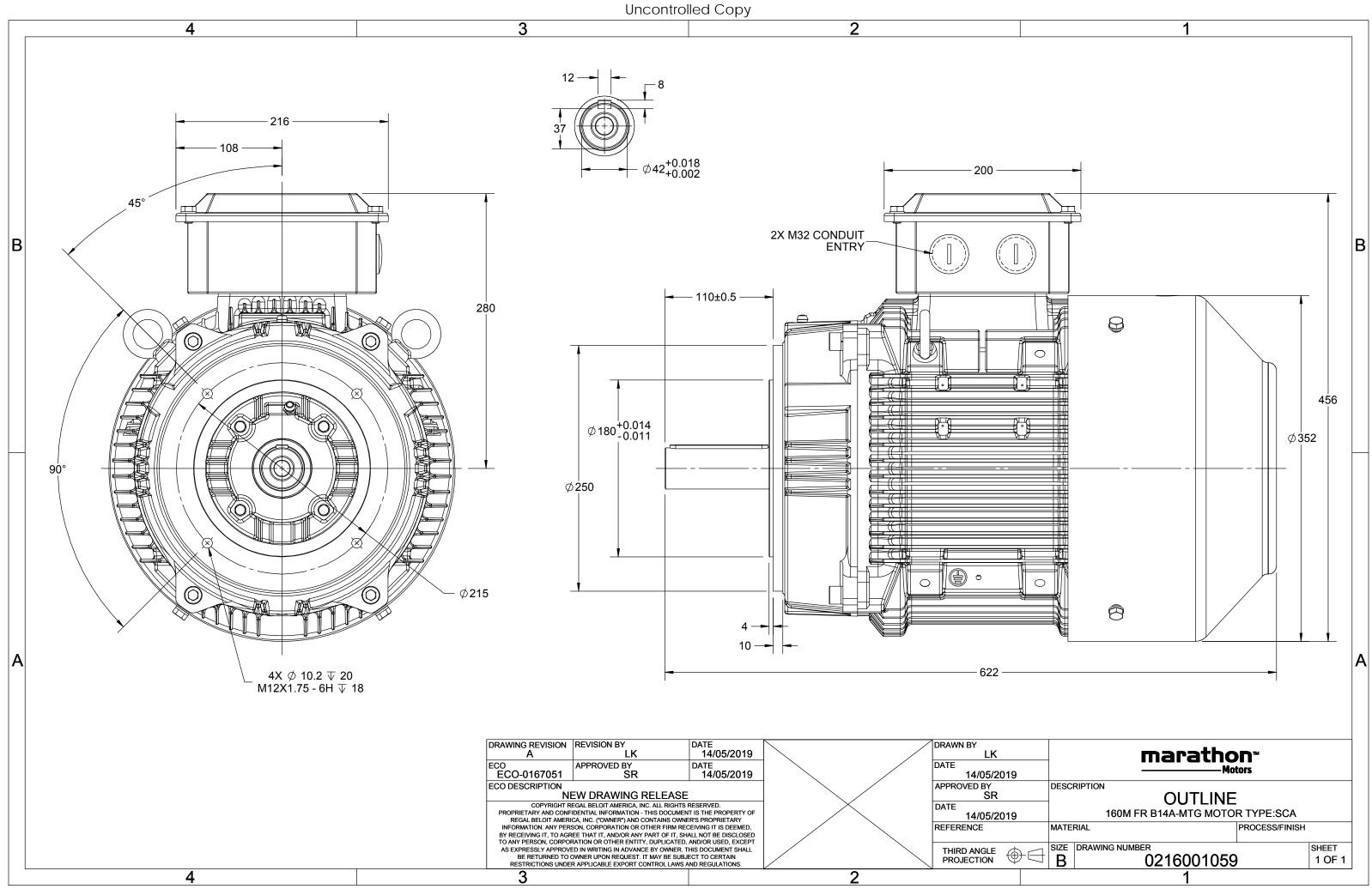
Nameplate Specifications

Output HP	15 Hp	Output KW	11.0 kW
Frequency	50 Hz	Voltage	400 V
Current	20.0 A	Speed	2940 rpm
Service Factor	1	Phase	3
Efficiency	89.4 %	Power Factor	0.89
Duty	S1	Insulation Class	F
Frame	160M	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	160M 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 6309	Ambient Temperature Opp Drive End Bearing Size	40 °C 6209

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	Rotation	Bi-Directional
Mounting	B14A	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	622 mm	Frame Length	254 mm
Shaft Diameter	42 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0216001059	Connection Drawing	8442000085

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U	Δ / Y	f	Р	Р	I	n	Т	IE		% 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	11	15	20.0	2940	35.70	IE2	-	89.4	89.4	88.2	0.89	0.89	0.85	7.46	2.4	2.9
Motor					SCA						protecti	on				IP 55		
Enclosu	ire				TEFC				Mo	Mounting type						IM B14A		
Frame	Material				Cast Irc				Coo	Cooling method						IC 411		
Frame	size				160N	l			Mo	tor wei	ght - app	orox.			117			kg
Duty					S1				Gro	oss weig	ht - app	rox.				137		kg
Voltage	e variatio	n *			± 10%	Ď			Mo	tor iner	tia				0.0430		kgm ²	
Freque	ncy varia	ation *			± 5%		Load inertia							Cust	omer to Pro	vide		
Combi	ned varia	tion *			10%		Vibration				evel					2.2		mm/s
Design					Ν		-				(1mete	er distar	nce fron	n motor)	74		dB(A)
Service	factor				1.0				No	No. of starts hot/cold/Equally spread						2/3/4		
Insulat	ion class				F				Sta	rting me	ethod					DOL		
Ambier	nt tempe	rature			-20 to +	40		°C	Тур	e of co	upling					Direct		
Tempe	rature ri	se (by r	resistanc	e)	80 [Class	5 B]		К	LR	LR withstand time (hot/cold)					10/6			S
Altitud	e above	sea lev	el		1000			meter	Dir	Direction of rotation					Bi-directional			
Hazard	ous area	classif	ication		NA				Sta	ndard r	otation				Clockwise form DE			
	Zone cla	assifica	tion		NA				Pai	nt shad	e				RAL 5014			
	Gas gro	up			NA				Acc	essorie	s							
	Temper	ature o	lass		NA					Acc	essory -	1				PTC 150°C		
Rotor t	ype			A	uminum D	Die cast				Acc	essory -	2			-			
Bearing	gtype			1	Anti-frictio	n ball				Acc	essory -	3				-		
) DE bearin	ng		63	809-2Z / 6	209-2Z			Ter	minal b	, ox posit	ion				TOP		
-	tion me	•		(Greased fo	or life					cable siz		uit size	1R	x 3C x 3	35mm²/2 X	M32 x 1.5	
Type of	fgrease				NA						erminal				Avail	able on Req	uest	

 I_{A}/I_{N} - Locked Rotor Current / Rated Current T_{A}/T_{N} - Locked Rotor Torque / Rated Torque

 $T_{\rm K}/T_{\rm N}$ - 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

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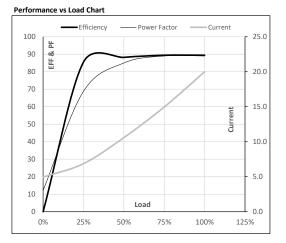
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Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	11	15	20.0	2940	3.64	35.70	IE2	40	S1	1000	0.0430	117

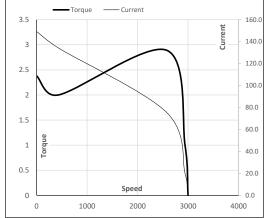
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	4.9	6.9	10.6	15.0	20.0	
Torque	Nm	0.0	8.9	18.0	27.2	35.7	
Speed	r/min	3000	2983	2967	2949	2940	
Efficiency	%	0.0	85.5	88.2	89.4	89.4	
Power Factor	%	12.2	68.8	85.0	89.0	89.0	



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	429	2576	2940	3000	
Current	А	149.2	134.3	75.5	20.0	4.9	
Torque	pu	2.4	2.0	2.9	1	0	





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

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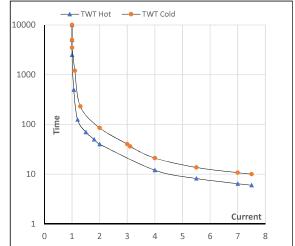
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Enclosure	U	Δ / Y	f	Р	Р	I.	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	11	15	20.0	2940	3.64	35.70	IE2	40	S1	1000	0.0430	117

Motor Speed Torque Data

Load		FL	I_1	I ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	40	30	12	10	8	6
TWT Cold	s	10000	85	40	21	16	14	10
Current	pu	1	2	3	4	5	5.5	7.5

Thermal Characteristics Chart



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

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