### **PRODUCT INFORMATION PACKET**



Model No: SCA1322A4133GAA001 Catalog No: SCA1322A4133GAA001 TerraMAX® Cast Iron Motor, 175 HP, 3 Ph, 50 Hz, 380/660 V, 1500 RPM, 315M Frame, TEFC



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## marathon®

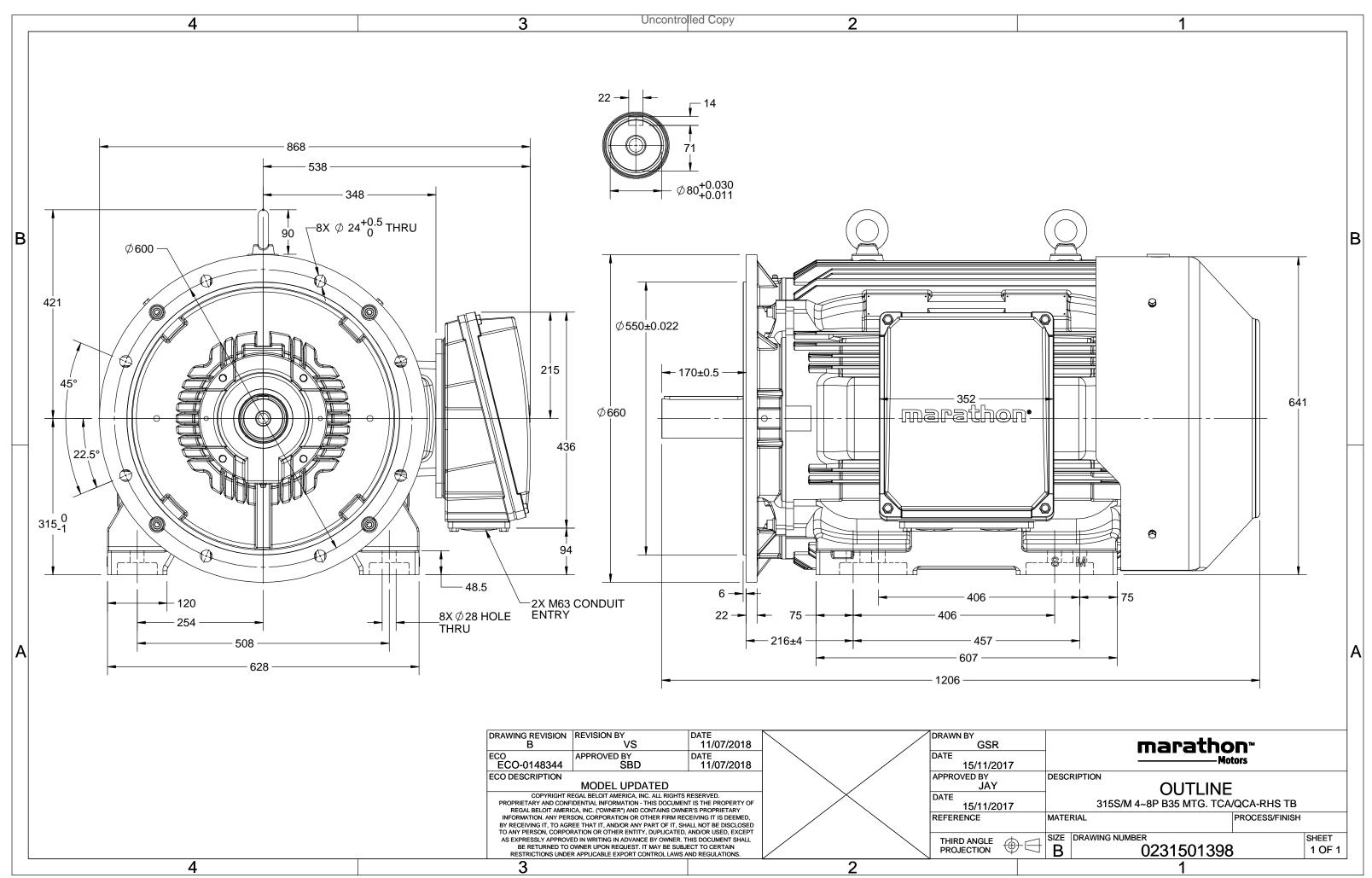
#### Nameplate Specifications

Output HP	175 Hp	Output KW	132.0 kW
Frequency	50 Hz	Voltage	380/660 V
Current	240.7 A	Speed	1486 rpm
Service Factor	1	Phase	3
Efficiency	94.7 %	Power Factor	0.88
Duty	S1	Insulation Class	F
Frame	315M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6319	Opp Drive End Bearing Size	6319
UL	No	CSA	No
CE	Yes	IP Code	55

#### **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line		
Poles	4	Rotation	Bi-Directional		
Mounting	B35	Motor Orientation	Horizontal		
Drive End Bearing	СЗ	Opp Drive End Bearing	С3		
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				
Outline Drawing	0231501398	Connection Drawing	8442000085		

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# **TerraMAX**<sup>®</sup>

Model No. SCA1322A4133GAA001

U	$\Delta / Y$	f	Р	Р	I	n	Т	IE	ç	% EFF a	t load	ł	PF	at lo	ad	I <sub>A</sub> /I <sub>N</sub>	$T_A/T_N$	$T_{\rm K}/T_{\rm N}$
(∨)	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	132	175	240.7	1486	838.47	IE2	-	94.7	94.7	95.1	0.88	0.85	0.78	6.2	1.8	2.8
Motor typ	Motor type SCA				Degree of protection					IP 55								
Enclosure	closure TEFC			Mounting type				IM B35										
Frame Ma	rame Material Cast Iron			Cooling method			IC 411											

			0		
Frame size	315M		Motor weight - approx.	960	kg
Duty	S1		Gross weight - approx.	1005	kg
Voltage variation *	± 10%		Motor inertia	3.2416	kgm <sup>2</sup>
Frequency variation *	± 5%		Load inertia	Customer to Provide	
Combined variation *	10%	10%		2.8	mm/s
Design	Ν	N		cor) 69	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)	30/15	s
Altitude above sea level	1000	meter	Direction of rotation	<b>Bi-directional</b>	
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	6319 C3 / 6319 C3		Terminal box position	RHS	
Lubrication method	Regreasable		Maximum cable size/conduit size	LR x 3C x 240mm²/2 x M63 x 1.5	
Type of grease	CHEVRON SRI-2 or Equivalent		Auxiliary terminal box	Available on Request	

 $I_{\rm A}/I_{\rm N}$  - Locked Rotor Current / Rated Current  $T_{\rm A}/T_{\rm N}$  - 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

