PRODUCT INFORMATION PACKET

Model No: SCA0304A4141GAA001 Catalog No: SCA0304A4141GAA001 TerraMAX® Cast Iron Motor, 40 HP, 3 Ph, 50 Hz, 380/660 V, 750 RPM, 250M Frame, TEFC



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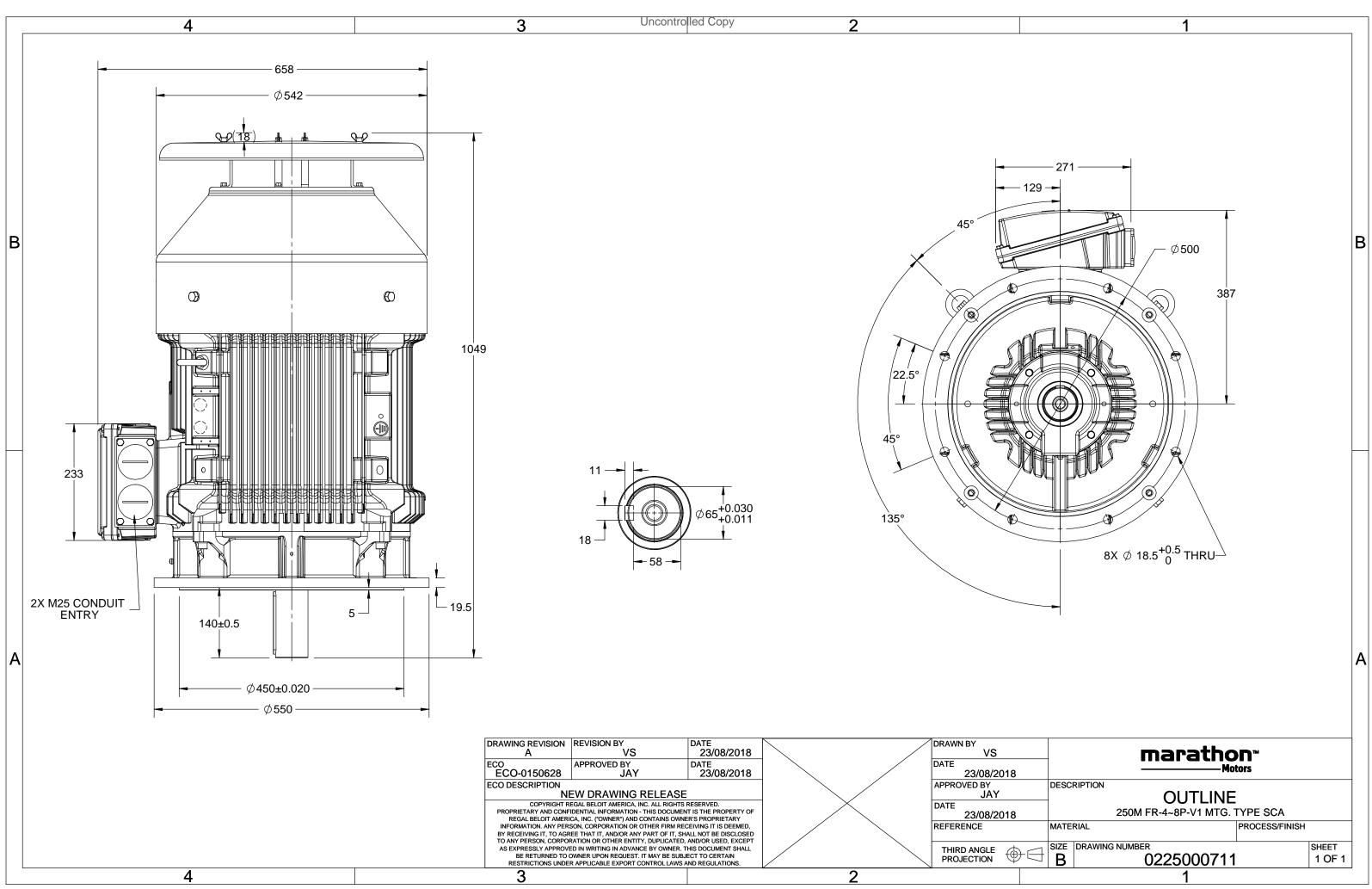
Nameplate Specifications

Output HP	40 Hp	Output KW	30.0 kW
Frequency	50 Hz	Voltage	380/660 V
Current	65.9 A	Speed	738 rpm
Service Factor	1	Phase	3
Efficiency	89.8 %	Power Factor	0.77
Duty	S1	Insulation Class	F
Frame	250M	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	250M No Protection	Enclosure Ambient Temperature	Totally Enclosed Fan Cooled 40 °C
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection Drive End Bearing Size	No Protection 6314	Ambient Temperature Opp Drive End Bearing Size	40 °C 6314

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	8	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	1049 mm	Frame Length	460 mm
Shaft Diameter	65 mm	Shaft Extension	140 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0225000711

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TerraMAX[®]

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$U \Delta / Y f$	P P	I	n	Т	IE	%	6 EFF at	load	ł	PF at load		bad	I _A /I _N	T_A/T_N	$T_{\rm K}/T_{\rm N}$
(V) Conn [Hz] [l	kW] [hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
380/660 Δ 50	30 40	65.9	738	385.92	IE2	-	89.8	89.8	90.8	0.77	0.71	0.58	5.3	1.9	2.3
Motor type		SCA				Deg	ree of p	orotecti	on				IP 55		
Enclosure	TEFC Mounting type				уре					IM V1					
Frame Material		Cast Irc	on			Cool	ling me	thod				IC 411			
Frame size		250N	l			Mot	or weig	ght - ap	prox.				553		
Duty		S1				Gross weight - approx.					588				
Voltage variation *		± 10%	ò			Motor inertia					2.1617		kgm ²		
Frequency variation *		± 5%				Load inertia			Customer to Provide		le				
Combined variation *		10%				Vibration level					2.2		mm/s		
Design		Ν			Nois	Noise level (1meter distance from motor)				r) 64			dB(A)		
Service factor		1.0				No. of starts hot/cold/Equally spread		2/3/4							
Insulation class		F							DOL						
Ambient temperature		-20 to +	40		°C	Туре	e of cou	pling			Direct				
Temperature rise (by resis	tance)	80 [Class	5 B]		К	LR w	vithstar	nd time	(hot/co	ld)	20/10				S
Altitude above sea level		1000			meter	er Direction of rotation Bi-direction		i-directional							
Hazardous area classificati	ion	NA Standard rotation Clo		Cloc	Clockwise form DE										
Zone classificati	ion	NA				Paint shade RAL 502		RAL 5014							
Gas group		NA				Accessories									
Temperature cl	ass	NA			Accessory - 1				-						
Rotor type	Aluminum Die cast			Accessory - 2			-								
Bearing type		Anti-frictio	n ball				Accessory - 3			-					
DE / NDE bearing		6314 C3/ 63	314 C3			Terminal box			•			ТОР			
Lubrication method		Re-grease	-able							luit size	1R	x 3C x 9	5mm²/2 x M50 x 1.5		
Type of grease	CHEV	RON SRI-2 o		lent		Auxiliary terminal box Available on Reque			able on Reque	st					
													-		

 $I_{\rm A}/I_{\rm N}$ - Locked Rotor Current / Rated Current $T_{\rm A}/T_{\rm N}$ - Locked Rotor Torque / Rated Torque

 T_{K}/T_{N} - Breakdown Torque / Rated Torque

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

