PRODUCT INFORMATION PACKET

Model No: SCA1104A3111GAAD01 Catalog No: SCA1104A3111GAAD01 TerraMAX® Cast Iron Motor, 150 HP, 3 Ph, 50 Hz, 415 V, 750 RPM, 355M Frame, TEFC



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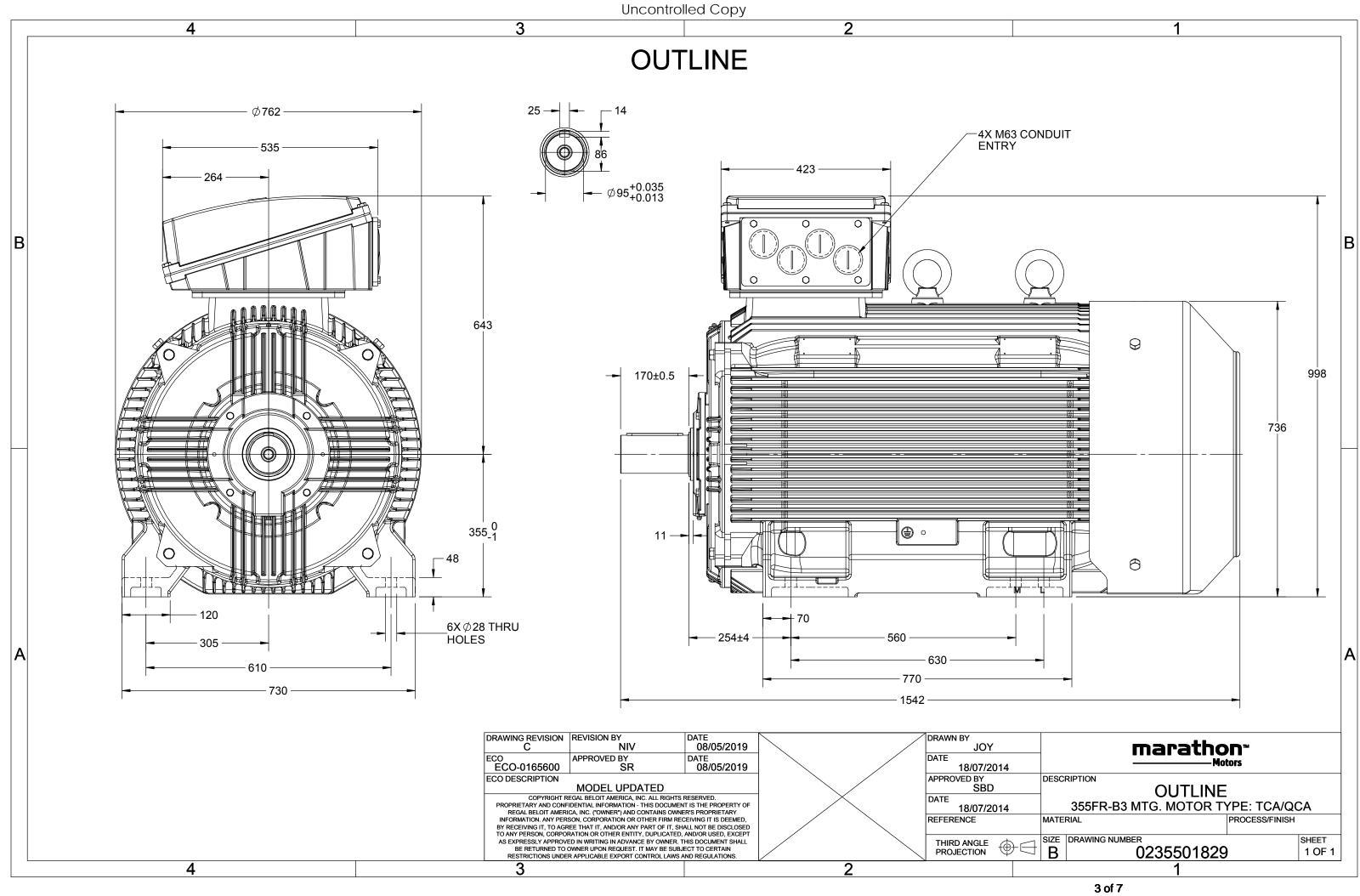
Nameplate Specifications

Output HP	150 Hp	Output KW	110.0 kW
Frequency	50 Hz	Voltage	415 V
Current	212.6 A	Speed	743 rpm
Service Factor	1	Phase	3
Efficiency	92.3 %	Power Factor	0.78
Duty	S1	Insulation Class	F
Frame	355M	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	355M 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 6322	Ambient Temperature Opp Drive End Bearing Size	50 °C 6322

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	C3	
Frame Material	Cast Iron	Shaft Type	Keyed	
Overall Length	1542 mm	Frame Length	1010 mm	
Shaft Diameter	95 mm	Shaft Extension	170 mm	
Assembly/Box Mounting	TOP			
Outline Drawing	0235501829	Connection Drawing	8442000085	

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Model No. SCA1104A3111GAAD01

U	Δ / Y	f	Р	Р	I	n	Т	IE	9	% EFF a	t load	1	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	110	150	216.2	743	1438.42	IE2	-	92.3	92.3	93.7	0.78	0.73	0.61	5.8	1.7	2.7	
Motor	type				SCA				De	gree of	protecti	on				IP 55			
Enclosu	••				TEFC					unting	•					IM B3			
Frame	Material				Cast Irc	on			Cod	oling me	ethod					IC 411			
Frame	size				355M				Мо	tor wei	ght - app	orox.				1547		kg	
Duty					S1				Gro	oss weig	ght - app	rox.				1592		kg	
Voltage	e variatio	variation * ± 10%						Мо	tor iner	tia					7.8323		kgm ²		
Freque	ncy varia	ation *			± 5%				Loa	d inerti	а				Cust	omer to Provi	de		
Combir	ned varia	tion *			10%					Vibration level						2.8			
Design				N					Noi	Noise level (1meter distance from moto						65		dB(A)	
Service	factor				1.0				No.	No. of starts hot/cold/Equally spread						2/3/4			
Insulati	on class				F				Sta	rting m	ethod					DOL			
Ambier	nt tempe	erature			-20 to +	50		°C	Тур	e of co	upling					Direct			
Tempe	rature ri	se (by i	resistanc	e)	70 [Class	6 B]		К	LR	withsta	nd time	(hot/co	ld)			15/30		s	
Altitude	e above	sea lev	el		1000			meter	Dire	ection o	of rotatio	n			B	Bi-directional			
Hazard	ous area	classif	ication		NA				Sta	ndard r	otation				Clo	ckwise form D	E		
	Zone cla	assifica	tion		NA				Pai	nt shad	e					RAL 5014			
	Gas gro	up			NA				Acc	essorie	S								
	Temper	ature o	lass		NA					Ace	cessory -	1				-			
Rotor t	уре			Al	uminum D	ie cast				Ace	cessory -	2				-			
Bearing	g type			A	Anti-frictio	n ball				Ace	cessory -	3				-			
DE / N	DE bearii	ng		63	22 C3 / 6	322 C3			Ter	Terminal box position					ТОР				
Lubrica	tion me	thod			Regrease	able			Ma	ximum	cable siz	e/cond	uit size	1R	x 3C x 3	800mm²/4 x M	63 x 1.5		
Type of	fgrease		Sh	ell Gadı	us S5 V100) or Equiv	alent		Aux	diliary te	erminal l	хох			Avail	able on Reque	est		
I _A /I _N - L	ocked R	otor Cu	irrent / F	Rated Cu	urrent				Τ _κ /	T _N - Bre	akdown	Torque	/ Ratec	l Torque	2				

 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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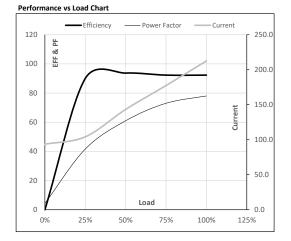
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Model No. SCA1104A3111GAAD01

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	110	150	212.6	743	146.68	1438.42	IE2	50	S1	1000	7.8323	1547

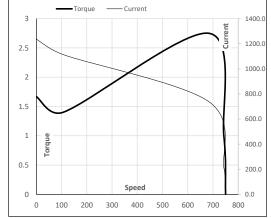
Motor Load Dat	ta						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	93.6	104.1	143.3	177.4	212.6	
Torque	Nm	0.0	357.1	715.8	1076.2	1438.4	
Speed	r/min	750	748	747	745	743	
Efficiency	%	0.0	90.0	93.7	92.3	92.3	
Power Factor	%	4.3	41.6	61.0	73.0	78.0	



Motor Speed Torque Data

	-					
Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	107	684	743	750
Current	А	1236.7	1113.1	738.7	212.6	93.6
Torque	pu	1.7	1.4	2.7	1	0

Starting Characteristics Chart



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

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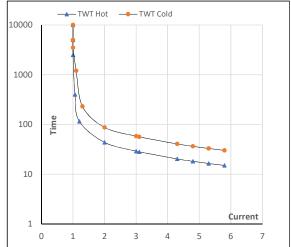
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	415	Δ	50	110	150	212.6	743	146.68	1438.42	IE2	50	S1	1000	7.8323	1547

Motor Speed Torque Data

Load		FL	I_1	I ₂	I ₃	I_4	I ₅	LR
TWT Hot	S	10000	44	29	25	17	16	15
TWT Cold	s	10000	87	58	45	35	31	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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