PRODUCT INFORMATION PACKET

Model No: SCA2803A3111GAAD01 Catalog No: SCA2803A3111GAAD01 TerraMAX® Cast Iron Motor, 375 HP, 3 Ph, 50 Hz, 415 V, 1000 RPM, 355L Frame, TEFC



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Motors

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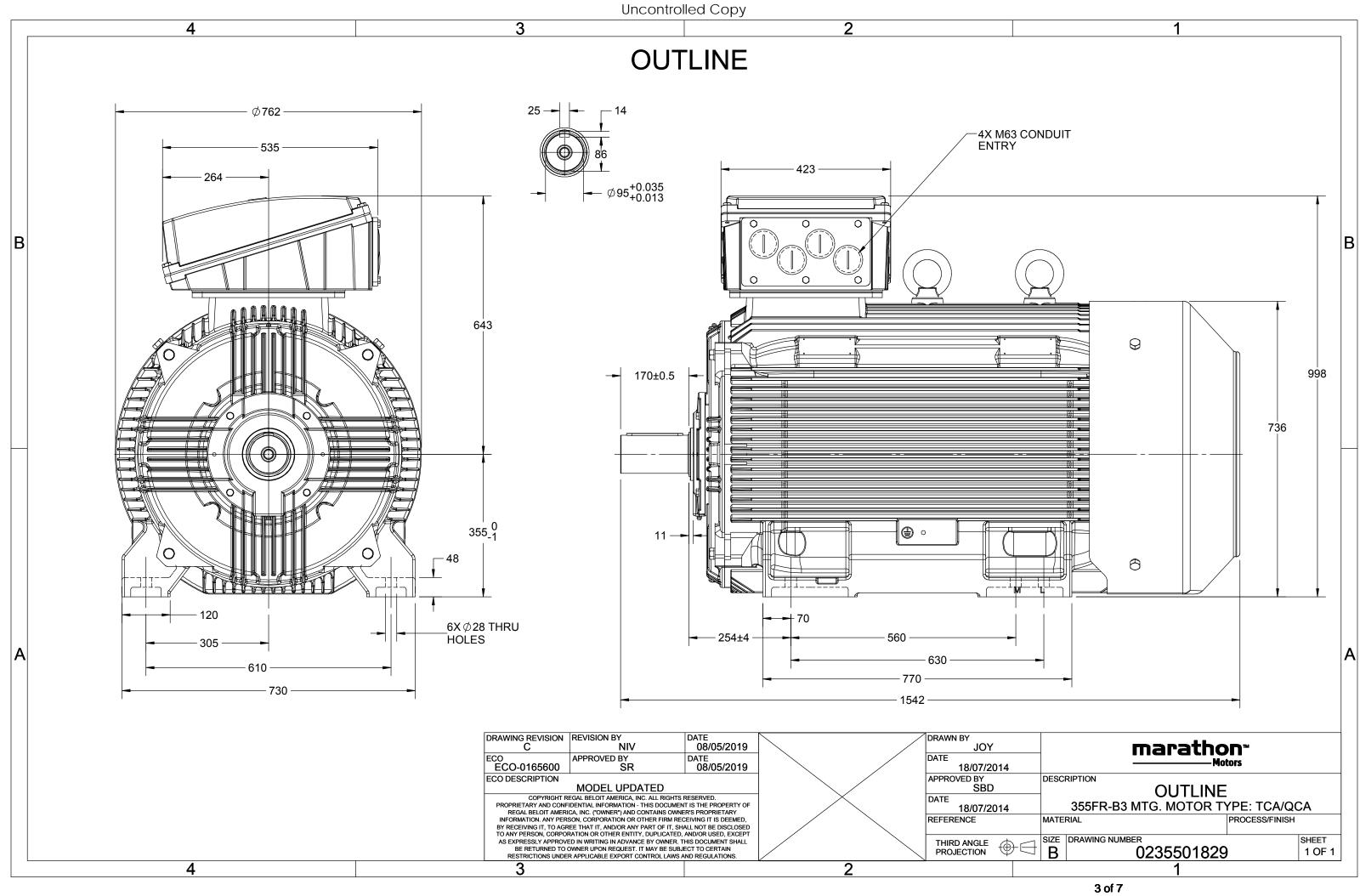
Nameplate Specifications

Output HP	375 Hp	Output KW	280.0 kW
Frequency	50 Hz	Voltage	415 V
Current	476.6 A	Speed	990 rpm
Service Factor	1	Phase	3
Efficiency	95 %	Power Factor	0.86
Duty	S1	Insulation Class	F
Frame	355L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	50 °C
Drive End Bearing Size	6322	Opp Drive End Bearing Size	6322
Drive End Bearing Size UL	6322 No	Opp Drive End Bearing Size CSA	6322 No
·			

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line	
Poles	6	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	ТОР			
Outline Drawing	0235501829	Connection Drawing	8442000085	

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Model No. SCA2803A3111GAAD01

	Δ / Y	f	Р	Р		2	т	IE	0		+ 1000	1		at la	ad	1/1	т /т	т /т
U		-	-		1	n	T				t load			at _ lo		I _A /I _N		T _K /T _N
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL		1/2FL	FL		1/2FL	[pu]	[pu]	[pu]
415	Δ	50	280	375	476.6	990	2697.73	IE2	-	95	95	95.8	0.86	0.84	0.76	5.3	1.9	2.3
Motor	type				SCA				Deg	ree of	protecti	on				IP 55		
Enclosi					TEFC					unting						IM B3		
	Material				Cast Irc	n				ling m						IC 411		
Frame					355L					0	ight - ap	orox.				1974		kg
Duty					S1						ght - app					2019		kg
•	e variatio	on *			± 10%					or ine						12.7166		kgm ²
Freque	ncy varia	ation *			± 5%				Load	d inert	ia				Cust	omer to Provid	e	
Combir	ned varia	ation *			10%				Vibr	ation l	evel					2.8		mm/s
Design					Ν				Nois	Noise level (1meter distance from motor) 70			dB(A)
Service	factor				1.0				No.	of star	ts hot/c	old/Equ	ally spr	ead		2/3/4		
Insulati	ion class				F				Star	ting m	ethod					DOL		
Ambier	nt tempe	erature			-20 to +	50		°C	Тур	e of co	upling					Direct		
Tempe	rature ri	se (by r	esistan	ce)	70 [Class	B]		К	LR v	vithsta	nd time	(hot/co	ld)			20/40		s
Altitud	e above	sea leve	el		1000			meter	Dire	ction o	of rotatio	on			В	i-directional		
Hazard	ous area	a classif	ication		NA				Star	ndard r	otation				Clo	ckwise form DE		
	Zone cla	assificat	tion		NA				Pain	nt shad	e					RAL 5014		
	Gas gro	up			NA				Acce	essorie	s							
	Temper	ature c	lass		NA					Ac	cessory ·	- 1				-		
Rotor t	ype			Al	uminum D	ie cast				Ac	cessory ·	- 2				-		
Bearing	g type				Anti-frictio					Ac	cessory ·	- 3				-		
DE / NI	DE bearir	ng		63	22 C3 / 6	322 C3			Terr	ninal b	ox posit	ion				TOP		
Lubrica	tion met	thod			Regrease				Max	kimum	cable siz	ze/cond	uit size	1R	x 3C x 3	00mm²/4 x M6	3 x 1.5	
Type of	f grease		Sł	nell Gadı	us S5 V100) or Equiv	alent		Aux	iliary t	erminal l	ьох			Avail	able on Reques	t	

 $I_{\text{A}}/I_{\text{N}}$ - Locked Rotor Current / Rated Current $T_{\text{A}}/T_{\text{N}}$ - 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 combined variation are as per IEC60034-1

Technical da	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	-	-	IS 12615 : 2018	-	-	-					

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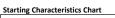
Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	415	Δ	50	280	375	476.8	990	275.09	2697.73	IE2	50	S1	1000	12.7166	1974

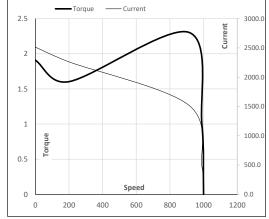
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	142.4	179.4	277.0	377.7	476.8	
Torque	Nm	0.0	669.3	1341.7	2017.7	2697.7	
Speed	r/min	1000	998	995	993	990	
Efficiency	%	0.0	93.8	95.8	95.0	95.0	
Power Factor	%	4.0	57.8	76.0	84.0	86.0	

Performance vs Load Chart - Efficiency ----- Power Factor ------ Current 120 600.0 EFF & PF 100 500.0 400.0 80 Current 60 300.0 40 200.0 20 100.0 Load 0 0.0 25% 50% 75% 100% 125% 0%

Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	200	911	990	1000	
Current	А	2514.0	2262.6	1526.4	476.8	142.4	
Torque	pu	1.9	1.6	2.3	1	0	





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

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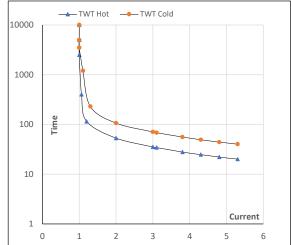
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Enclosure	U	Δ/Υ	f	Р	Р	I	n	т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	415	Δ	50	280	375	476.8	990	275.09	2697.73	IE2	50	S1	1000	12.7166	1974

Motor Speed Torque Data

Load		FL	1 ₁	I ₂	I ₃	I ₄	1 ₅	LR
TWT Hot	S	10000	53	35	27	24	21	20
TWT Cold	s	10000	106	71	54	48	43	40
Current	pu	1	2	3	4	4.5	5	5.4

Thermal Characteristics Chart



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

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