PRODUCT INFORMATION PACKET

Model No: SCA1601A3133GAAD01 Catalog No: SCA1601A3133GAAD01 TerraMAX® Cast Iron Motor, 215 HP, 3 Ph, 50 Hz, 415 V, 3000 RPM, 315L Frame, TEFC



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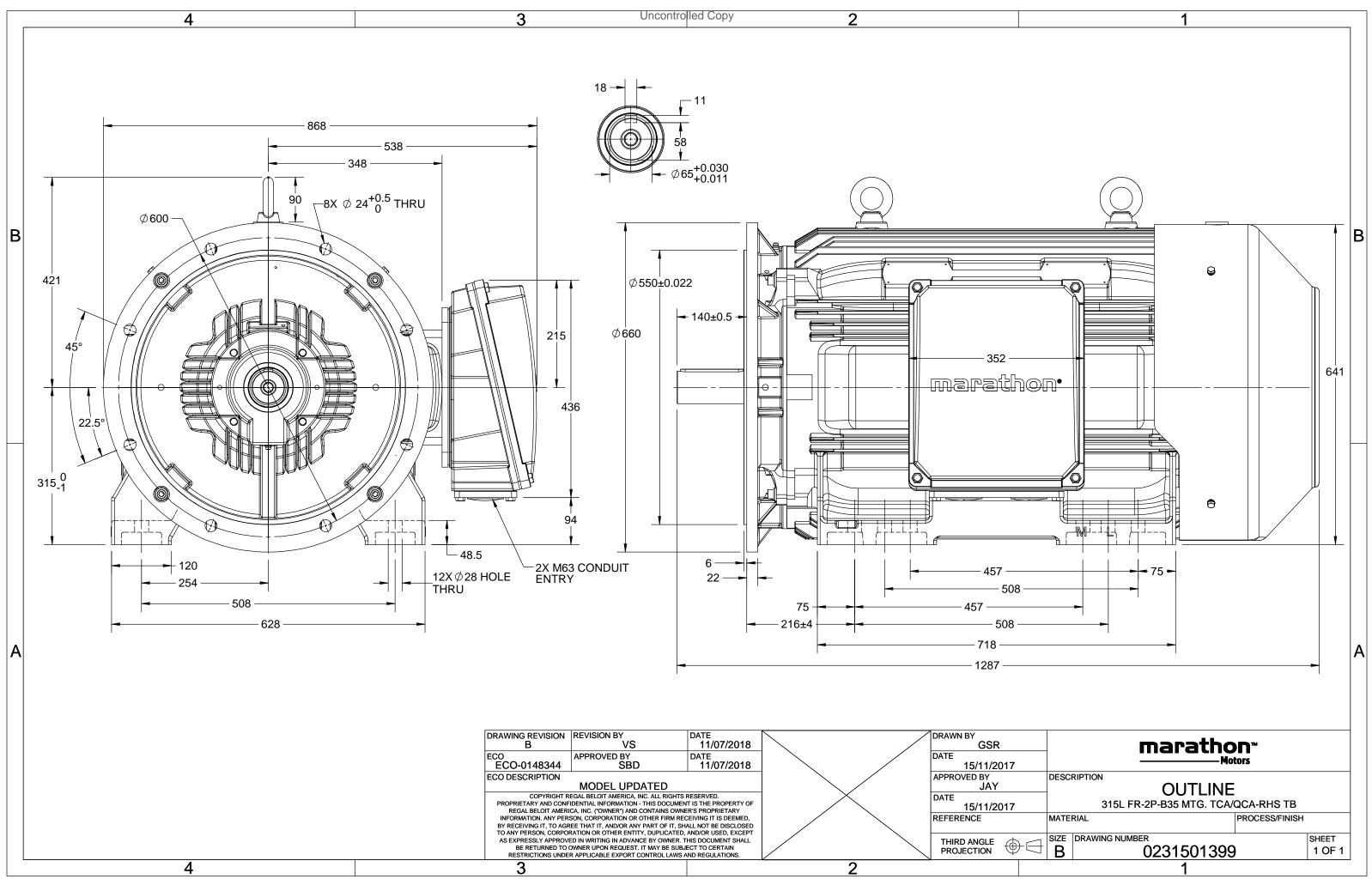
Nameplate Specifications

Output HP	215 Hp	Output KW	160.0 kW
Frequency	50 Hz	Voltage	415 V
Current	257.5 A	Speed	2981 rpm
Service Factor	1	Phase	3
Efficiency	94.8 %	Power Factor	0.91
Duty	S1	Insulation Class	F
Frame	315L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	50 °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	B35	Motor Orientation	Horizontal
Drive End Bearing	СЗ	Opp Drive End Bearing	С3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1287 mm	Frame Length	840 mm
Shaft Diameter	65 mm	Shaft Extension	140 mm
Assembly/Box Mounting	SIDE		
Outline Drawing	0231501399	Connection Drawing	8442000085

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U	Δ / Y	f	Р	Р	I	n	Т	IE	9	% EFF a	t load	4	PF	at lo	bad	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]
415	Δ	50	160	215	258.0	2981	513.67	IE2	-	94.8	94.8	93.8	0.91	0.89	0.84	6.0	1.9	3.0
					SCA											IP 55		
Motor					TEFC						protecti	on				IP 55		
Enclos	ure Material				Cast Irc					unting						IC 411		
Frame					315L	,,,,				oling me	ght - ap	nrov				1127		ka
Duty	SIZE				S1						ght - app ht - app					1172		kg kg
	e variatio	vn *			± 10%					tor iner		IUX.				2.5678		kgm ²
	e variatio				± 5%	·				d inerti					Custo	omer to Prov	ide	Kgill
	ned varia				10%					ration l					cust	2.8	iuc	mm/s
Design					N							er distar	nce fron	motor)	83		dB(A)
	factor				1.0							old/Equ			/	2/3/4		ub(//)
	ion class				F					rting m		0.0, 290	any opi			DOL		
Ambier	nt tempe	erature			-20 to +	50		°C		e of co						Direct		
	rature ri		esistanc	e)	70 [Class	B]		К				(hot/co	ld)			18/36		s
	e above			,	1000			meter			of rotatio	• •	,		В	i-directional		
Hazard	lous area	classif	ication		NA				Sta	ndard r	otation				Cloc	ckwise form [DE	
	Zone cla	assificat	tion		NA				Pair	nt shad	e					RAL 5014		
	Gas gro	up			NA				Acc	essorie	s							
	Temper	ature c	lass		NA					Acc	cessory	- 1				-		
Rotor t	ype			Alı	uminum D	ie cast				Acc	cessory	- 2				-		
Bearing	g type			A	nti-frictio	n ball				Aco	cessory	- 3				-		
DE / NI	DE bearir	ng		63	16 C3 / 6	316 C3			Ter	minal b	ox posit	ion				RHS		
Lubrica	ation met	thod			Regrease	ble			Ma	ximum	cable si	ze/cond	uit size	1R	x 3C x 2	40mm²/2 x N	/163 x 1.5	
Type o	f grease		Sh	ell Gadu	us S5 V100) or Equiv	alent		Aux	kiliary te	erminal	box			Avail	able on Requ	est	

 $I_{\text{A}}/I_{\text{N}}$ - Locked Rotor Current / Rated Current $T_{\text{A}}/T_{\text{N}}$ - 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 combined variation are as per IEC60034-1

Technical da	ta are subject t	o change. There may be discrepa	ncies between calculated an	id name plate values.		
Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	-	-	IS 12615 : 2018	-	-	-

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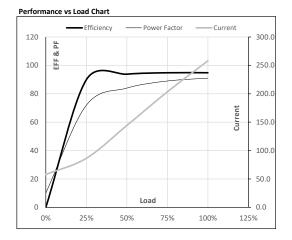


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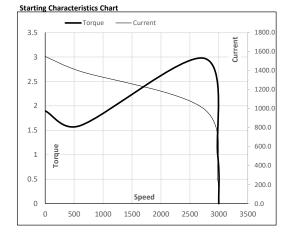
Enclosure	U (V)	Δ / Y Conn	f [Hz]	P [kW]	P [hp]	۱ [A]	n [RPM]	T [kgm]	T [Nm]	IE Class	Amb [°C]	Duty	Elevation [m]	Inertia [kg-m ²]	Weight [kg]
TEFC	415	Δ	50	160	215	258.0	2981	52.38	513.67	IE2	50	\$1	1000	2.5678	1127

Motor	Load	Data	

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	57.9	86.3	144.2	203.4	258.0	
Torque	Nm	0.0	127.8	256.0	384.6	513.7	
Speed	r/min	3000	2995	2991	2986	2981	
Efficiency	%	0.0	89.9	93.8	94.8	94.8	
Power Factor	%	10.1	71.9	84.0	89.0	91.0	



Motor Speed T	orque Data						
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	600	2743	2981	3000	
Current	А	1548.1	1393.3	997.0	258.0	57.9	
Torque	pu	1.9	1.6	3.0	1	0	



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

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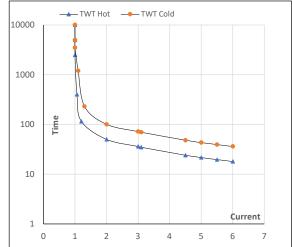
Model No. SCA1601A3123GAAD01

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	415	Δ	50	160	215	258.0	2981	52.38	513.67	IE2	50	S1	1000	2.5678	1127

Motor Speed Torque Data

Load		FL	I_1	I ₂	I ₃	I_4	I ₅	LR
TWT Hot	s	10000	50	36	30	22	20	18
TWT Cold	S	10000	100	72	60	43	39	36
Current	pu	1	2	3	4	5	5.5	6

Thermal Characteristics Chart



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

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