## **PRODUCT INFORMATION PACKET**

Model No: SCA0374A3111GAAD01 Catalog No: SCA0374A3111GAAD01 TerraMAX® Cast Iron Motor, 50 HP, 3 Ph, 50 Hz, 415 V, 750 RPM, 280S Frame, TEFC



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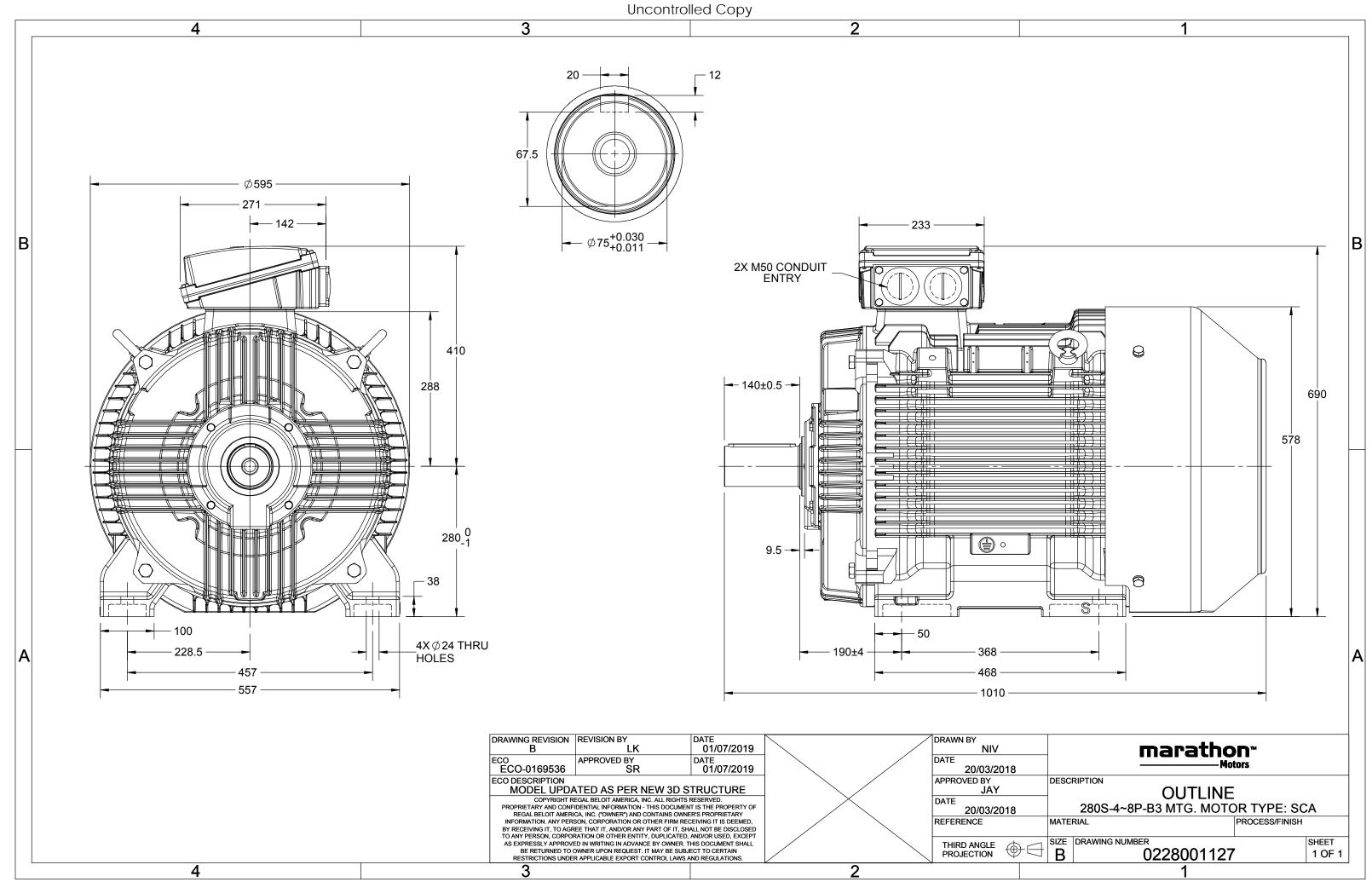
### Nameplate Specifications

Output HP	50 Hp	Output KW	37.0 kW
Frequency	50 Hz	Voltage	415 V
Current	77.3 A	Speed	738 rpm
Service Factor	1	Phase	3
Efficiency	90.3 %	Power Factor	0.7371
Duty	S1	Insulation Class	F
Frame	280S	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	280S 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 6317	Ambient Temperature Opp Drive End Bearing Size	50 °C 6317

## **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	8	Rotation	Bi-Directional
Mounting	B3	Motor Orientation	Horizontal
Drive End Bearing	C3	Opp Drive End Bearing	C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1010 mm	Frame Length	499 mm
Shaft Diameter	75 mm	Shaft Extension	140 mm
Assembly/Box Mounting	TOP		
Connection Drawing	8442000085	Outline Drawing	0228001127

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### Model No. SCA0374A3111GAAD01

U	$\Delta / Y$	f	Р	Р	I	n	Т	IE		% EFF a	t_load	ł	PF	at_lo	bad	I <sub>A</sub> /I <sub>N</sub>	$T_A/T_N$	T <sub>K</sub> /T <sub>N</sub>	
(∨)	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	37	50	78.0	738	482.60	IE2	-	90.3	90.3	92.7	0.74	0.67	0.54	4.6	1.9	2.4	
Motor	type				SCA				De	gree of	protecti	on				IP 55			
Enclosi					TEFC	:				unting	•					IM B3			
Frame	Material	l			Cast Ir	on			Cod	oling me	ethod					IC 411			
Frame	size				2805	;			Mo	Motor weight - approx.						692		kg	
Duty					S1				Gro	oss weig	ght - app	rox.				727		kg	
Voltage	e variatio	on *			± 10%	6				tor ine						3.2584		kgm <sup>2</sup>	
Freque	quency variation * ± 5%							Loa	id inerti	а		Customer to Provide							
Combi	ned varia	d variation * 10%						Vib	ration l	evel				2.2			mm/s		
Design			Ν						No	ise leve	l ( 1mete	er distar	nce fron	n motor	•			dB(A)	
Service	factor						No	No. of starts hot/cold/Equally spread						2/3/4					
Insulat	ion class				F				Sta	rting m	ethod					DOL			
Ambier	nt tempe	erature			-20 to +	-50		°C	Тур	Type of coupling						Direct			
Tempe	rature ri	se (by i	resistand	ce)	70 [ Clas	s B ]		К	LR	LR withstand time (hot/cold)						15/30			
Altitud	e above	sea lev	el		1000	)		meter	Dir	Direction of rotation						<b>Bi-directional</b>			
Hazard	ous area	a classif	ication		NA				Sta	Standard rotation						Clockwise form DE			
	Zone cla	assifica	tion		NA				Pai	Paint shade						RAL 5014			
	Gas gro	up			NA				Acc	essorie	S								
	Temper	ature o	lass		NA					Ac	cessory ·	- 1			-				
Rotor t	уре			A	luminum [	Die cast				Ac	cessory -	2				-			
Bearing	g type			/	Anti-frictic	on ball				Ac	cessory ·	3				-			
DE / NI	/ NDE bearing 6317 C3 / 6317 C3					Ter	minal b	ox posit	ion				TOP						
Lubrica	brication method Regreaseable				Ma	Maximum cable size/conduit size						1R x 3C x 95mm²/2 x M50 x 1.5							
Type o	fgrease		Sh	nell Gad	us S5 V10	0 or Equiv	alent		Aux	kiliary te	erminal l	хос			Avail	able on Reque	est		
I <sub>A</sub> /I <sub>N</sub> - L	ocked R	otor Cu	irrent / I	Rated C	urrent				Т <sub>к</sub> /	T <sub>N</sub> - Bre	akdown	Torque	/ Rated	d Torque	9				
$T_A/T_N$ -	Locked I	Rotor T	orque /	Rated T	orque														

### 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 data are subject to change. There may be slight variations between calculated values in this datasheet and the motor nameplate figures.										
Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC				
Standards	-	-	IS 12615 : 2018	-	-	-				

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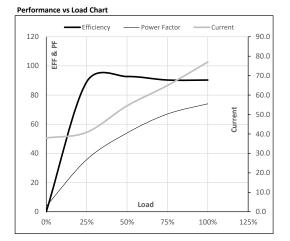
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### Model No. SCA0374A3111GAAD01

Enclosure	U	$\Delta / Y$	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 <sup>2</sup> ]	[kg]
TEFC	415	Δ	50	37	50	77.0	738	49.21	482.60	IE2	50	S1	1000	3.2584	692

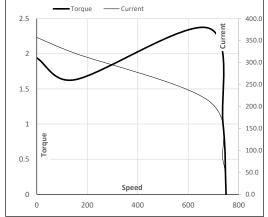
NI A 37.	,	,	-1		5/4FL
A 37.	9 40.8	E4 E			
		54.5	64.9	77.0	
m 0.0	) 119.	2 239.3	360.3	482.6	
in 75	0 747	744	741	738	
% 0.0	) 89.0	92.7	90.3	90.3	
% 3.8	3 35.7	54.0	67.0	74.0	
	in 750 % 0.0	in 750 747 % 0.0 89.0	in 750 747 744 % 0.0 89.0 92.7	in 750 747 744 741 % 0.0 89.0 92.7 90.3	in 750 747 744 741 738 % 0.0 89.0 92.7 90.3 90.3



### Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	150	679	738	750	
Current	А	357.2	321.4	213.8	77.0	37.9	
Torque	pu	1.9	1.6	2.4	1	0	





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

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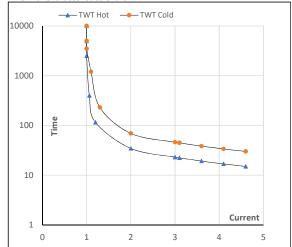
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	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	415	Δ	50	37	50	77.0	738	49.21	482.60	IE2	50	S1	1000	3.2584	692

### Motor Speed Torque Data

Load		FL	$I_1$	I <sub>2</sub>	l <sub>3</sub>	$I_4$	I <sub>5</sub>	LR
TWT Hot	s	10000	35	23	20	18	16	15
TWT Cold	s	10000	69	46	40	37	32	30
Current	pu	1	2	3	3.5	4	4.5	4.6

### Thermal Characteristics Chart



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

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