PRODUCT INFORMATION PACKET

Model No: SCA1101A1121GAA001 Catalog No: SCA1101A1121GAA001 TerraMAX® Cast Iron Motor, 150 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 315S Frame, TEFC



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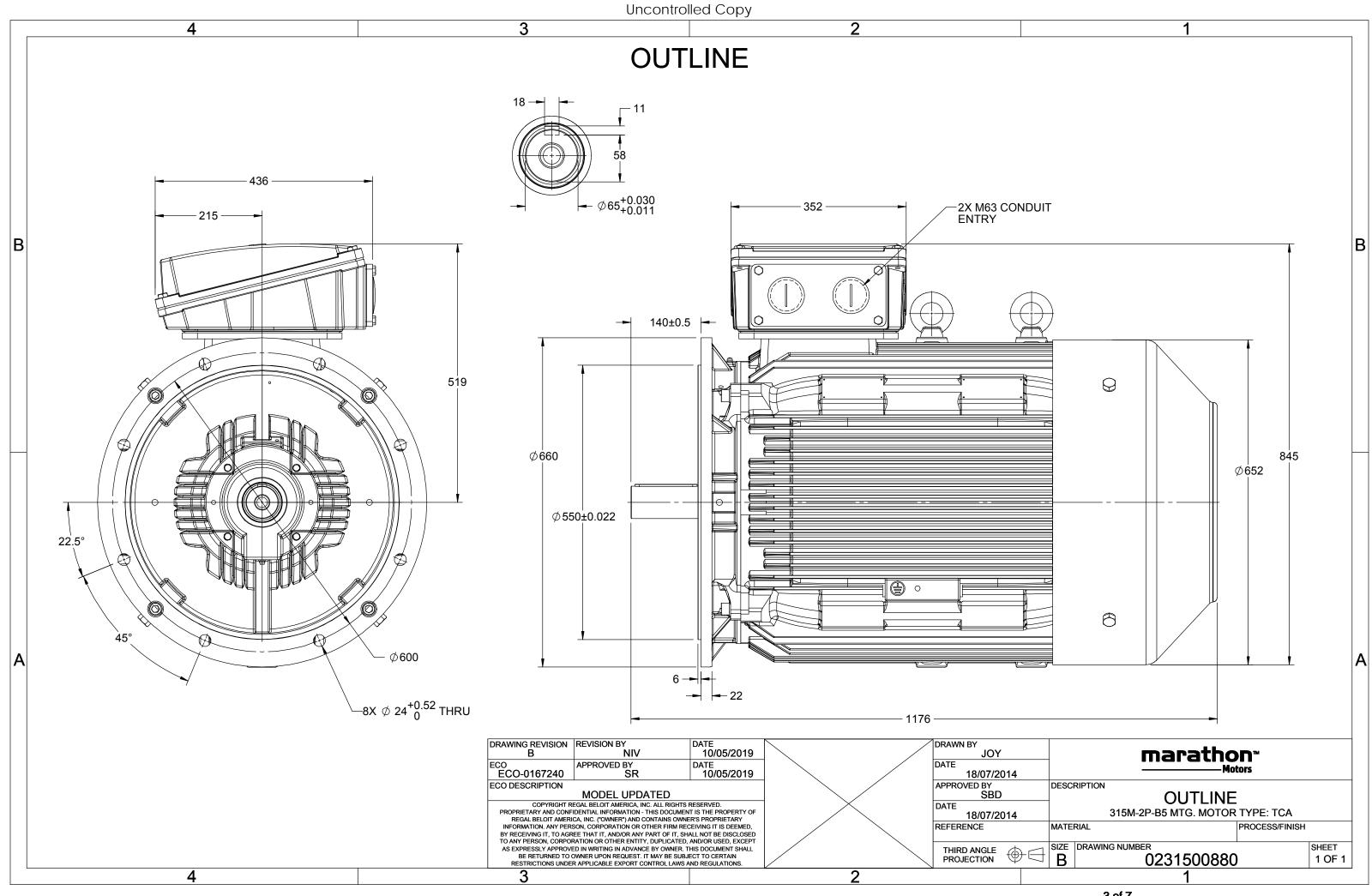
Nameplate Specifications

Output HP	150 Hp	Output KW	110.0 kW
Frequency	50 Hz	Voltage	400 V
Current	187.1 A	Speed	2980 rpm
Service Factor	1	Phase	3
Efficiency	94.3 %	Power Factor	0.9
Duty	S1	Insulation Class	F
Frame	315S	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6316	Opp Drive End Bearing Size	6316
UL	No	CSA	No
CE	Yes	IP Code	55

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	Rotation	Bi-Directional
Mounting	B5	Motor Orientation	Horizontal
Drive End Bearing	C3	Opp Drive End Bearing	С3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1176 mm	Frame Length	729 mm
Shaft Diameter	65 mm	Shaft Extension	140 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0231500880

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TerraMAX[®]

Model No. SCA1101A1121GAA001

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400 A 50 110 150 187.1 2980 358.40 IE2 - 94.3 92.4 0.9 0.88 0.82 6.4 1.8 Motor type SCA Degree of protection IP 55 IM B5 Enclosure TEFC Mounting type IM B5 Cooling method IC 411 Frame Material Cast Iron Cooling method IC 411 Image: Cooling method IC 411 Frame size 3155 Motor weight - approx. 911 Outor weight - approx. 911 Duty S1 Gross weight - approx. 911 Outor weight - approx. 911 Design N Sorvice factor 1.0 No ise level (Imeter distance from motor) 87 or Ambient temperature -20 to +40 °C Type of coupling Direct Image: Colorwide Type of coupling Direct Zone classification NA Standard rotation Colower of rotation Bi-directional Accessory - 1 PTC 150°C Accessory - 2 - </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>[A]</td> <td></td> <td>-</td> <td></td> <td>[pu]</td>						[A]		-											[pu]
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	earing	g type				Anti-fricti	on ball				Acc	essory	- 3				-		
	E / NC	DE bearii	ng			6316 C3 /	5316 C3			Terr	minal b	ox posit	ion				TOP		
Lubrication methodRegreasableMaximum cable size/conduit size1R x 3C x 240mm²/2 x M63 x 1.5	ubrica	tion me	thod			Regreas	able			Max	kimum	cable si	ze/cond	uit size	1R	x 3C x 2	40mm²/2 x N	163 x 1.5	
Type of grease CHEVRON SRI-2 or Equivalent Auxiliary terminal box Available on Request	ype of	grease			CHEV	RON SRI-2	or Equival	ent		Aux	iliary te	erminal	box			Avail	able on Requ	est	

 I_A/I_N - Locked Rotor Current / Rated Current

 T_{K}/T_{N} - Breakdown Torque / Rated Torque

 $T_{\rm A}/T_{\rm N}$ - Locked Rotor 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 dat	a are subject to change	e. There may be disc	repancies between calculated	and name plate values.		
Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	IEC: 60034-30	-	-	AS/NZ 1359:5:2004	-	IEC: 60034-30

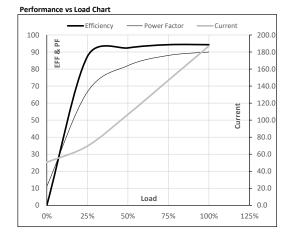
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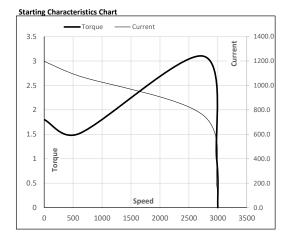
Model No. SCA1101A1121GAA001

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	400	Δ	50	110	150	187.1	2980	36.55	358.40	IE2	40	S1	1000	1.9330	911

Motor Load Data	а						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	50.6	69.6	106.6	146.8	187.1	
Torque	Nm	0.0	89.2	178.6	268.3	358.4	
Speed	r/min	3000	2995	2990	2986	2980	
Efficiency	%	0.0	87.3	92.4	94.3	94.3	
Power Factor	%	11.1	66.5	82.0	88.0	90.0	



Motor Speed T	orque Data						
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	600	2742	2980	3000	
Current	А	1197.3	1077.6	758.3	187.1	50.6	
Torque	pu	1.8	1.5	3.1	1	0	



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

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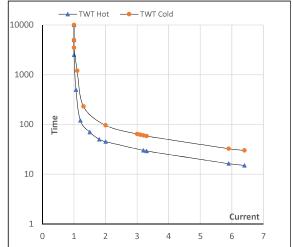
Model No. SCA1101A1121GAA001

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	400	Δ	50	110	150	187.1	2980	36.55	358.40	IE2	40	S1	1000	1.9330	911

Motor Speed Torque Data

Load		FL	I_1	I ₂	I ₃	I_4	l ₅	LR
TWT Hot	s	10000	45	36	28	25	20	15
TWT Cold	s	10000	62	61	55	45	40	30
Current	pu	1	2	3	4	5	5.5	6.4

Thermal Characteristics Chart



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

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