PRODUCT INFORMATION PACKET

Model No: SCA18P4A3111GAAD01 Catalog No: SCA18P4A3111GAAD01 TerraMAX® Cast Iron Motor, 25 HP, 3 Ph, 50 Hz, 415 V, 750 RPM, 225S Frame, TEFC



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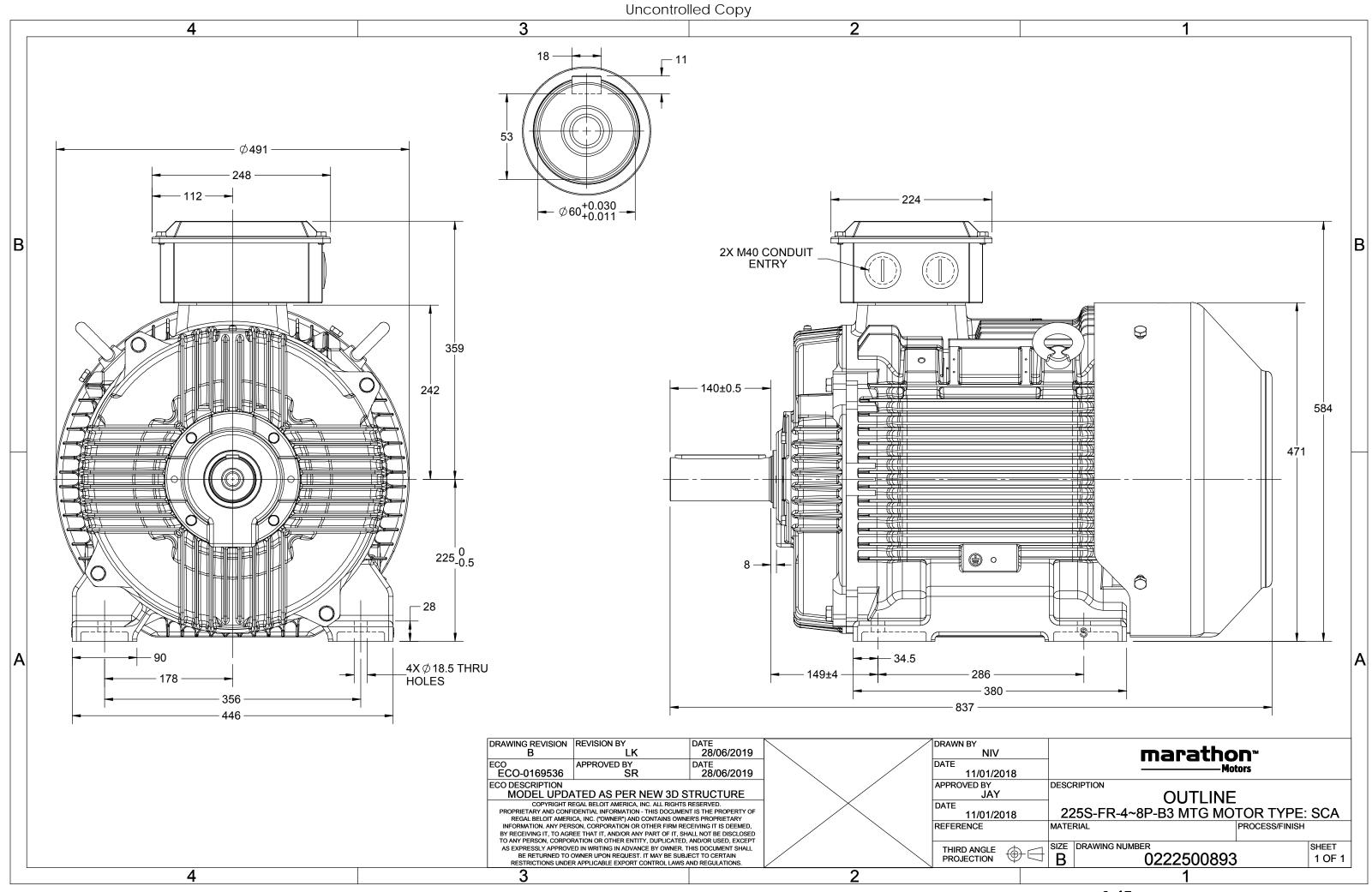
Nameplate Specifications

Output HP	25 Hp	Output KW	18.5 kW
Frequency	50 Hz	Voltage	415 V
Current	40.2 A	Speed	737 rpm
Service Factor	1	Phase	3
Efficiency	88.6 %	Power Factor	0.7228
Duty	S1	Insulation Class	F
Frame	2258	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	225S No Protection	Enclosure Ambient Temperature	Totally Enclosed Fan Cooled 50 °C
Thermal Protection	No Protection	Ambient Temperature	50 °C
Thermal Protection Drive End Bearing Size	No Protection 6313	Ambient Temperature Opp Drive End Bearing Size	50 °C 6213

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	8	Rotation	Bi-Directional
Mounting	B3	Motor Orientation	Horizontal
Drive End Bearing	СЗ	Opp Drive End Bearing	C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	837 mm	Frame Length	400 mm
Shaft Diameter	60 mm	Shaft Extension	140 mm
Assembly/Box Mounting	ТОР		
Outline Drawing	0222500893	Connection Drawing	8442000085

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U	Δ / Y	f	Р	Р	I	n	Т	IE	9	% EFF a	t load	ł	PF	at lo	ad	I _A /I _N	T_A/T_N	Τ _κ /Τ _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	18.5	25	40.3	737	241.88	IE2	-	88.6	88.6	89.4	0.72	0.65	0.52	4.5	1.8	2.3
Motor	type				SCA				Dec	ree of	protecti	n				IP 55		
Enclosi					TEFC					unting		511				IM B3		
	Materia	1			Cast Ir					oling me						IC 411		
Frame		•			2255					•	ght - app	rov				403		kg
Duty	5120				S1											433		kg
,	e variatio	n *			± 10%	6		Gross weight - approx. Motor inertia							1.0859		kgm²	
	ncy varia				± 5%				Load inertia						Custo	omer to Prov	vide	KBIII
	ned varia				10%					Vibration level						2.2		
Design					N					Noise level (1meter distance from motor)					۱	61		mm/s dB(A)
Service					1.0					No. of starts hot/cold/Equally spread					2/3/4			ub(//)
	ion class	:			F					rting m	,	510/ 290	any spr	cuu		DOL		
	nt tempe				-20 to +	-50		°C		•					Direct			
	rature ri			e)	70 [Clas	s B l		К	. 7 6	Type of coupling LR withstand time (hot/cold)						15/30		
	e above			,,,	1000	-		meter		Direction of rotation						15/30 Bi-directional		
	ous area				NA			meter		Standard rotation					Clockwise form DE			
	Zone cla				NA					nt shad					RAL 5014			
	Gas gro	auo			NA				Acc	Accessories								
	Temper		lass		NA					Accessory - 1						-		
Rotor t				Al	uminum [Die cast					cessory -					-		
Bearing				A	Anti-frictio	n ball					cessory -					-		
	DE beari	ng		63	13 C3 / 6	5213 C3			Ter		ox posit					TOP		
-	ition me	•			Regrease	able					cable siz		uit size	1R	x 3C x 5	50mm²/2 x N	∕I40 x 1.5	
	f grease		Sh	ell Gadu		0 or Equiv	alent				erminal l					NA		

 I_A/I_N - Locked Rotor Current / Rated Current

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

 $\rm T_A/\rm T_N$ - 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 combined variation are as per IEC60034-1

Technical da	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	-	-	IS 12615 : 2018	-	-	-						

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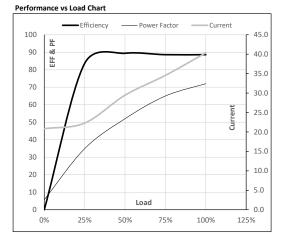
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Model No. SCA18P4A3111GAAD01

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	415	Δ	50	18.5	25	40.3	737	24.66	241.88	IE2	50	S1	1000	1.0859	403

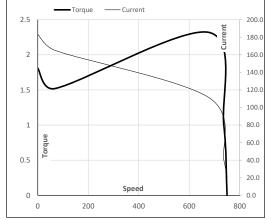
Motor Load Dat	a						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	20.8	22.3	29.5	34.5	40.3	
Torque	Nm	0.0	59.7	119.8	180.5	241.9	
Speed	r/min	750	747	744	741	737	
Efficiency	%	0.0	83.6	89.4	88.6	88.6	
Power Factor	%	5.7	34.9	52.0	65.0	72.0	



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	68	678	737	750
Current	А	183.4	165.1	111.3	40.3	20.8
Torque	pu	1.8	1.5	2.3	1	0

Starting Characteristics Chart



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

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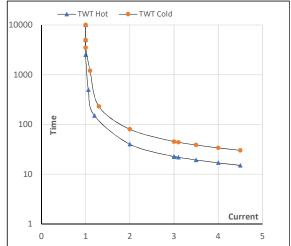
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Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	415	Δ	50	18.5	25	40.3	737	24.66	241.88	IE2	50	S1	1000	1.0859	403

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	40	30	23	19	17	15
TWT Cold	s	10000	80	65	45	39	34	30
Current	pu	1	2	2.5	3	3.5	4	4.5

Thermal Characteristics Chart



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

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