PRODUCT INFORMATION PACKET

Model No: SCA1323A1121GAA001 Catalog No: SCA1323A1121GAA001 TerraMAX® Cast Iron Motor, 175 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 315L Frame, TEFC



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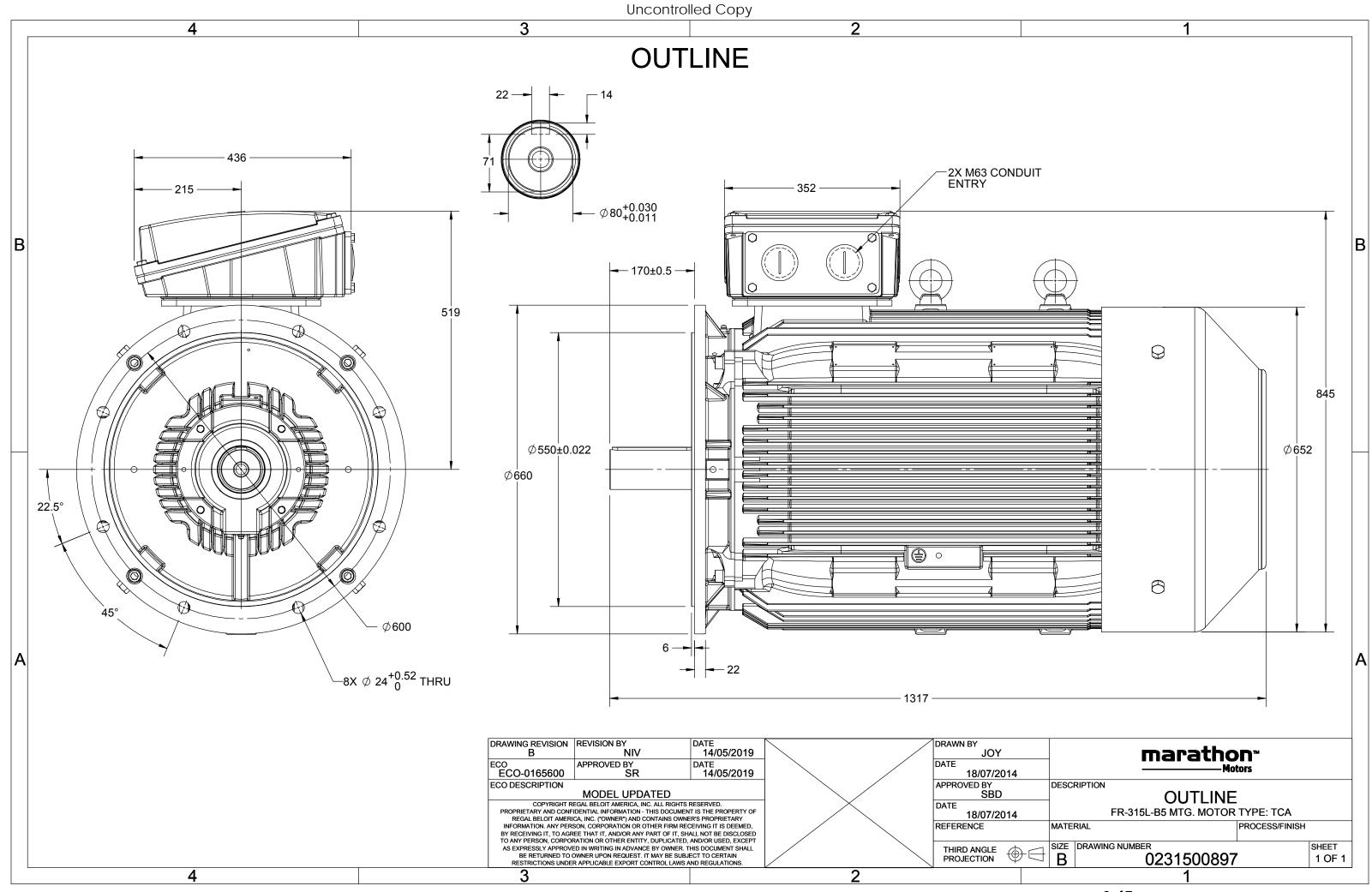
Nameplate Specifications

Output HP	175 Hp	Output KW	132.0 kW
Frequency	50 Hz	Voltage	400 V
Current	239.8 A	Speed	990 rpm
Service Factor	1	Phase	3
Efficiency	94.6 %	Power Factor	0.84
Duty	S1	Insulation Class	F
Frame	315L	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	Νο	CSA	No
	110	08/1	
CE	Yes	IP Code	55

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	Rotation	Bi-Directional
Mounting	B5	Motor Orientation	Horizontal
Drive End Bearing	C3	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		
Connection Drawing	8442000085	Outline Drawing	0231500897

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U	Δ / Y	f	Р	Р	I	n	Т	IE	9	6 EFF at	t load	ł	PF	at_lo	bad	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]
400	Δ	50	132	175	239.8	990	1258.66	IE2	-	94.6	94.6	95.2	0.84	0.81	0.73	5.5	1.9	2.2
Motor t	ype				SCA				Deg	ree of p	protecti	on				IP 55		
Enclosu	re				TEFC				Mo	unting t	ype					IM B5		
Frame N	/laterial	I			Cast Irc	n			Coo	ling me	thod					IC 411		
Frame s	ize				315L			Motor weight - approx.						1071		kg		
Duty					S1			Gross weight - approx.						1116		kg		
Voltage	variatio	on *			± 10%			Motor inertia					5.4662		kgm ²			
Frequen	ncy varia	ation *			± 5%				Loa	d inerti	а				Custo	omer to Pro	vide	
Combine	ed varia	ation *			10%				Vibr	ration le	evel					2.8		mm/s
Design					Ν				Nois	se level	(1mete	er distar	nce fron	n motor)	66		dB(A)
Service	factor				1.0				No.	of star	ts hot/c	old/Equ	ally spr	ead		2/3/4		
Insulatio	on class				F				Star	ting me	ethod					DOL		
Ambient	t tempe	erature			-20 to +	40		°C	Тур	e of cou	upling					Direct		
Tempera	ature ri	se (by r	esistanc	ce)	80 [Class	B]		К	LR v	vithstar	nd time	(hot/co	ld)			30/15		s
Altitude	above	sea lev	el		1000			meter	Dire	ection o	f rotatio	on			В	i-directiona	l I	
Hazardo	ous area	a classif	ication		NA				Star	ndard ro	otation				Cloc	kwise form	DE	
2	Zone cla	assifica	tion		NA				Pair	nt shade	2					RAL 5014		
(Gas gro	up			NA				Acc	essorie	s							
-	Temper	rature c	lass		NA					Acc	essory -	- 1				PTC 150°C		

Temperature class	NA	Accessory - 1	PTC 150°C
Rotor type	Aluminum Die cast	Accessory - 2	-
Bearing type	Anti-friction ball	Accessory - 3	-
DE / NDE bearing	6319 C3 / 6319 C3	Terminal box position	ТОР
Lubrication method	Regreasable	Maximum cable size/conduit size	1R x 3C x 240mm²/2 x M63 x 1.5
Type of grease C	HEVRON SRI-2 or Equivalent	Auxiliary terminal box	Available on Request

 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

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	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					

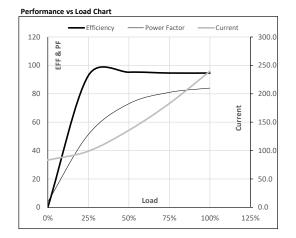
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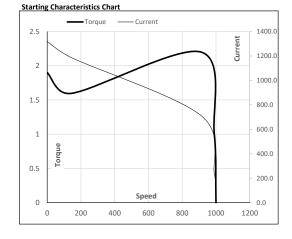
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	132	175	239.8	990	128.35	1258.66	IE2	40	S1	1000	5.4662	1071

Motor Load Data	а						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	83.2	98.9	135.7	182.9	239.8	
Torque	Nm	0.0	312.3	626.1	941.5	1258.7	
Speed	r/min	1000	998	995	993	990	
Efficiency	%	0.0	92.8	95.2	94.6	94.6	
Power Factor	%	3.9	51.3	73.0	81.0	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	1318.7	1186.8	713.4	239.8	83.2	
Torque	pu	1.9	1.6	2.2	1	0	



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

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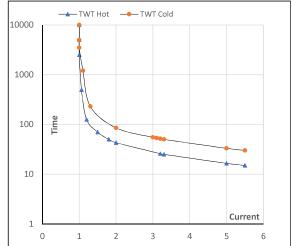
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Enclosure	U	Δ / Y	f	Р	Ρ	I.	n	т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	132	175	239.8	990	128.35	1258.66	IE2	40	S1	1000	5.4662	1071

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	l ₅	LR
TWT Hot	s	10000	43	30	23	20	17	15
TWT Cold	s	10000	54	52	45	40	33	30
Current	pu	1	2	3	4	4.5	5	5.5

Thermal Characteristics Chart



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

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