PRODUCT INFORMATION PACKET

Model No: SCA0304A3111GAAD01 Catalog No: SCA0304A3111GAAD01 TerraMAX® Cast Iron Motor, 40 HP, 3 Ph, 50 Hz, 415 V, 750 RPM, 250M Frame, TEFC



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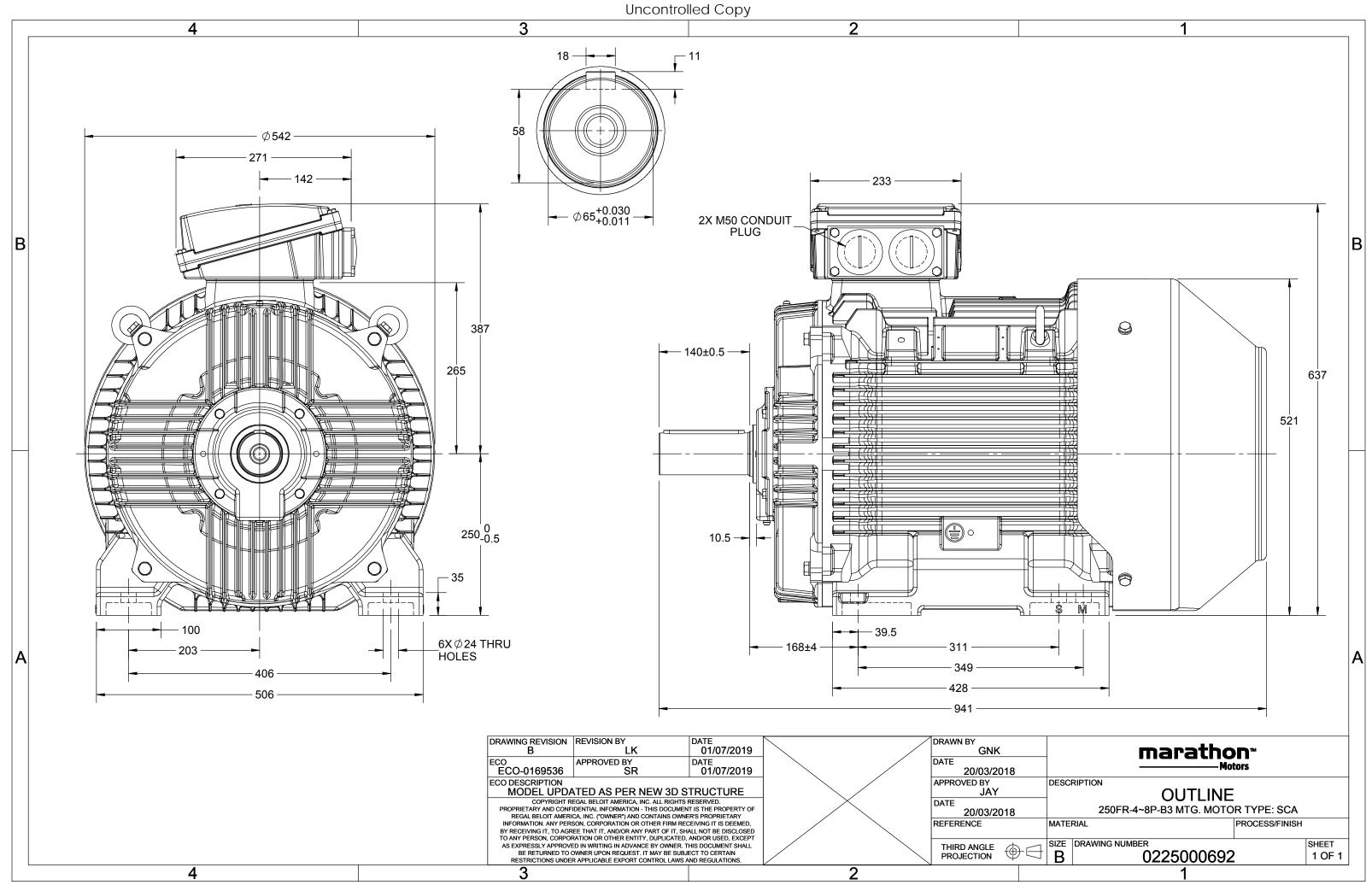
Nameplate Specifications

Output HP	40 Hp	Output KW	30.0 kW
Frequency	50 Hz	Voltage	415 V
Current	60.8 A	Speed	739 rpm
Service Factor	1	Phase	3
Efficiency	89.8 %	Power Factor	0.7646
Duty	S1	Insulation Class	F
Frame	250M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	50 °C
Thermal Protection Drive End Bearing Size	No Protection 6314	Ambient Temperature Opp Drive End Bearing Size	50 °C 6314
		·	
Drive End Bearing Size	6314	Opp Drive End Bearing Size	6314

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	8	Rotation	Bi-Directional
Mounting	B3	Motor Orientation	Horizontal
Drive End Bearing	C3	Opp Drive End Bearing	СЗ
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	941 mm	Frame Length	460 mm
Shaft Diameter	65 mm	Shaft Extension	140 mm
Assembly/Box Mounting	ТОР		
Connection Drawing	8442000085	Outline Drawing	0225000692

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U	Δ / Y	f	Р	Р	I	n	Т	IE		% EFF a	t load	ł	PF	at_lo	bad	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]
415	Δ	50	30	40	60.4	739	385.83	IE2	-	89.8	89.8	90.8	0.77	0.71	0.58	4.9	1.9	2.4
Motor	type				SCA				De	gree of	protecti	on				IP 55		
Enclosu					TEFC					ounting	•					IM B3		
Frame	Materia				Cast Ire	on				oling me						IC 411		
Frame	size				250N	1				•	ght - ap	orox.				553		kg
Duty					S1				Gro	oss weig	sht - app	rox.				588		kg
Voltage	e variatio	on *			± 10%	6			Mc	otor ine	tia					2.1617		kgm ²
Freque	ncy varia	ation *			± 5%				Loa	ad inerti	а				Cust	omer to Provi	de	
Combir	ned varia	ation *			10%				Vib	ration l	evel					2.2		mm/s
Design					Ν				No	ise leve	l (1mete	er distar	nce from	n motor)	63		dB(A)
Service	factor				1.0				No	. of star	ts hot/c	old/Equ	ally spr	ead		2/3/4		
Insulati	ion class				F				Sta	rting m	ethod					DOL		
Ambier	nt tempe	erature			-20 to +	50		°C	Тур	be of co	upling					Direct		
Tempe	rature ri	se (by i	resistanc	ce)	70 [Clas	s B]		К	LR	withsta	nd time	(hot/co	ld)			15/30		s
Altitude	e above	sea lev	el		1000			meter	Dir	ection o	of rotatio	on			Bi-directional			
Hazard	ous area	a classif	ication		NA				Sta	Standard rotation						Clockwise form DE		
	Zone cla	assifica	tion		NA				Pai	Paint shade					RAL 5014			
	Gas gro	up			NA				Acc	cessorie	s							
	Temper	ature o	lass		NA					Ac	cessory ·	- 1				-		
Rotor t	уре			Al	uminum [Die cast				Ac	cessory ·	- 2				-		
Bearing	g type				Anti-frictic					Ac	cessory ·	- 3				-		
DE / NE	DE beari	ng		63	814 C3 / 6				Ter	rminal b	ox posit	ion				TOP		
Lubrica	tion me	thod			Regrease				Ma	iximum	cable siz	ze/cond	uit size	18		95mm²/2 x M		
Type of	f grease		Sh	nell Gad	us S5 V10) or Equiv	alent		Au	xiliary te	erminal l	ох			Avail	able on Requ	est	
I _A /I _N - L	ocked R	otor Cu	irrent / F	Rated C	urrent				Т _к /	T _N - Bre	akdown	Torque	/ Rateo	d Torque	9			
T _A /T _N -	Locked	Rotor T	orque /	Rated T	orque													

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 combined variation are as per IEC60034-1

Technical data are subject to change. There may be slight variations between calculated values in this datasheet and the motor nameplate figures.											
Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC					
Standards	-	-	IS 12615 : 2018	-	-	-					

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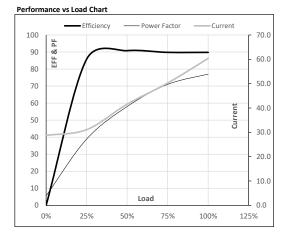
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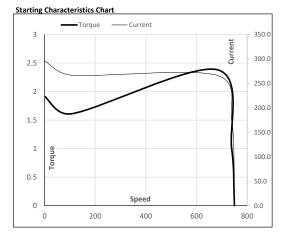
Model No. SCA0304A3111GAAD01

Enclosure	U (V)	Δ / Y Conn	f [Hz]	P [kW]	P [hp]	۱ [A]	n [RPM]	T [kgm]	T [Nm]	IE Class	Amb [°C]	Duty	Elevation [m]	Inertia [kg-m ²]	Weight [kg]
TEFC	415	Δ	50	30	40	60.4	739	39.34	385.83	IE2	50	S1	1000	2.1617	553

Motor Load Dat	a						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	28.7	31.1	41.6	50.2	60.4	
Torque	Nm	0.0	95.4	191.4	288.2	385.8	
Speed	r/min	750	747	745	742	739	
Efficiency	%	0.0	85.8	90.8	89.8	89.8	
Power Factor	%	5.6	38.9	58.0	71.0	77.0	



Motor Speed 1	Forque Data						
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	107	680	739	750	
Current	А	296.4	266.8	174.0	60.4	28.7	
Torque	pu	1.9	1.6	2.4	1	0	



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

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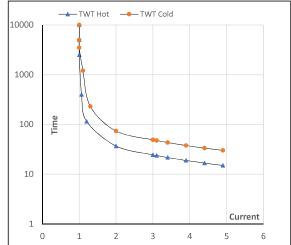
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	415	Δ	50	30	40	60.4	739	39.34	385.83	IE2	50	S1	1000	2.1617	553

Motor Speed Torque Data

Load		FL	I_1	I ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	37	25	21	18	16	15
TWT Cold	s	10000	74	49	42	36	32	30
Current	pu	1	2	3	3.5	4	4.5	4.9

Thermal Characteristics Chart



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

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