PRODUCT INFORMATION PACKET

Model No: SCA0753A4111GAA001 Catalog No: SCA0753A4111GAA001 TerraMAX® Cast Iron Motor, 100 HP, 3 Ph, 50 Hz, 380/660 V, 1000 RPM, 315S Frame, TEFC



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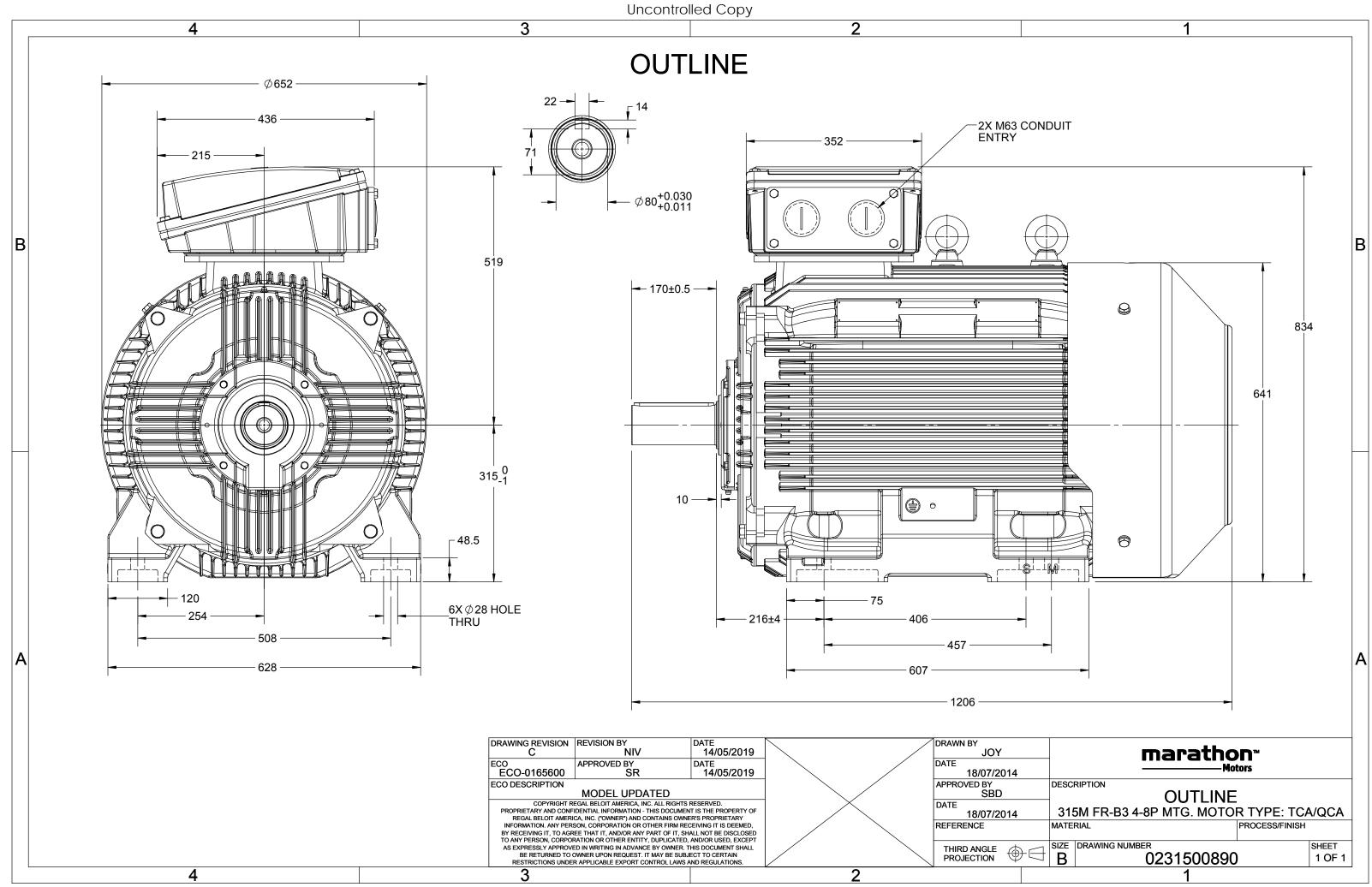
Nameplate Specifications

Output HP	100 Hp	Output KW	75.0 kW
Frequency	50 Hz	Voltage	380/660 V
Current	146.5 A	Speed	989 rpm
Service Factor	1	Phase	3
Efficiency	93.7 %	Power Factor	0.83
Duty	S1	Insulation Class	F
Frame	315S	Enclosure	Totally England Fon Cooled
Tranie	3133	Eliciosule	Totally Enclosed Fan 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	B3	Motor Orientation	Horizontal
Drive End Bearing	Сз	Opp Drive End Bearing	С3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1206 mm	Frame Length	729 mm
Shaft Diameter	80 mm	Shaft Extension	170 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0231500890	Connection Drawing	8442000085

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																	- /-	- (-
U	Δ / Y	f	Р	Р	I	n	Т	IE			t load			at lo		I _A /I _N	T_A/T_N	
(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL		FL	-	1/2FL	[pu]	[pu]	[pu]
380/660	Δ	50	75	100	146.5	989	719.95	IE2	-	93.7	93.7	94.4	0.83	0.79	0.7	5.1	1.6	2.2
Motor typ	ie.				SCA				Deg	ree of	orotecti	n				IP 55		
Enclosure					TEFC					unting		011				IM B3		
Frame Ma					Cast Iro					Cooling method						IC 411		
Frame size					3155				Motor weight - approx.							kg		
Duty					S1					Gross weight - approx.						867		
Voltage va	ariation	*			± 10%					Motor inertia						3.3734		kg kgm ²
Frequency					± 5%				Loa	Load inertia				Cust	omer to Pro	vide	Ū	
Combined					10%				Vib	Vibration level					2.8		mm/s	
Design					Ν				Noi	se level	(1mete	er distan	ce fron	n motor)	66		
Service fa	ctor				1.0				No.	of star	ts hot/c	old/Equ	ally spre	ead	2/3/4			
Insulation	class				F				Star	rting m	ethod					DOL		
Ambient t	empera	ture			-20 to +	40		°C	Тур	e of co	upling					Direct		
Temperat	ure rise	(by res	istance)		80 [Class	5 B]		К	LR v	withsta	nd time	(hot/col	d)			15/30		S
Altitude a	bove sea	a level			1000			meter	Dire	ection c	of rotatio	on			В	i-directiona	I	
Hazardou	s area cl	lassifica	tion		NA				Star	ndard r	otation				Cloc	ckwise form	DE	
	Zone o	classific	ation		NA				Pair	nt shad	е					RAL 5014		
	Gas gr	oup			NA				Acc	essorie	s							
	Tempe	erature	class		NA					Acc	essory -	1				-		
Rotor type	е			Alı	uminum D	ie cast				Acc	essory ·	2				-		
Bearing ty	pe			A	nti-frictio	n ball				Acc	essory -	3				-		
DE / NDE	bearing			63	19 C3 / 6	319 C3			Ter	minal b	ox posit	ion				TOP		
Lubricatio	n metho	bd			Regrease	ble			Ma	ximum	cable siz	e/cond	uit size	1R	x 3C x 2	40mm²/2 x	M63 x 1.5	

 $I_{\rm A}/I_{\rm N}$ - 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 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				



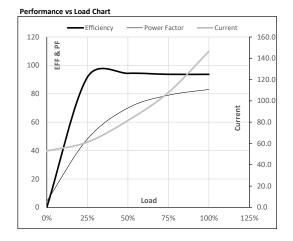
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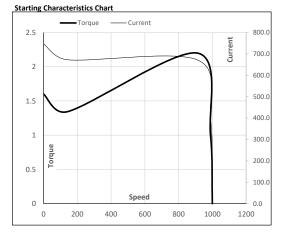
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Enclosure	U	Δ / Y	f	Р	Р	I	n	т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380/660	Δ	50	75	100	146.5	989	73.41	719.95	IE2	40	S1	1000	3.3734	822

Motor Load Dat	ta						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	52.9	61.2	81.5	107.9	146.5	
Torque	Nm	0.0	178.5	358.0	538.4	720.0	
Speed	r/min	1000	998	995	992	989	
Efficiency	%	0.0	91.6	94.4	93.7	93.7	
Power Factor	%	4.3	48.1	70.0	79.0	83.0	



Motor Speed Torque Data												
Load Point		LR	P-Up	BD	Rated	NL						
Speed	r/min	0	143	910	989	1000						
Current	А	747.2	672.5	396.1	146.5	52.9						
Torque	pu	1.6	1.3	2.2	1	0						



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

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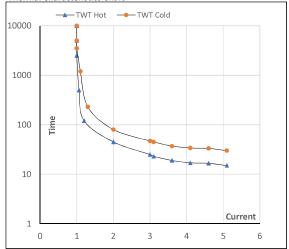
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				Р	1	n	ſ	Т	IE	Amb	Duty	Elevation	Inertia	Weight
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC 380/6	60 Δ	50	75	100	146.5	989	73.41	719.95	IE2	40	S1	1000	3.3734	822

Motor Speed Torque Data

Load		FL	I_1	I_2	I_3	I_4	I_5	LR
TWT Hot	s	10000	45	25	18	17	16	15
TWT Cold	s	10000	80	47	36	33	32	30
Current	pu	1	2	3	4	4.5	5	5.1

Thermal Characteristics Chart



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

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