PRODUCT INFORMATION PACKET

Model No: SCA2002A4111GAA001 Catalog No: SCA2002A4111GAA001 TerraMAX® Cast Iron Motor, 270 HP, 3 Ph, 50 Hz, 380/660 V, 1500 RPM, 315L Frame, TEFC



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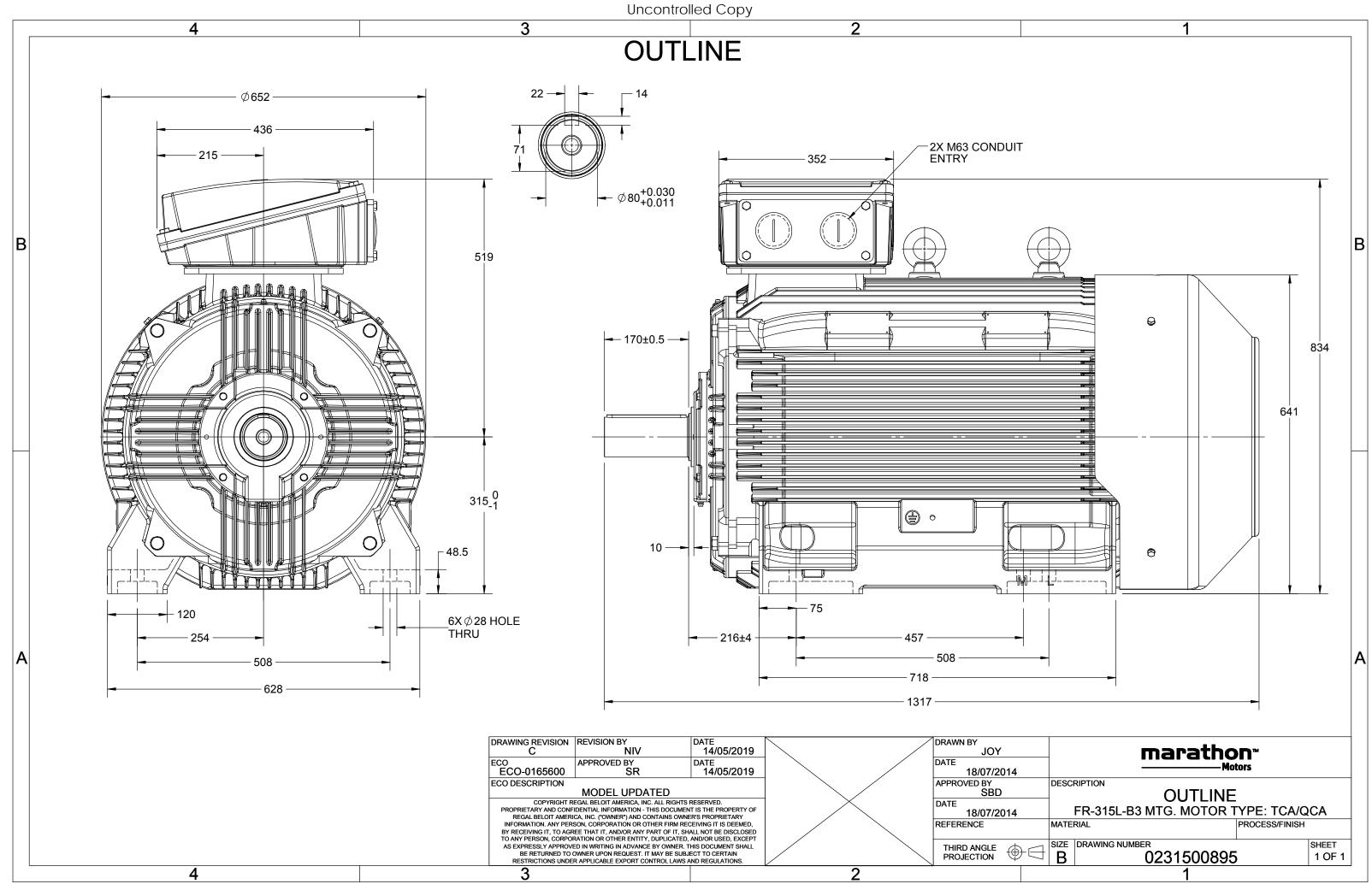
Nameplate Specifications

Output HP	270 Нр	Output KW	200.0 kW
Frequency	50 Hz	Voltage	380/660 V
Current	359.0 A	Speed	1486 rpm
Service Factor	1	Phase	3
Efficiency	95.1 %	Power Factor	0.89
Duty	S1	Insulation Class	F
_			
Frame	315L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	315L 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	4	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	1317 mm	Frame Length	840 mm
Shaft Diameter	80 mm	Shaft Extension	170 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0231500895

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3 of 7





TerraMAX[®]

Model No. SCA2002A4111GAA001

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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_{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	200	270	359.0	1486	1293.79	IE2	-	95.1	95.1	95.9	0.89	0.88	0.82	6.1	1.9	2.6

Motor type	SCA		Degree of protection	IP 55	
Enclosure	TEFC		Mounting type	IM B3	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	315L		Motor weight - approx.	1243	kg
Duty	S1		Gross weight - approx.	1288	kg
Voltage variation *	± 10%		Motor inertia	5.0623	kgm ²
Frequency variation *	± 5%		Load inertia	Customer to Provide	
Combined variation *	10%		Vibration level	2.8	mm/s
Design	Ν		Noise level (1meter distance from moto	or) 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)	15/30	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	6319 C3 / 6319 C3		Terminal box position	TOP	
Lubrication method	Regreasable		Maximum cable size/conduit size 1	R x 3C x 240mm²/2 x M63 x 1.5	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_{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				



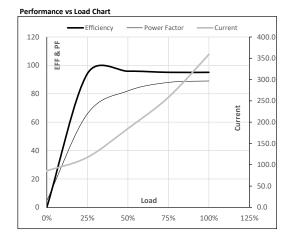
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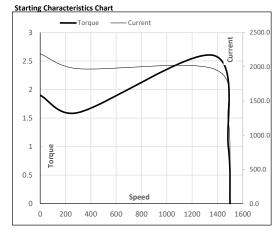
Model No. SCA2002A4111GAA001

Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380/660	Δ	50	200	270	359.0	1486	131.93	1293.79	IE2	40	S1	1000	5.0623	1243

Motor Load Dat	ta						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	85.6	117.4	184.9	258.2	359.0	
Torque	Nm	0.0	321.2	643.7	967.9	1293.8	
Speed	r/min	1500	1497	1493	1490	1486	
Efficiency	%	0.0	94.1	95.9	95.1	95.1	
Power Factor	%	4.7	65.8	82.0	88.0	89.0	



Motor Speed Torque Data													
Load Point		LR	P-Up	BD	Rated	NL							
Speed	r/min	0	300	1367	1486	1500							
Current	А	2190.0	1971.0	1206.0	359.0	85.6							
Torque	pu	1.9	1.6	2.6	1	0							



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

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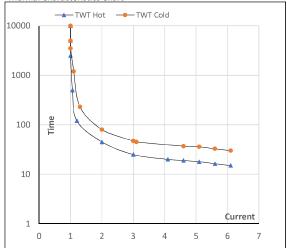
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				Amb	IE	I	Т	n	I	Р	P	f	Δ / Y	U	Enclosure
[kg]	[kg-m ²]	[m]		[°C]	Class	[Nm]	[kgm]	[rpm]	[A]	[hp]	[kW]	[Hz]	Conn	(∨)	
1243	5.0623	1000	S1	40	IE2	1293.79	131.93	1486	359.0	270	200	50	ΔC	380/660	TEFC
	5.0623	1000	31	40	ILZ	1293.79	131.93	1400	339.0	270	200	50	5 Δ	380/000	TEFC

Motor Speed Torque Data

Load		FL	I_1	I_2	l ₃	I_4	ا5	LR
TWT Hot	s	10000	45	25	21	18	17	15
TWT Cold	s	10000	80	47	46	36	34	30
Current	pu	1	2	3	4	5	5.5	6.1

Thermal Characteristics Chart



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

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