PRODUCT INFORMATION PACKET

Model No: SCA0754A4113GAA001 Catalog No: SCA0754A4113GAA001 TerraMAX® Cast Iron Motor, 100 HP, 3 Ph, 50 Hz, 380/660 V, 750 RPM, 315M Frame, TEFC



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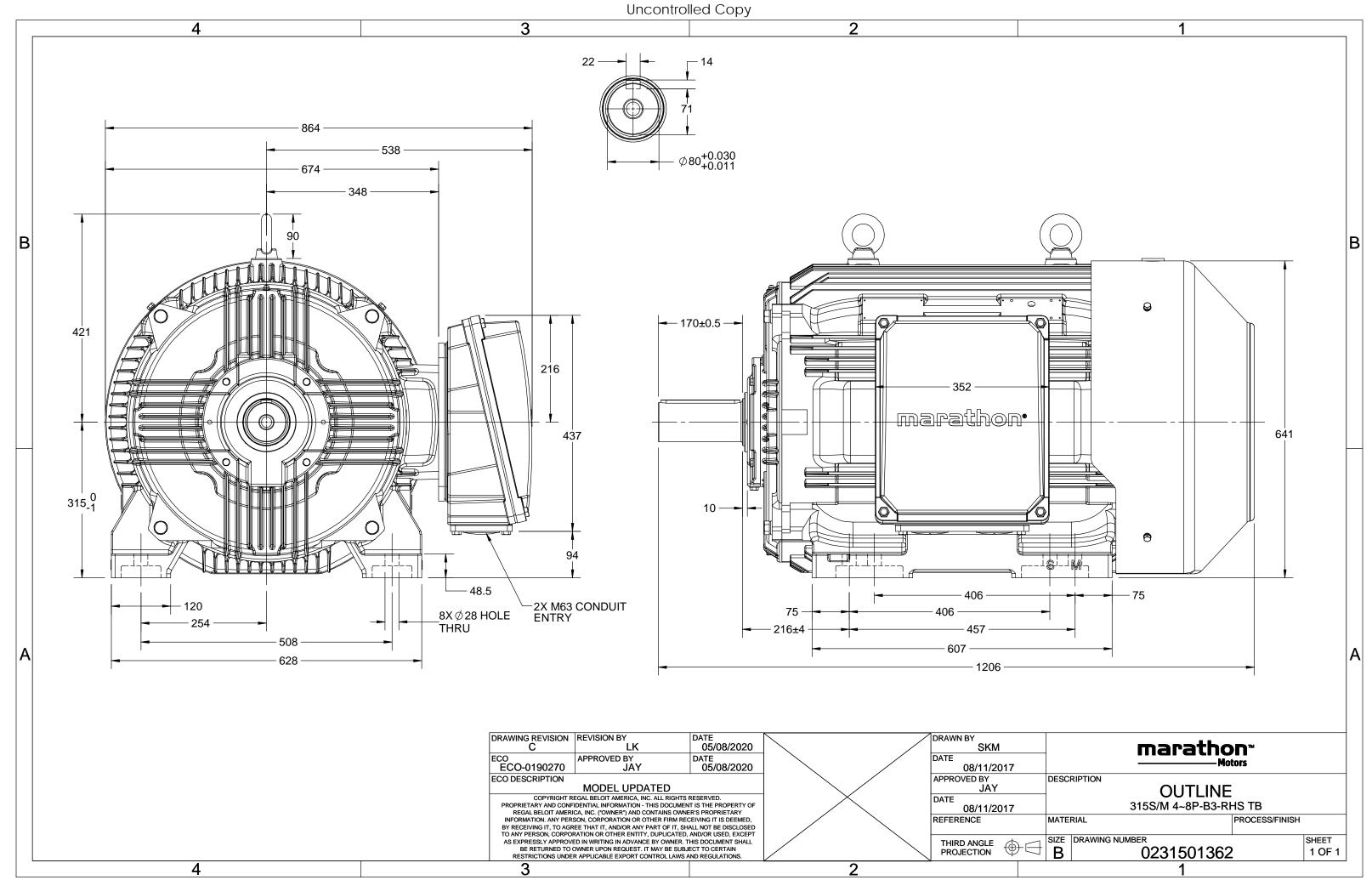
Nameplate Specifications

Output HP	100 Hp	Output KW	75.0 kW		
Frequency	50 Hz	Voltage	380/660 V		
Current	170.4 A	Speed	743 rpm		
Service Factor	1	Phase	3		
Efficiency	91.6 %	Power Factor	0.73		
Duty	S1	Insulation Class	F		
Frame	315M	Enclosure	Totally Enclosed Fan Cooled		
Frame Thermal Protection	315M 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 6319	Ambient Temperature Opp Drive End Bearing Size	40 °C 6319		

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	СЗ
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1206 mm	Frame Length	729 mm
Shaft Diameter	80 mm	Shaft Extension	170 mm
Assembly/Box Mounting	R Side		
Connection Drawing	8442000085	Outline Drawing	0231501362

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TerraMAX[®]

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U	Δ / Y	f	Р	Р	1	n	т	IE	9	% EFF a	t load	_load PF at loa			bad	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		FL		1/2FL	[pu]	[pu]	[pu]
380/660	Δ	50	75	100	170.4	743	959.70	IE2	-	91.6	91.6	, 92.1	0.73	0.67	0.55	4.8	1.9	2.0
Motor typ					SCA					Degree of protection					IP 55			
Enclosure					TEFC					unting						IM B3		
Frame Ma	terial				Cast Irc				Coo	oling me	ethod				IC 411			
Frame size	2				315M				Mo	tor wei	ght - ap	prox.				959		
Duty					S1				Gro	Gross weight - approx.					1004			
Voltage va	riation *	•			± 10%	,			Mo	Motor inertia				4.8296			kgm ²	
Frequency	/ variatio	n *			± 5%		Load inertia				Customer to Provide							
Combined	variatio	n *			10%				Vib	Vibration level					2.8		mm/s	
Design					N				Noi	Noise level (1meter distance from motor				-)	64		dB(A)	
Service fac	ctor				1.0				No.	No. of starts hot/cold/Equally spread				2/3/4				
Insulation	class				F				Sta	Starting method				DOL				
Ambient to	emperat	ure			-20 to +	40		°C	Тур	ype of coupling Direct				Direct				
Temperati	ure rise (by resis	stance)		80 [Class	B]		К	LR	withsta	nd time	time (hot/cold) 15/30				S		
Altitude al	bove sea	level			1000			meter	Dire	ection of rotation B			i-directional					
Hazardous	s area cla	assificat	ion		NA				Standard rotation			Clockwise form DE						
	Zone cl	assifica	tion		NA				Paint shade			RAL 5014						
	Gas gro	oup			NA				Acc	Accessories								
	Temper	rature c	lass		NA				Accessory - 1			-						
Rotor type							-											
Bearing ty	Bearing type Anti-friction ball				Accessory - 3													
DE / NDE b				63	319 C3/ 63	819 C3			Ter	Terminal box position			RHS					
, Lubricatio	0	d			Regreasa	ble					cable siz		uit size	1R	x 3C x 2	40mm²/2 x M	63 x 1.5	
Type of gr	ease			CHEVRO	DN SRI-2 o	r Equival	ent						able on Reque	est				

 $I_{\text{A}}/I_{\text{N}}$ - 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	-	GB 18613-2012 Grade 2	-	-	-	IEC: 60034-30		

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