PRODUCT INFORMATION PACKET

Model No: SCA1103A1121GAA001 Catalog No: SCA1103A1121GAA001 TerraMAX® Cast Iron Motor, 150 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 315L Frame, TEFC



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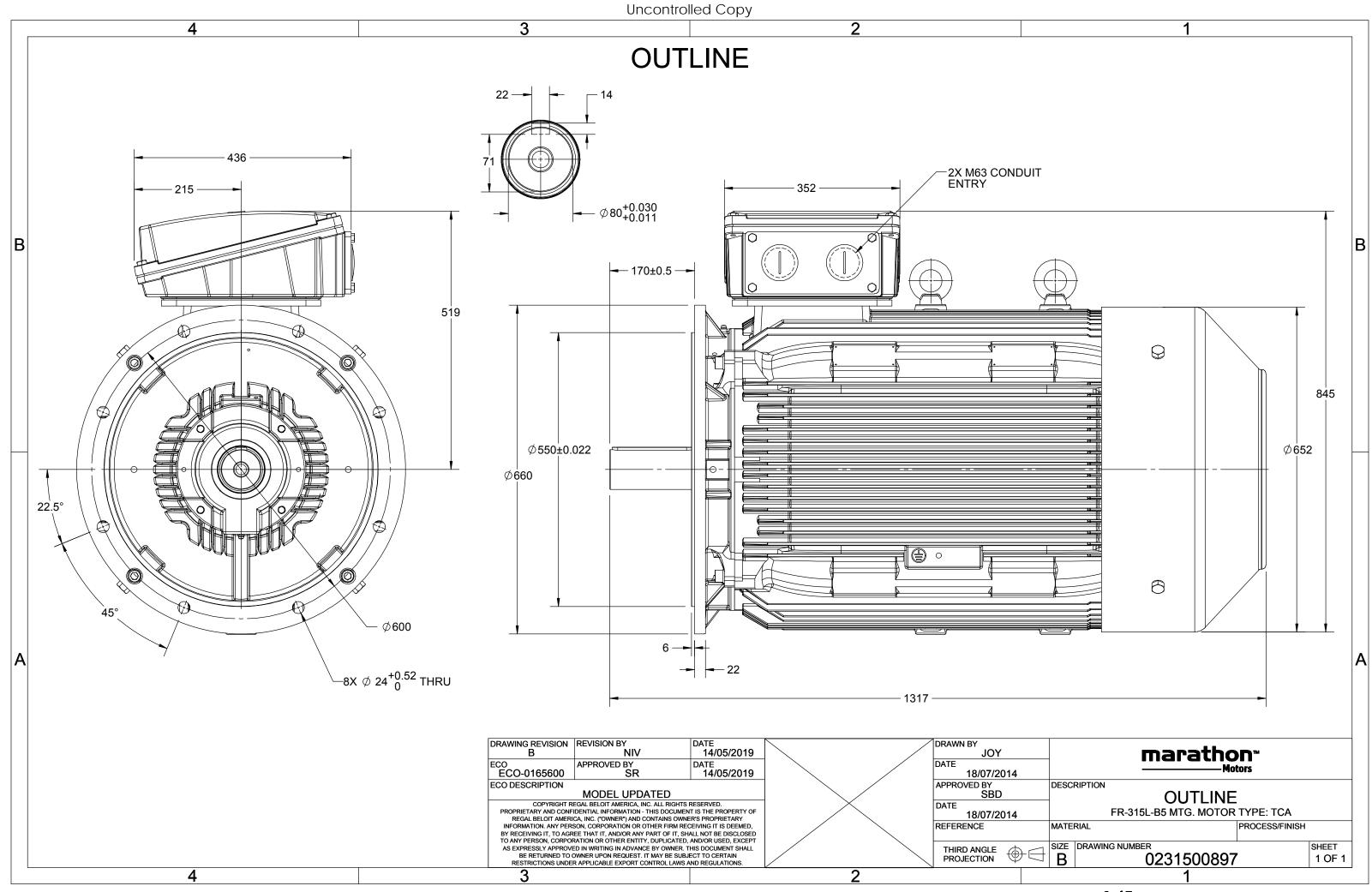
Nameplate Specifications

Output HP	150 Нр	Output KW	110.0 kW
Frequency	50 Hz	Voltage	400 V
Current	200.4 A	Speed	990 rpm
Service Factor	1	Phase	3
Efficiency	94.3 %	Power Factor	0.84
Duty	S1	Insulation Class	F
Frame	315L	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	6	Rotation	Bi-Directional
Mounting	B5	Motor Orientation	Horizontal
Drive End Bearing	СЗ	Opp Drive End Bearing	СЗ
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		
Outline Drawing	0231500897	Connection Drawing	8442000085

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Model No. SCA1103A1121GAA001

U	Δ / Y	f	Р	Р	I	n	Т	IE	9	6 EFF at	tload	ł	PF	at lo	ad	I _A /I _N	T_A/T_N	$T_{\rm K}/T_{\rm N}$
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
400	Δ	50	110	150	200.4	990	1078.99	IE2	-	94.3	94.3	95	0.84	0.8	0.72	5.4	1.8	2.2
Motor	type				SCA				Deg	ree of p	orotecti	on				IP 55		
Enclos	ure				TEFC				Mo	unting t	ype					IM B5		
Frame	Materia	I			Cast Irc	n			Соо	ling me	thod			IC 411				
Frame	size				315L				Mo	tor wei	ght - app	prox.				1003		kg
Duty					S1				Gross weight - approx.							1048		kg
Voltag	e variatio	on *			± 10%	i			Motor inertia							4.7728		kgm ²
Freque	ency varia	ation *			± 5%				Load inertia				Custo	omer to Provi	de			
Combi	ned varia	ation *			10%			Vibration level							2.8		mm/s	
Design					Ν				Nois	se level	(1mete	er distar	ance from motor) 66			66		dB(A)
Service	e factor				1.0				No.	of star	ts hot/c	old/Equ	ally spre	ead	2/3/4			
Insulat	ion class				F				Star	Starting method					DOL			
Ambie	nt tempe	erature			-20 to +	40		°C	Тур	Type of coupling					Direct			
Tempe	rature ri	se (by r	resistand	e)	80 [Class	5 B]		К	LR v	vithstar	nd time	(hot/co	ld)			30/15		S
Altitud	e above	sea lev	el		1000			meter	Dire	ection o	f rotatio	on			В	Bi-directional		
Hazaro	lous area	a classif	ication		NA				Star	ndard ro	otation				Cloc	ckwise form D	ΡE	
	Zone cla	assifica	tion		NA				Pair	nt shade	9					RAL 5014		
	Gas gro	up			NA				Acc	essorie	s							
	Temper	rature c	lass		NA					Acc	essory	- 1				PTC 150°C		
Rotor	туре			Al	uminum D	ie cast				Acc	essory	- 2				-		
Bearin	g type			A	Anti-frictio	n ball				Acc	essory	- 3				-		
DE / N	DE beari	ng		63	19 C3 / 6	319 C3			Terr	minal b	ox posit	ion				TOP		
Lubrica	ation me	thod			Regrease	ble			Max	kimum	cable siz	ze/cond	uit size	1R	x 3C x 2	240mm²/2 x N	163 x 1.5	

 I_A/I_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

Auxiliary terminal box

NOTE

Type of grease

All performance values at rated voltage and frequency.

All performance parameters are subjected to standard tolerance as per IEC 60034-1

CHEVRON SRI-2 or Equivalent

* Voltage, Frequency and combine variation are as per IEC60034-1

Technical dat	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	IEC: 60034-30	-	-	AS/NZ 1359:5:2004	-	IEC: 60034-30					

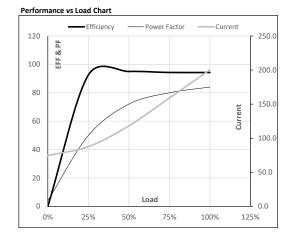
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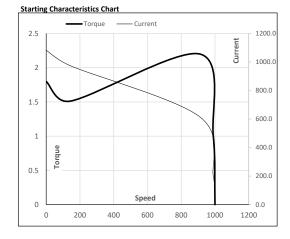
Model No. SCA1103A1121GAA001

Enclosure	U	Δ / Y	f	Р	Р	Ι	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	200.4	990	110.03	1078.99	IE2	40	S1	1000	4.7728	1003

Motor Load Data	а						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	74.6	87.6	118.1	158.9	200.4	
Torque	Nm	0.0	267.7	536.7	807.1	1079.0	
Speed	r/min	1000	998	995	993	990	
Efficiency	%	0.0	92.5	95.0	94.3	94.3	
Power Factor	%	4.0	49.9	72.0	80.0	84.0	



Motor Speed T	orque Data						
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	143	911	990	1000	
Current	А	1082.4	974.1	615.2	200.4	74.6	
Torque	pu	1.8	1.5	2.2	1	0	



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

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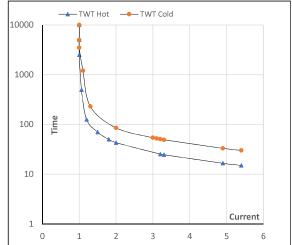
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Enclosure	U	Δ / Y	f	Р	Ρ	I.	n	т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	110	150	200.4	990	110.02	1078.99	IE2	40	S1	1000	4.7728	1003

Motor Speed Torque Data

Load		FL	I_1	l ₂	I ₃	I_4	I ₅	LR
TWT Hot	s	10000	43	30	23	20	17	15
TWT Cold	s	10000	52	51	45	40	33	30
Current	pu	1	2	3	4	4.5	5	5.4

Thermal Characteristics Chart



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

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