PRODUCT INFORMATION PACKET

Model No: SCA0551A4141GAA001 Catalog No: SCA0551A4141GAA001 TerraMAX® Cast Iron Motor, 75 HP, 3 Ph, 50 Hz, 380/660 V, 3000 RPM, 250M Frame, TEFC



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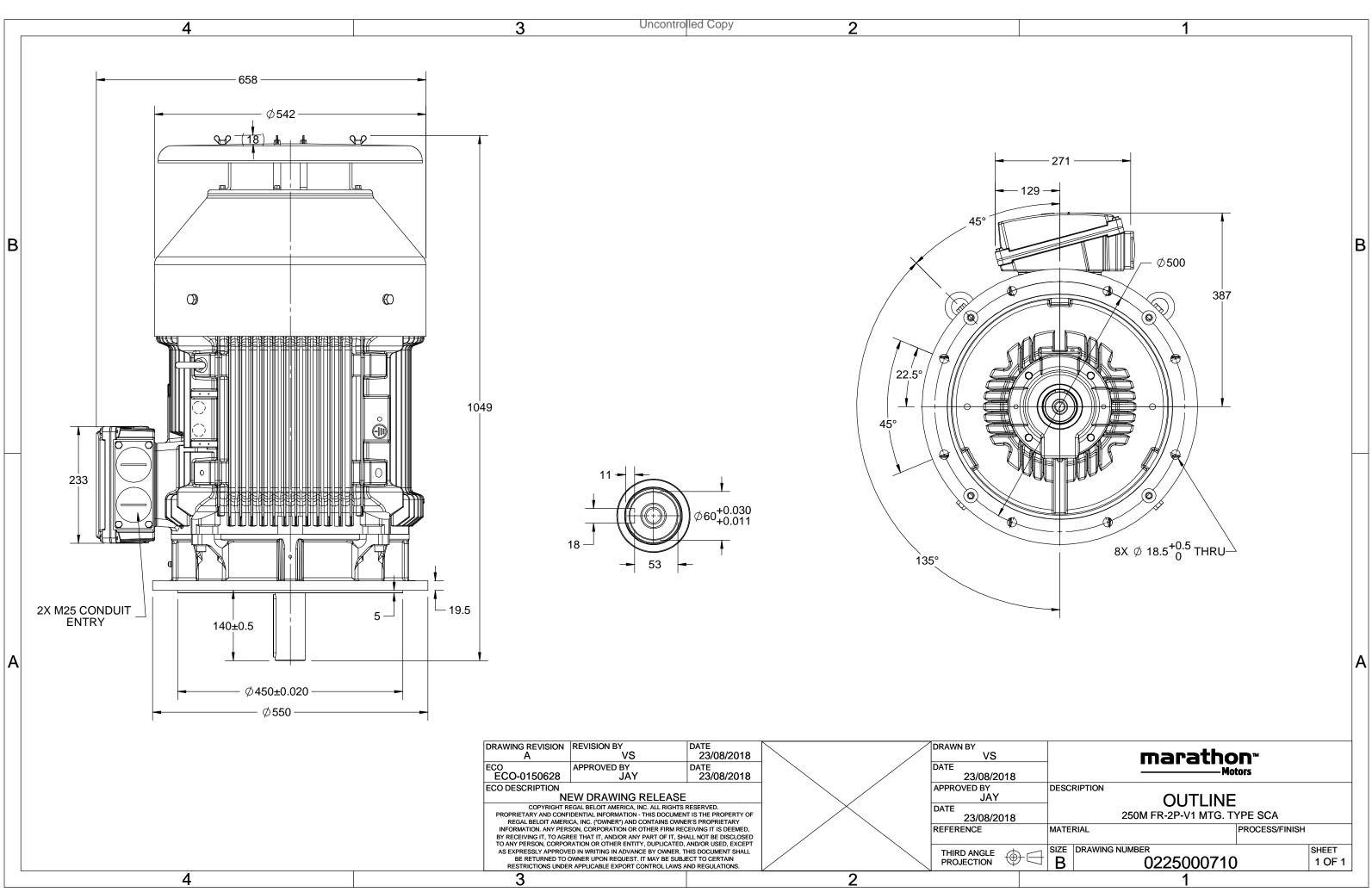
Nameplate Specifications

Output HP	75 Hp	Output KW	55.0 kW
Frequency	50 Hz	Voltage	380/660 V
Current	100.8 A	Speed	2973 rpm
Service Factor	1	Phase	3
Efficiency	93.2 %	Power Factor	0.89
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	2	Rotation	Bi-Directional
Mounting	V1	Motor Orientation	Shaftdown
Drive End Bearing	СЗ	Opp Drive End Bearing	СЗ
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1049 mm	Frame Length	460 mm
Shaft Diameter	60 mm	Shaft Extension	140 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0225000710	Connection Drawing	8442000085

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$U = \Delta / Y = f$	P P) I	n	Т	IE	%	EFF at	load	ł	PF	at lo	bad	I _A /I _N	T_A/T_N	T_{κ}/T_{N}
(V) Conn [Hz] [l	kW] [h	p] [A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
380/660 ∆ 50	55 7	5 100.7	2973	179.63	IE2	-	93.2	93.2	92.8	0.89	0.86	0.79	6.7	1.9	3.2
Motor type		SCA				Dog	roo of p	rotocti	on				IP 55		
Enclosure		TEFC				Degree of protection Mounting type					IM V1				
Frame Material		Cast Irc				Cooling method IC 411									
		250M											l a		
Frame size		2301vi S1				Motor weight - approx.									kg
Duty		51 ± 10%				Gross weight - approx. Motor inertia						513 0.4602			kg
Voltage variation *)									Cust			kgm ²
Frequency variation *		± 5%				Load inertia				Custo	omer to Provi	lde	,		
Combined variation *		10%				Vibration level Noise level (1meter distance from moto						2.2		mm/s	
Design		N						•							dB(A)
Service factor		1.0							old/Equ	ally spr	ead		2/3/4		
Insulation class		F					ting me						DOL		
Ambient temperature		-20 to +			°C		e of cou						Direct		
Temperature rise (by resis	stance)	80 [Class	5 B]		K	LR w	vithstan	d time	(hot/co	ld)			30/15		S
Altitude above sea level		1000			meter	Dire	ction of	rotatio	on				i-directional		
Hazardous area classificati	ion	NA				Stan	dard ro	tation				Cloc	ckwise form D	DE	
Zone classificati	ion	NA				Pain	t shade	•					RAL 5014		
Gas group		NA				Acce	essories								
Temperature cl	ass	NA					Acce	essory -	1				-		
Rotor type		Aluminum D	ie cast				Acce	essory -	2				-		
Bearing type		Anti-frictio	n ball				Acce	essory -	3				-		
DE / NDE bearing		6314 C3 / 6	314 C3			Tern	ninal bo	ox posit	ion				ТОР		
Lubrication method		Regreasa	ble			Max	imum c	able siz	ze/cond	uit size	1R	x 3C x 9	95mm²/2 x M	50 x 1.5	
Type of grease	CHE	VRON SRI-2 o	r Equival	ent		Auxi	liary tei	rminal l	box			Avail	able on Requ	est	

 I_A/I_N - Locked Rotor Current / Rated Current

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

 T_A/T_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



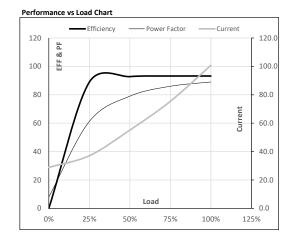
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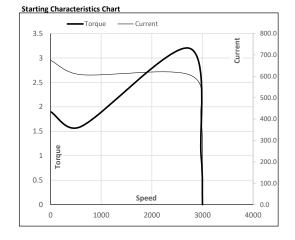
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380/660	Δ	50	55	75	100.7	2973	18.32	179.63	IE2	40	S1	1000	0.4602	478

Motor Load Data	а						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	28.8	37.1	55.1	75.4	100.7	
Torque	Nm	0.0	44.6	89.4	134.4	179.6	
Speed	r/min	3000	2993	2987	2980	2973	
Efficiency	%	0.0	88.9	92.8	93.2	93.2	
Power Factor	%	8.0	61.2	79.0	86.0	89.0	



Motor Speed Torque Data												
Load Point		LR	P-Up	BD	Rated	NL						
Speed	r/min	0	600	2735	2973	3000						
Current	А	675.0	607.5	394.9	100.7	28.8						
Torque	pu	1.9	1.6	3.2	1	0						



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

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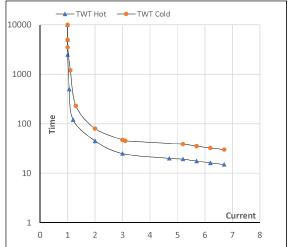
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			P	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC 380,	660 Δ	50	55	75	100.7	2973	18.32	179.63	IE2	40	S1	1000	0.4602	478

Motor Speed Torque Data

Load		FL	I_1	I_2	l ₃	I_4	ا5	LR
TWT Hot	s	10000	45	25	23	20	18	15
TWT Cold	s	10000	80	47	46	39	36	30
Current	pu	1	2	3	4	5	5.5	6.7

Thermal Characteristics Chart



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

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