PRODUCT INFORMATION PACKET

Model No: SCA1103A4141GAA001 Catalog No: SCA1103A4141GAA001 TerraMAX® Cast Iron Motor, 150 HP, 3 Ph, 50 Hz, 380/660 V, 1000 RPM, 315L Frame, TEFC



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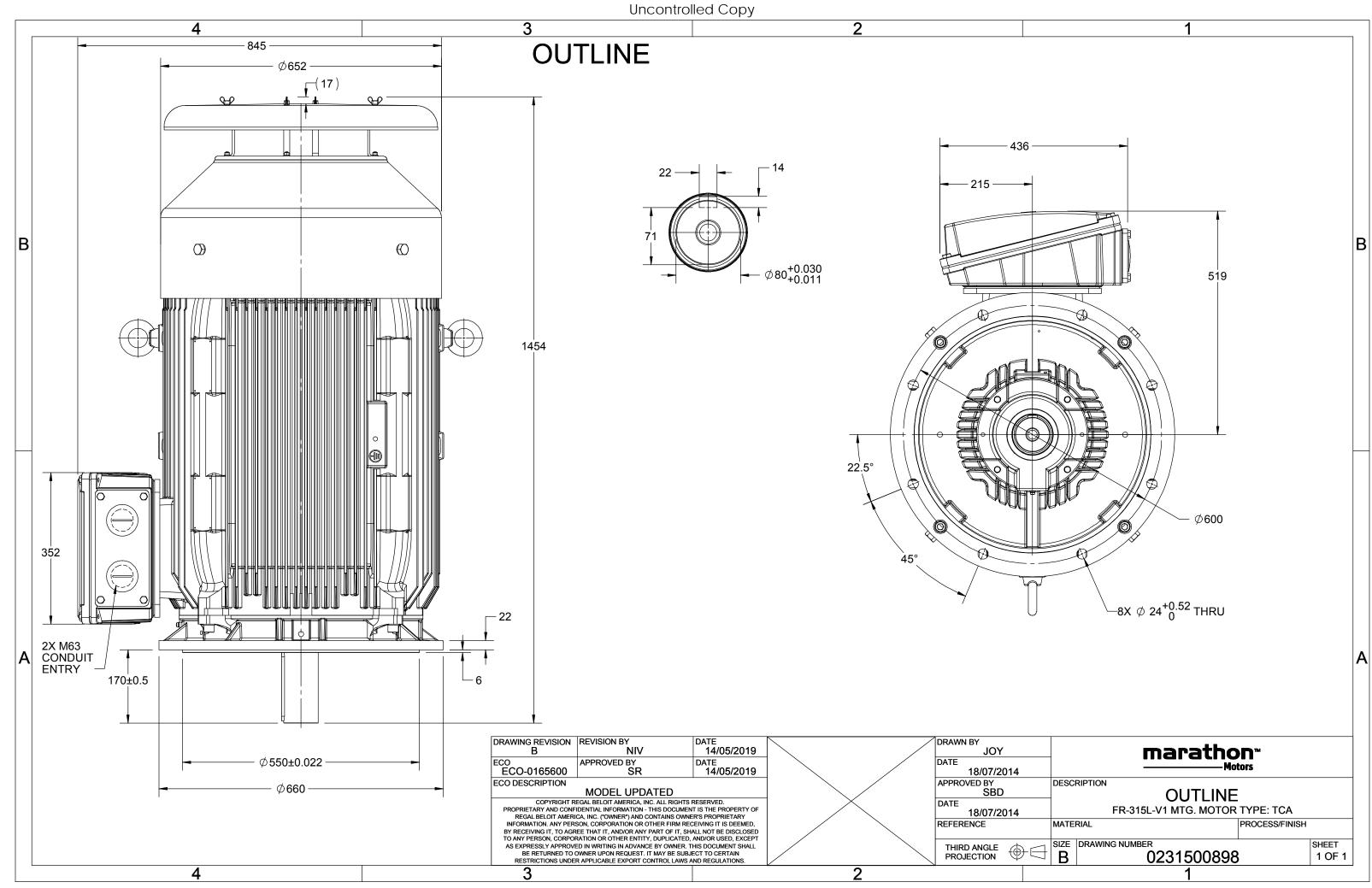
Nameplate Specifications

Output HP	150 Нр	Output KW	110.0 kW		
Frequency	50 Hz	Voltage	380/660 V		
Current	211.0 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		
i iailie	515L	LICIOSUIE	Totally Enclosed Fall Cooled		
Thermal Protection	No Protection	Ambient Temperature	40 °C		
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		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	Rotation	Bi-Directional
Mounting	V1	Motor Orientation	Shaftdown
Drive End Bearing	C3	Opp Drive End Bearing	C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1453 mm	Frame Length	840 mm
Shaft Diameter	80 mm	Shaft Extension	170 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0231500898

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$U \Delta / Y f$	P P		n	Т	IE	%	EFF at	load	1	PF	at lo	bad	I _A /I _N	T_A/T_N	$T_{\rm K}/T_{\rm N}$
(V) Conn [Hz] [kW] [h	p] [A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
380/660 Δ 50	110 15	50 211.0	990	1079	IE2	-	94.3	94.3	95	0.84	0.8	0.72	5.4	1.8	2.2
Motor type		SCA				Degr	ee of p	rotecti	on				IP 55		
Enclosure	e TEFC				Mou	inting t	ype					IM V1			
Frame Material	Cast Iron					Cool	Cooling method						IC 411		
Frame size		315L	315L Motor weight - approx.						orox.				1008		kg
Duty		S1				Gross weight - approx.								kg	
Voltage variation *		± 10%				Motor inertia					4.7728			kgm ²	
Frequency variation *		± 5%				Load inertia				Custo	omer to Pro	vide			
Combined variation *	variation * 10%					Vibra	Vibration level						2.8		mm/s
Design		Ν				Nois	Noise level (1meter distance from motor)) 66			dB(A)
Service factor		1.0				No. d	No. of starts hot/cold/Equally spread					2/3/4			
Insulation class		F				Start	Starting method					DOL			
Ambient temperature		-20 to +4	40		°C	Туре	of cou	pling				Direct			
Temperature rise (by resis	stance)	80 [Class	B]		K	LR w	ithstan	d time	(hot/co	ld)			30/15		S
Altitude above sea level		1000			meter	Direc	ction of	f rotatio	on			В	i-directiona	I	
Hazardous area classificat	ion	NA				Stan	dard ro	tation				Cloc	kwise form	DE	
Zone classificat	ion	NA				Paint	t shade	2					RAL 5014		
Gas group		NA				Acce	ssories								
Temperature c	lass	NA					Acce	essory -	1				-		
Rotor type		Aluminum D	ie cast				Accessory - 2						-		
Bearing type		Anti-friction	n ball				Acce	essory -	3				-		
DE / NDE bearing		6319 C3 / 63	319 C3			Term	Terminal box position						ТОР		
Lubrication method		Regreasa	ble			Max	imum c	able siz	e/cond	uit size	1R	R x 3C x 240mm²/2 x M63 x 1.5			
Type of grease	CHE	VRON SRI-2 o	r Equival	ent		Auxi	liary te	rminal l	хос			Avail	able on Req	uest	

 I_A/I_N - Locked Rotor Current / Rated Current

 $T_{\rm K}/T_{\rm N}$ - 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 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



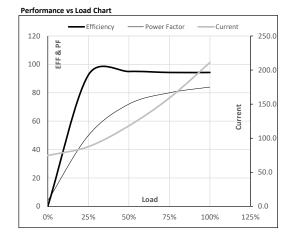
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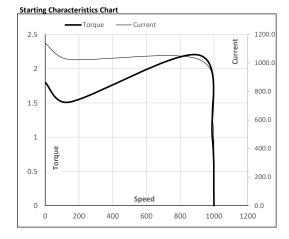
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Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380/660	Δ	50	110	150	211.0	990	110.03	1078.99	IE2	40	S1	1000	4.7728	1008

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	211.0	
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 Torque Data													
Load Point		LR	P-Up	BD	Rated	NL							
Speed	r/min	0	143	911	990	1000							
Current	А	1139.3	1025.4	615.2	211.0	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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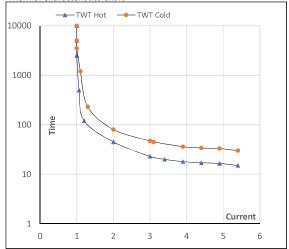
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Enclosure	U	Δ / Y	f	Р	Ρ	I.	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380/66	Δ	50	110	150	211.0	990	110.02	1078.99	IE2	40	S1	1000	4.7728	1008

Motor Speed Torque Data

Load		FL	I_1	I_2	I_3	I_4	I_5	LR
TWT Hot	s	10000	45	23	18	17	16	15
TWT Cold	s	10000	80	47	36	34	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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