PRODUCT INFORMATION PACKET

Model No: SCA1102A4111GAA001 Catalog No: SCA1102A4111GAA001 TerraMAX® Cast Iron Motor, 150 HP, 3 Ph, 50 Hz, 380/660 V, 1500 RPM, 315S Frame, TEFC



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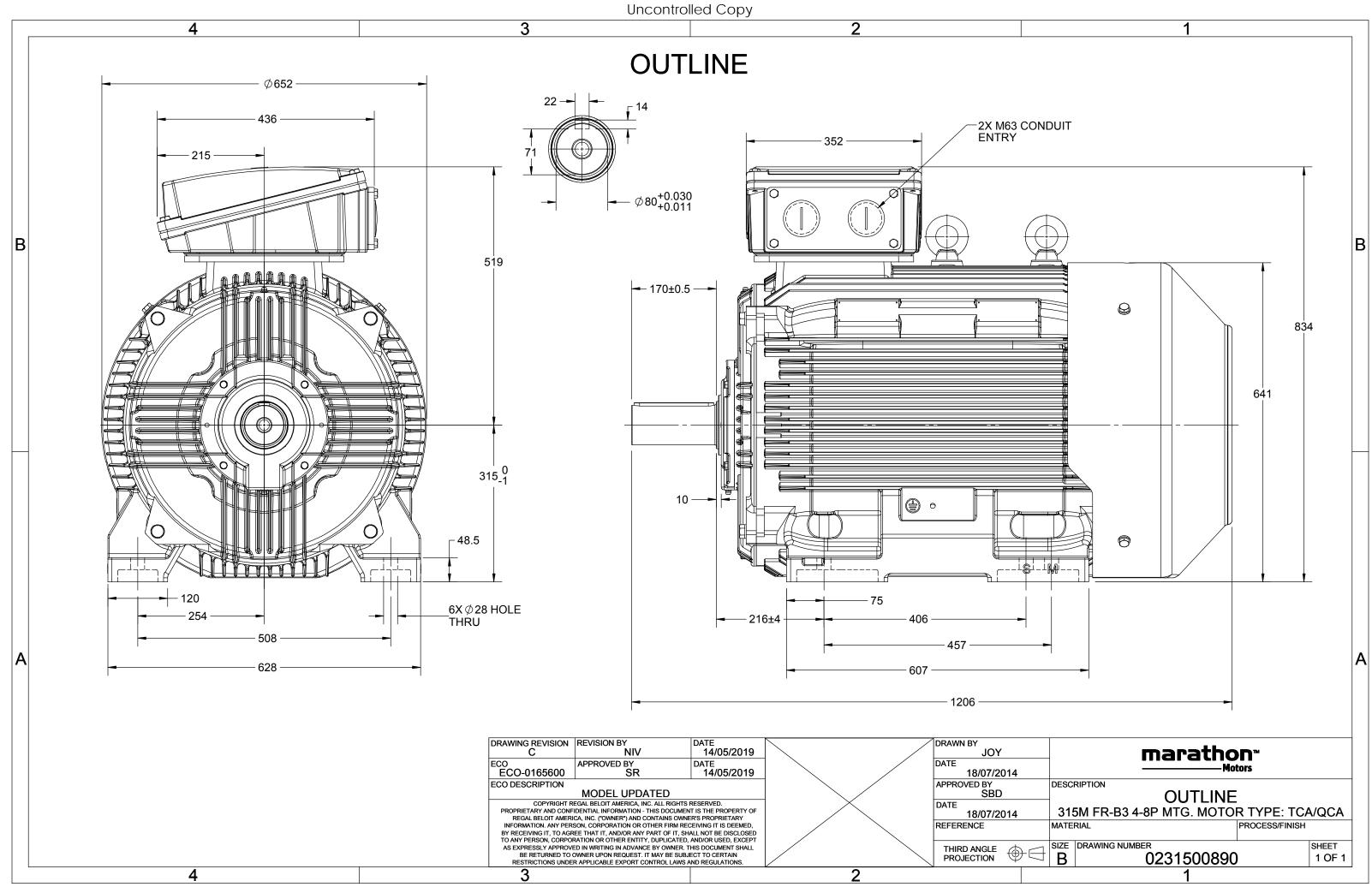
Nameplate Specifications

Output HP	150 Hp	Output KW	110.0 kW
Frequency	50 Hz	Voltage	380/660 V
Current	201.0 A	Speed	1485 rpm
Service Factor	1	Phase	3
Efficiency	94.5 %	Power Factor	0.88
Duty	S1	Insulation Class	F
Frame	315S	Enclosure	Totally Enclosed Fan Cooled
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
		-	
Drive End Bearing Size	6319	Opp Drive End Bearing Size	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	СЗ	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	Тор		
Outline Drawing	0231500890	Connection Drawing	8442000085

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U	Δ / Y	f	Р	Р	I	n	Т	IE	% EFF at load			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	110	150	201.0	1485	719.21	IE2	-	94.5	94.5	94.9	0.88	0.86	0.79	5.7	1.6	2.6
Motor typ	۵				SCA				Deg	ree of i	orotecti	on				IP 55		

Motor type	SCA		Degree of protection	IP 55	
Enclosure	TEFC		Mounting type	IM B3	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	3155		Motor weight - approx.	886	kg
Duty	S1		Gross weight - approx.	931	kg
Voltage variation *	± 10%		Motor inertia	2.9316	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	
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			



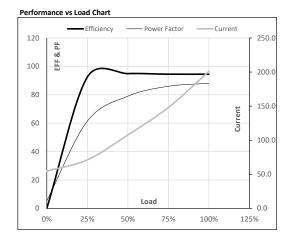
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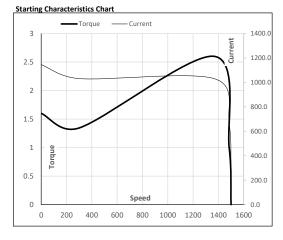
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Enclosure	U (V)	Δ / Y Conn	f [Hz]	P [kW]	P [hp]	۱ [A]	n [RPM]	T [kgm]	T [Nm]	IE Class	Amb	Duty	Elevation	Inertia [kg-m ²]	Weight [kg]
TEFC	380/660	Δ	50	110	150	201.0	1485	73.34	719.21	IE2	40	S1	[m] 1000	2.9316	[Kg] 886
												-			

Motor Load Dat	ta						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	54.8	71.1	107.7	148.0	201.0	
Torque	Nm	0.0	178.5	357.7	538.0	719.2	
Speed	r/min	1500	1496	1493	1489	1485	
Efficiency	%	0.0	92.5	94.9	94.5	94.5	
Power Factor	%	5.3	61.4	79.0	86.0	88.0	



Motor Speed Torque Data										
Load Point		LR	P-Up	BD	Rated	NL				
Speed	r/min	0	300	1366	1485	1500				
Current	А	1145.5	1031.0	658.7	201.0	54.8				
Torque	pu	1.6	1.3	2.6	1	0				
Torque	pu	1.0	1.5	2.0	1	0				



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

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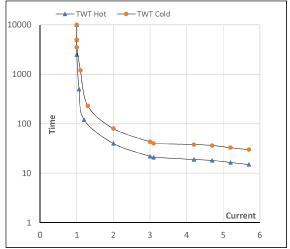
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[kgm] [Nm]	1 Class	1001			21	
[KBIII] [INIII]		[°C]		[m]	[kg-m ²]	[kg]
73.34 719.2	1 IE2	40	S1	1000	2.9316	886
	-	-				

Motor Speed Torque Data

Load		FL	I_1	I_2	I_3	I_4	ا5	LR
TWT Hot	s	10000	40	22	20	17	16	15
TWT Cold	s	10000	80	43	39	34	31	30
Current	pu	1	2	3	4	5	5.5	5.7

Thermal Characteristics Chart



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

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