PRODUCT INFORMATION PACKET

Model No: SCA0302A4111GAA001 Catalog No: SCA0302A4111GAA001 TerraMAX® Cast Iron Motor, 40 HP, 3 Ph, 50 Hz, 380/660 V, 1500 RPM, 200L Frame, TEFC



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Motors





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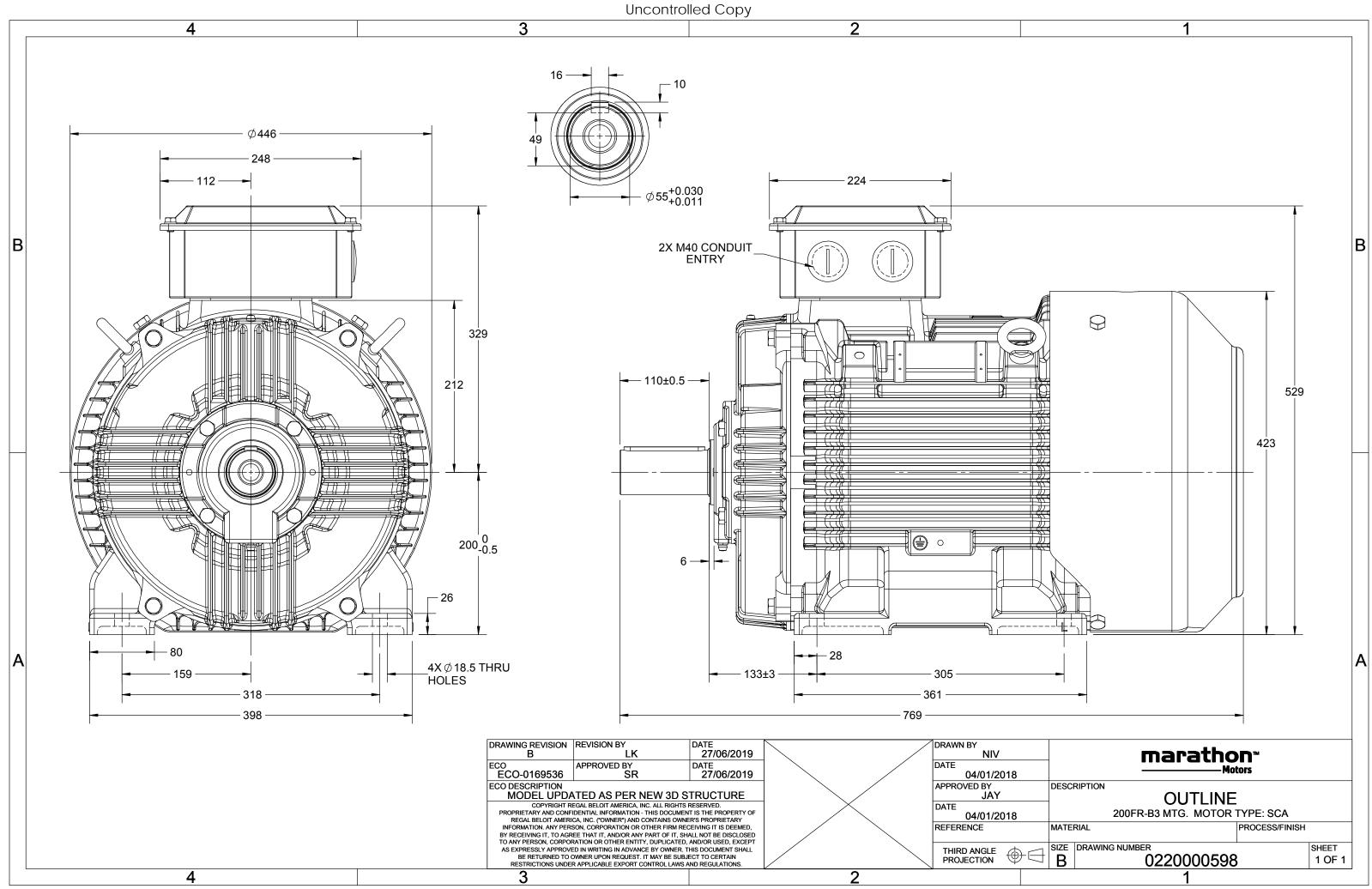
Nameplate Specifications

Output HP	40 Hp	Output KW	30.0 kW
Frequency	50 Hz	Voltage	380/660 V
Current	58.1 A	Speed	1471 rpm
Service Factor	1	Phase	3
Efficiency	92.3 %	Power Factor	0.85
Duty	S1 Insulation Class 200L Enclosure		F
Frame			Totally Enclosed Fan Cooled
Tranic	2001	Enclocato	Totally Enclosed I all cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection Drive End Bearing Size	No Protection 6312	Ambient Temperature Opp Drive End Bearing Size	40 °C 6212

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	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	769 mm	Frame Length	370 mm
Shaft Diameter	55 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0220000598

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U	Δ / Y	f	Р	Р	I	n	Т	IE	9	% EFF a	t load	ł	PF	at lo	ad	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]
380/660	Δ	50	30	40	58.1	1471	193.61	IE2	-	92.3	92.3	93	0.85	0.82	0.72	6.2	2.2	2.8
Motor typ	e		SCA						Dee	ree of	orotecti	on				IP 55		
Enclosure	6				TEFC					Degree of protection Mounting type					IM B3			
Frame Ma	terial				Cast Irc	on			Coc	ling me	thod					IC 411		
Frame size					200L				Мо	tor wei	ght - app	orox.				270		kg

Duty	S1		Gross weight - approx.	300	kg
Voltage variation *	± 10%		Motor inertia	0.2616	kgm ²
Frequency variation *	± 5%		Load inertia	Customer to Provide	
Combined variation *	10%		Vibration level	2.2	mm/s
Design	Ν		Noise level (1meter distance from moto	or) 66	dB(A)
Service factor	1.0		No. of starts hot/cold/Equally spread	2/3/4	
Insulation class	F		Starting method	DOL	
Ambient temperature	-20 to +40	°C	Type of coupling	Direct	
Temperature rise (by resistance	e) 80 [Class B]	К	LR withstand time (hot/cold)	12/25	s
Altitude above sea level	1000	meter	Direction of rotation	Bi-directional	
Hazardous area classification	NA		Standard rotation	Clockwise form DE	
Zone classification	NA		Paint shade	RAL 5014	
Gas group	NA		Accessories		
Temperature class	NA		Accessory - 1	-	
Rotor type	Aluminum Die cast		Accessory - 2	-	
Bearing type	Anti-friction ball		Accessory - 3	-	
DE / NDE bearing	6312 C3 / 6212 C3		Terminal box position	TOP	
Lubrication method	Regreasable		Maximum cable size/conduit size	LR x 3C x 50mm²/2 x M40 x 1.5	
Type of grease	CHEVRON SRI-2 or Equivalent		Auxiliary terminal box	Available on Request	

 I_A/I_N - Locked Rotor Current / Rated Current T_A/T_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 combine variation are as per IEC60034-1

Technical dat	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	-	GB 18613-2012 Grade 2	-	-	-	IEC: 60034-30					

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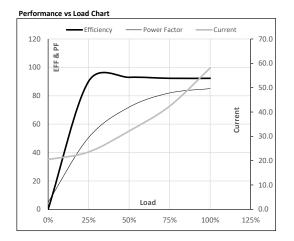
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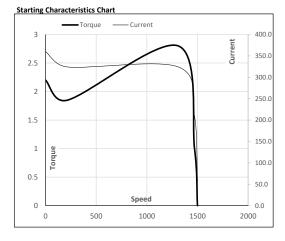
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Enclosure	U (V)	Δ / Y Conn	f [Hz]	P [kW]	P [hp]	۱ [A]	n [RPM]	T [kgm]	T [Nm]	IE Class	Amb [°C]	Duty	Elevation [m]	Inertia [kg-m ²]	Weight [kg]
TEFC	380/660	Δ	[H2] 50	30	40	58.1	[RPIVI] 1471	19.74	193.61	IE2	40	S1	1000	0.2616	270
	,	_													

Motor Load Dat	ta						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	20.4	23.6	32.2	42.4	58.1	
Torque	Nm	0.0	47.7	95.8	144.4	193.6	
Speed	r/min	1500	1493	1487	1480	1471	
Efficiency	%	0.0	90.2	93.0	92.3	92.3	
Power Factor	%	5.0	50.6	72.0	82.0	85.0	



Motor Speed Torque Data										
Load Point		LR	P-Up	BD	Rated	NL				
Speed	r/min	0	214	1311	1471	1500				
Current	А	360.2	324.2	209.0	58.1	20.4				
Torque	pu	2.2	1.8	2.8	1	0				



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

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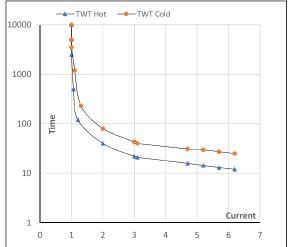
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						n	1	1	IE	Amb	Duty	Elevation	Inertia	Weight
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC 380/6	60 Δ	50	30	40	58.1	1471	19.74	193.61	IE2	40	S1	1000	0.2616	270

Motor Speed Torque Data

Load		FL	I_1	I_2	l ₃	I_4	ا5	LR
TWT Hot	s	10000	40	22	17	15	13	12
TWT Cold	s	10000	80	43	35	30	28	25
Current	pu	1	2	3	4	5	5.5	6.2

Thermal Characteristics Chart



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

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