PRODUCT INFORMATION PACKET

Model No: SCA0371A4111GAA001 Catalog No: SCA0371A4111GAA001 TerraMAX® Cast Iron Motor, 50 HP, 3 Ph, 50 Hz, 380/660 V, 3000 RPM, 200L Frame, TEFC



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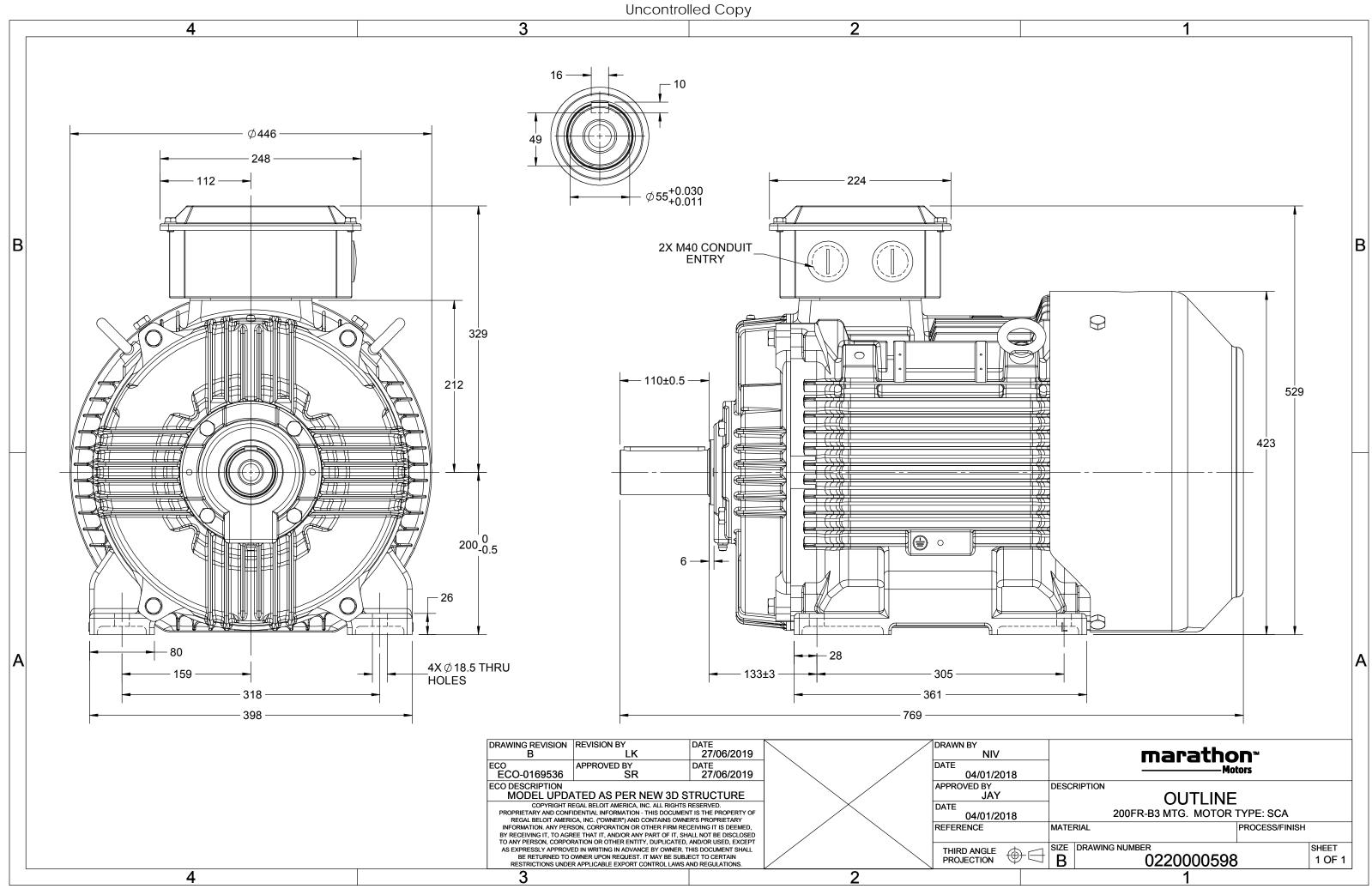
Nameplate Specifications

Output HP	50 Hp	Output KW	37.0 kW
Frequency	50 Hz	Voltage	380/660 V
Current	67.5 A	Speed	2953 rpm
Service Factor	1	Phase	3
Efficiency	92.5 %	Power Factor	0.90
Duty	S1	Insulation Class	F
Frame	200L	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	200L No Protection	Enclosure Ambient Temperature	Totally Enclosed Fan Cooled 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	2	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	Тор		
Connection Drawing	8442000085	Outline Drawing	0220000598

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3 of 7





TerraMAX[®]

Model No. SCA0371A4111GAA001

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U	Δ / Y	f	Р	Р	I	n	Т	IE		% EFF a	t load		PI	at lo		I_A/I_N	T_A/T_N	T _K ∕T _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]
380/660	Δ	50	37	50	67.5	2953	120.57	IE2	-	92.5	92.5	92.2	0.9	0.88	0.81	6.5	2.0	3.1
Motor typ	e				SCA				Deg	ree of	protecti	on				IP 55		
Enclosure					TEFC				Mounting type							IM B3		
Frame Ma	terial				Cast Ire	on			Coo	Cooling method				IC 411				
Frame size	9				200L				Mo	tor wei	ght - ap	orox.				273		kg
Duty					S1				Gro	ss weig	sht - app	rox.				303		kg
Voltage va	riation	*			± 10%	6			Mo	tor iner	tia					0.1867		kgm ²
Frequency	variatio	on *			± 5%				Loa	d inerti	а				Custo	omer to Provi	de	
Combined	variatio	n *			10%				Vib	ration l	evel					2.2		mm/s
Design					Ν				Noi	se level	(1mete	er distan	nce fron	n motor)	77		dB(A)
Service fac	ctor				1.0				No.	of star	ts hot/c	old/Equ	ally spr	ead		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	ТОР	
Lubrication method	Regreasable		Maximum cable size/conduit size	1R 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 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			



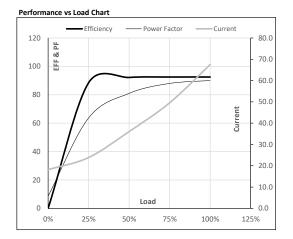
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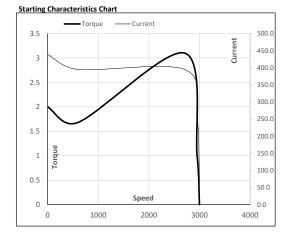
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Enclosure	U (V)	Δ / Y Conn	f [Hz]	P [kW]	P [hp]	ا [A]	n [RPM]	T [kgm]	T [Nm]	IE Class	Amb [°C]	Duty	Elevation [m]	Inertia [kg-m ²]	Weight [kg]
TEFC	380/660	Δ	50	37	50	67.5	2953	12.29	120.57	IE2	40	S1	1000	0.1867	273

Motor Load Dat	ta						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	18.1	23.9	36.1	49.6	67.5	
Torque	Nm	0.0	29.8	59.8	90.0	120.6	
Speed	r/min	3000	2989	2978	2966	2953	
Efficiency	%	0.0	88.5	92.2	92.5	92.5	
Power Factor	%	8.6	63.7	81.0	88.0	90.0	



Motor Speed Torque Data											
Load Point		LR	P-Up	BD	Rated	NL					
Speed	r/min	0	600	2705	2953	3000					
Current	А	438.9	395.0	255.9	67.5	18.1					
Torque	pu	2.0	1.7	3.1	1	0					



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

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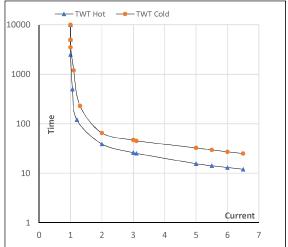
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Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC 38	880/660	Δ	50	37	50	67.5	2953	12.29	120.57	IE2	40	S1	1000	0.1867	273

Motor Speed Torque Data

Load		FL	I_1	I_2	I ₃	I_4	I ₅	LR
TWT Hot	s	10000	39	26	20	16	14	12
TWT Cold	s	10000	65	47	40	33	30	25
Current	pu	1	2	3	4	5	5.5	6.5

Thermal Characteristics Chart



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

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