PRODUCT INFORMATION PACKET

Model No: SCA0154A3111GAAD01 Catalog No: SCA0154A3111GAAD01 TerraMAX® Cast Iron Motor, 20 HP, 3 Ph, 50 Hz, 415 V, 750 RPM, 200L Frame, TEFC



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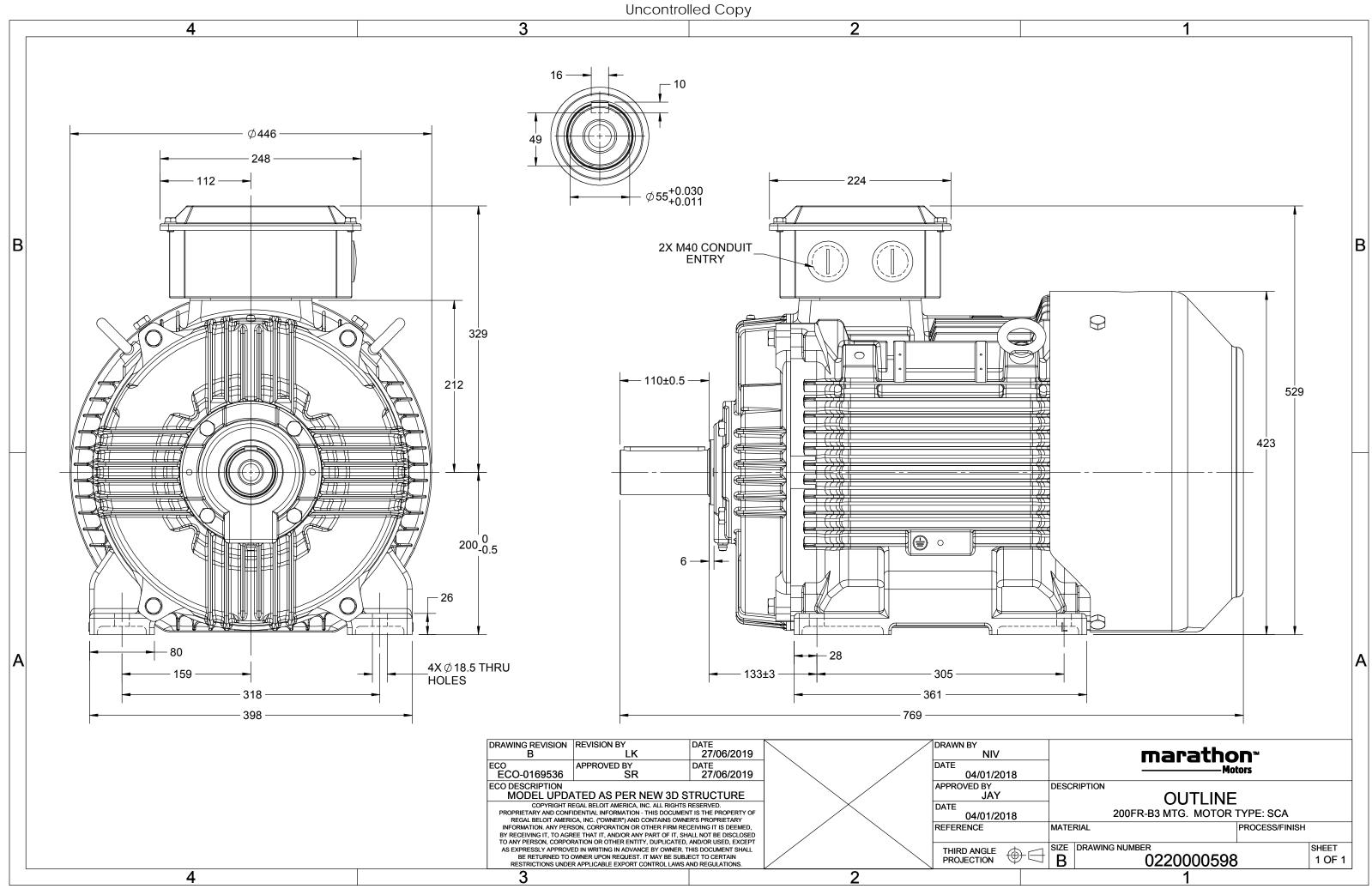
Nameplate Specifications

Output HP	20 Hp	Output KW	15.0 kW
Frequency	50 Hz	Voltage	415 V
Current	32.2 A	Speed	730 rpm
Service Factor	1	Phase	3
Efficiency	88 %	Power Factor	0.736
Duty	S1	Insulation Class	F
Frame	200L	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	200L No Protection	Ambient Temperature	Totally Enclosed Fan Cooled 50 °C
			•
Thermal Protection	No Protection	Ambient Temperature	50 °C
Thermal Protection Drive End Bearing Size	No Protection 6312	Ambient Temperature Opp Drive End Bearing Size	50 °C 6212

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	769 mm	Frame Length	370 mm	
Shaft Diameter	55 mm	Shaft Extension	110 mm	
Assembly/Box Mounting	TOP			
Connection Drawing	8442000085	Outline Drawing	0220000598	

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U	Δ / Y	f	Р	Р	I	n	т	IE	9	6 EFF a	t loa	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	15	20	32.0	730	195.54	IE2	-	88	88	89.2	0.74	0.67	0.54	5.9	1.8	2.9
Motor	tyne				SCA				Deg	ree of	protecti	on				IP 55		
Enclosi					TEFC				0	unting		011				IM B3		
	Material	1			Cast Iro					ling me						IC 411		
Frame					200L					0	ght - ap	aroy				300		kg
Duty	3120				 S1						sht - app					330		kg
,	e variatio	n *			± 10%	Ś				or iner		10.				0.7327		kgm ²
	ncy varia				± 5%										Custo	omer to Pro	ovide	Kgill
	ned varia				10%		Load inertia Vibration level								cust	2.2	, viac	mm/s
Design					N							ər distar	nce fror	n motor	1	61		
Service	factor				1.0						ts hot/c				/	2/3/4		dB(A)
	ion class				F					ting m		olu, Equ	any spi	cuu		DOL		
	nt tempe				-20 to +	50		°C		e of co						Direct		
	rature ri		esistan	-e)	70 [Class			К	71		nd time	(hot/co	Id)					S
	e above	• •		,	1000	•		meter			of rotation	· ·	iu)		Bi-directional			3
	ous area				NA			meter			otation	211			Cloc	kwise form	n DE	
	Zone cla				NA					t shad						RAL 5014		
	Gas gro				NA					essorie	-							
	Temper	•	lass		NA				1000		cessory -	- 1				-		
Rotor t				Al	uminum [Die cast					cessory					-		
Bearing				A	Anti-frictio	n ball					cessory					-		
	DE bearii	ng		63	312 C3 / 6	212 C3			Terr		ox posit					TOP		
	ition me	0			Regrease						cable si		uit size	1R	x 3C x 5	50mm²/2 x	M40 x 1.5	
	f grease		Sh	ell Gad	us S5 V100		/alent				erminal					NA		
7,220	0.22.50									,								

 $\rm I_A/\rm I_N$ - 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	-	-	IS 12615 : 2018	-	-	-

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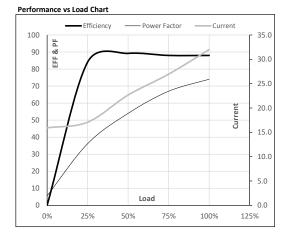
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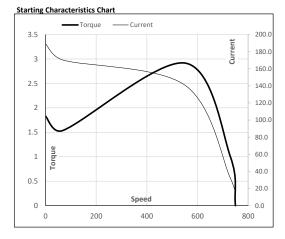
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Enclosure	U (V)	Δ / Y Conn	f [Hz]	P [kW]	P [hp]	۱ [A]	n [RPM]	T [kgm]	T [Nm]	IE Class	Amb [°C]	Duty	Elevation [m]	Inertia [kg-m ²]	Weight [kg]
TEFC	415	Δ	50	15	20.0	32.0	730	19.94	195.54	IE2	50	S1	1000	0.7327	300.3

Motor Load Dat	ta						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	15.9	17.1	22.7	27.0	32.0	
Torque	Nm	0.0	47.9	96.3	145.5	195.5	
Speed	r/min	750	745	740	735	730	
Efficiency	%	0.0	84.1	89.2	88.0	88.0	
Power Factor	%	5.6	36.2	54.0	67.0	74.0	



Motor Speed	Forque Data						
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	68	551	730	750	
Current	А	189.1	170.2	140.7	32.0	15.9	
Torque	pu	1.8	1.5	2.9	1	0	



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

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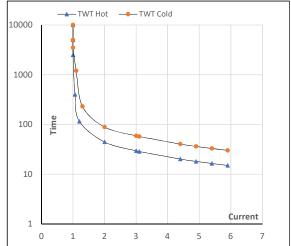
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Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	415	Δ	50	15	20	32.0	730	19.94	195.54	IE2	50	S1	1000	0.7327	300

Motor Speed Torque Data

Load		FL	I_1	I ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	44	30	25	17	16	15
TWT Cold	s	10000	86	59	45	35	31	30
Current	pu	1	2	3	4	5	5.5	5.9

Thermal Characteristics Chart



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

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