PRODUCT INFORMATION PACKET

Model No: SCA0554A3111GAAD01 Catalog No: SCA0554A3111GAAD01 TerraMAX® Cast Iron Motor, 75 HP, 3 Ph, 50 Hz, 415 V, 750 RPM, 315S Frame, TEFC



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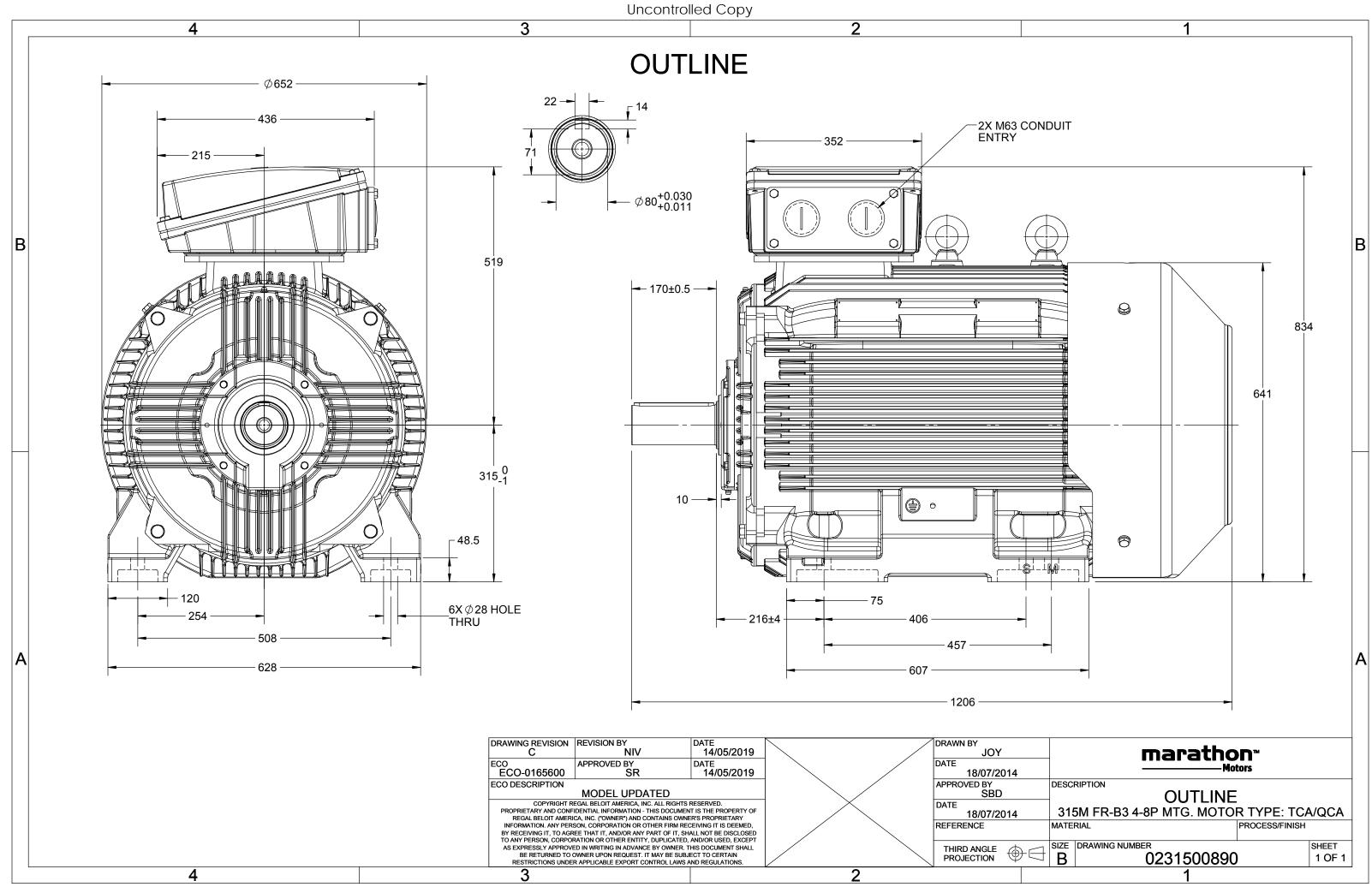
Nameplate Specifications

Output HP	75 Hp	Output KW	55.0 kW
Frequency	50 Hz	Voltage	415 V
Current	116.3 A	Speed	742 rpm
Service Factor	1	Phase	3
Efficiency	91 %	Power Factor	0.7228
Duty	S1	Insulation Class	F
Frame	315S	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	315S No Protection	Enclosure Ambient Temperature	Totally Enclosed Fan Cooled 50 °C
Thermal Protection	No Protection	Ambient Temperature	50 °C
Thermal Protection Drive End Bearing Size	No Protection 6319	Ambient Temperature Opp Drive End Bearing Size	50 °C 6319

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	1206 mm	Frame Length	729 mm	
Shaft Diameter	80 mm	Shaft Extension	170 mm	
Assembly/Box Mounting	ТОР			
Outline Drawing	0231500890	Connection Drawing	8442000085	

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U	Δ / Y	f	Р	Р	I	n	Т	IE	9	6 EFF a	it load	ł	PF	at_lo	bad	I _A /I _N	T_A/T_N	$T_{\rm K}/T_{\rm N}$
(∨)	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	55	75	118.2	742	720.01	IE2	-	91	91	91.3	0.73	0.67	0.54	4.3	1.8	2.0
					SCA				Dee							IP 55		
Motor 1					TEFC						protecti	on				IM B3		
Enclosu					Cast Irc					unting						IC 411		
	Material									ling m								
Frames	size				3155						ight - ap					854		kg
Duty					S1						ght - app	rox.				899		kg
	e variatio				± 10%					tor ine					•	3.7895		kgm ²
	ncy varia				± 5%					d inert					Cust	omer to Provi	de	
	ned varia	tion *			10%					ation l						2.8		mm/s
Design					N						l (1mete)	64		dB(A)
Service	factor				1.0						rts hot/c	old/Equ	ally spr	ead		2/3/4		
Insulati	on class				F				Star	ting m	ethod					DOL		
Ambier	nt tempe	erature			-20 to +			°C	Тур	e of co	upling					Direct		
Temper	rature ri	se (by i	resistanc	e)	70 [Class	-		K	LR v	vithsta	nd time	(hot/co	ld)			15/30		S
Altitude	e above	sea lev	el		1000			meter	Dire	ection o	of rotatio	on			B	li-directional		
Hazard	ous area	ı classif	ication		NA				Star	ndard i	otation				Cloc	ckwise form D	E	
	Zone cla	assifica	tion		NA				Pair	nt shad	le					RAL 5014		
	Gas gro	up			NA				Acc	essorie	es							
	Temper	ature o	lass		NA					Ac	cessory ·	- 1				-		
Rotor ty	уре			Al	uminum D	ie cast				Ac	cessory -	- 2				-		
Bearing	g type			ļ	Anti-frictio	n ball				Ac	cessory -	- 3				-		
DE / NC	DE bearii	ng		63	819 C3 / 6	319 C3			Ter	minal k	ox posit	ion				TOP		
Lubrica	tion me	thod			Regrease	able			Ma	kimum	cable siz	ze/cond	uit size	1R	x 3C x 2	40mm²/2 x N	63 x 1.5	
Type of	grease		Sh	ell Gad	us S5 V100) or Equiv	alent		Aux	iliary t	erminal l	box			Avail	able on Requ	est	
I _A /I _N - Le	ocked R	otor Cu	irrent / F	Rated Ci	urrent				Т _к /1	_N - Bre	akdown	Torque	/ Rated	d Torque	e			

 T_A/T_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 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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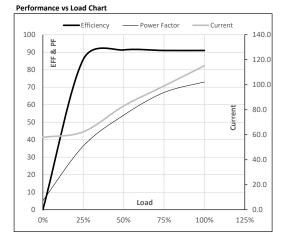
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Model No. SCA0554A3111GAAD01

Enclosure	U	Δ / Y	f	Р	Р	Ι	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	415	Δ	50	55	75	115.2	742	73.42	720.01	IE2	50	S1	1000	3.7895	854

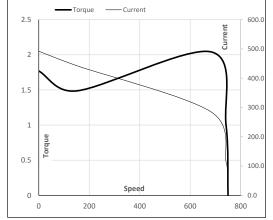
Motor Load Dat	ta						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	57.9	62.3	83.0	99.0	115.2	
Torque	Nm	0.0	178.7	358.1	538.5	720.0	
Speed	r/min	750	748	746	745	742	
Efficiency	%	0.0	85.9	91.3	91.0	91.0	
Power Factor	%	5.2	36.4	54.0	67.0	73.0	



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	150	683	742	750	
Current	А	492.1	442.9	285.2	115.2	57.9	
Torque	pu	1.8	1.5	2.0	1	0	

Starting Characteristics Chart



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

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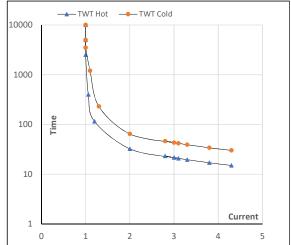
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Enclosure	U	Δ / Y	f	Р	Р	I	n	т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	415	Δ	50	55	75	115.2	742	73.42	720.01	IE2	50	S1	1000	3.7895	854

Motor Speed Torque Data

Load		FL	I_1	I ₂	I ₃	I_4	I ₅	LR
TWT Hot	S	10000	32	25	22	18	16	15
TWT Cold	s	10000	65	55	43	38	32	30
Current	pu	1	2	2.5	3	3.5	4	4.3

Thermal Characteristics Chart



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

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