PRODUCT INFORMATION PACKET

Model No: SCA18P2A1121GAA001 Catalog No: SCA18P2A1121GAA001 TerraMAX® Cast Iron Motor, 25 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 180M Frame, TEFC



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Motors

Fregal Rexnord

Product Information Packet: Model No: SCA18P2A1121GAA001, Catalog No:SCA18P2A1121GAA001 TerraMAX® Cast Iron Motor, 25 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 180M Frame, TEFC

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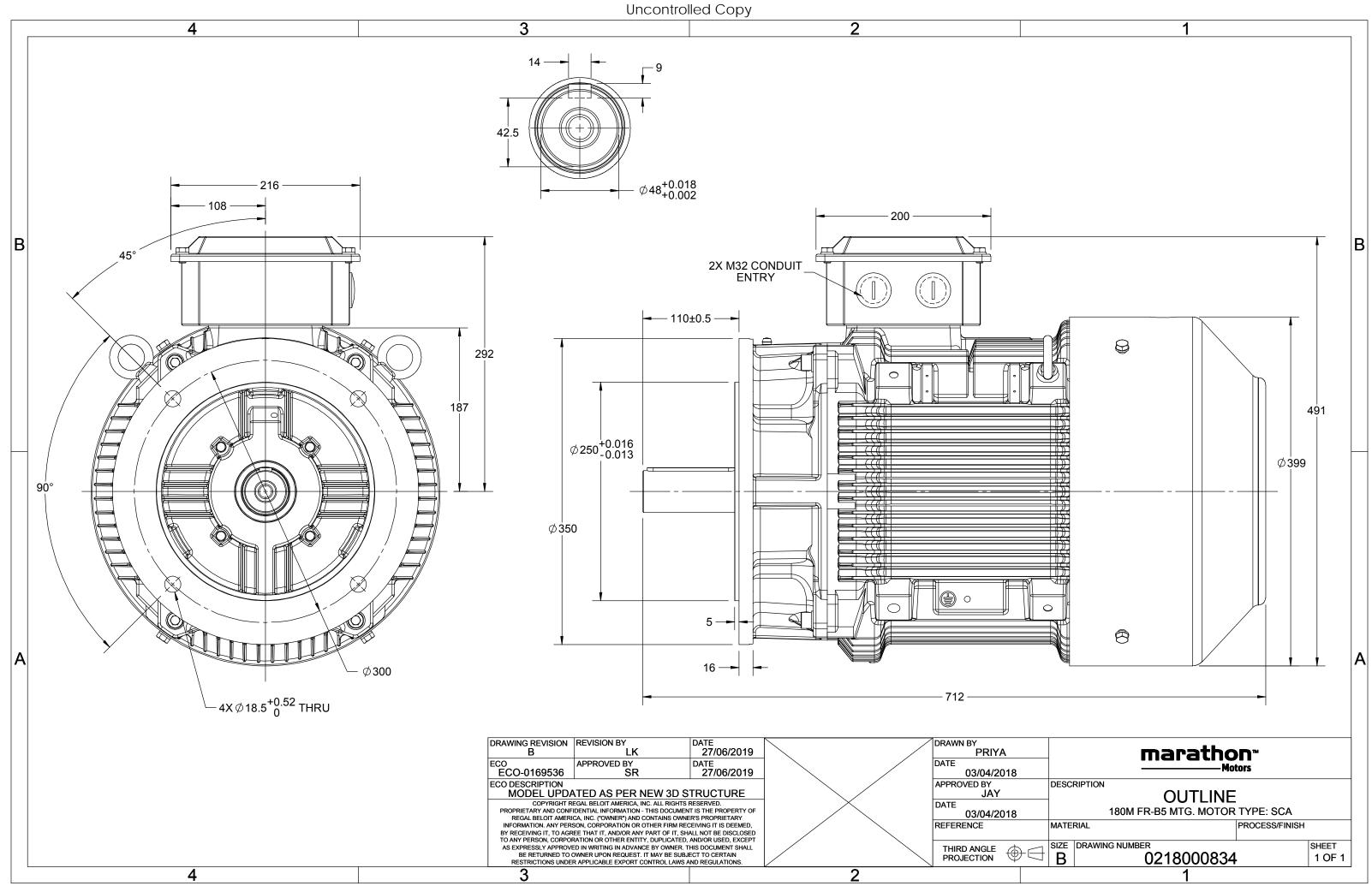
Nameplate Specifications

Output HP	25 Hp	Output KW	18.5 kW		
Frequency	50 Hz	Voltage	400 V		
Current	33.7 A	Speed	1469 rpm		
Service Factor	1	Phase	3		
Efficiency	91.2 %	Power Factor	0.87		
Duty	S1	Insulation Class	F		
Frame	180M	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Ambient Temperature	40 °C		
Drive End Bearing Size	6311	Opp Drive End Bearing Size	6211		
UL	No	CSA	No		
CE	Yes	IP Code	55		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	B5	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	712 mm	Frame Length	328 mm
Shaft Diameter	48 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0218000834

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Model No. SCA18P2A1121GAA001

U	Δ / Y	f	Р	Р	I	n	Т	IE	9	% EFF a	t load	d	PF	at_lo	ad	I _A /I _N	T_A/T_N	$T_{\rm K}/T_{\rm N}$
(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
400	Δ	50	18.5	25	33.7	1469	121.22	IE2	-	91.2	91.2	91.7	0.87	0.83	0.73	6.2	2.2	2.7
Motor	type				SCA				Deg	ree of	orotecti	on				IP 55		
Enclosi	ure				TEFC				Мо	unting	type					IM B5		
Frame	sure TEFC e Material Cast Iron e size 180M size 180M e size 180M ency variation * ± 10% ency variation * ± 5% ined variation * 10% n N e factor 1.0 tion class F ent temperature -20 to +40						Coc	ling me	thod					IC 411				
Frame	osure TEFC ne Material Cast Iron ne size 180M / S1 age variation * ± 10% quency variation * ± 5% abined variation * 10% gn N ice factor 1.0 lation class F obient temperature -20 to +40 perature rise (by resistance) 80 [Class B]						Mo	tor wei	ght - ap	prox.				201		kg		
Duty	losure TEFC me Material Cast Iron me size 180M y S1 tage variation * ± 10% quency variation * ± 5% nbined variation * 10% ign N vice factor 1.0 ilation class F						Gro	ss weig	ht - app	rox.				221		kg		
Voltage	e variatio	n *			± 10%	Ď		Mo	tor iner	tia				0.1433			kgm ²	
Freque	ncy varia	ation *			± 5%	± 5%				Load inertia						Customer to Provide		
Combi	ned varia	tion *						10%		Vibration level						2.2		mm/s
Design					Ν					se level	(1mete	er distar	nce fron	n motor)	66		dB(A)
Service	factor				1.0				No.	of star	ts hot/c	old/Equ	ally spr	ead	2/3/4			
Insulat	ion class				F				Sta	rting me	ethod				DOL			
Ambier	nt tempe	erature			-20 to +	40		°C	Тур	e of co	upling				Direct			
Tempe	rature ri	se (by r	resistanc	e)	80 [Clas	s B]		К	LR v	withsta	nd time	(hot/co	ld)			20/10		S
Altitud	e above	sea lev	el		1000	1		meter	Dire	ection o	of rotatio	on			В	i-directional		
Hazard	ous area	l classif	ication		NA				Sta	ndard r	otation				Cloc	ckwise form D	E	
	Zone cla	assifica	tion		NA				Pair	nt shad	е					RAL 5014		
	Gas gro	up			NA				Acc	essorie	s							
	Temper	ature c	lass		NA					Acc	essory	- 1				PTC 150°C		
Rotor t	ype			Al	uminum [Die cast				Acc	essory	- 2			-			
Bearing	g type			A	Anti-frictic	n ball				Accessory - 3					-			
DE / NI	DE bearii	ng		63	11-2Z / e	5211-2Z			Ter	minal b	ox posit	ion				TOP		
Lubrica	ition me	thod		(Greased fo	or life			Ma	ximum	cable si	ze/cond	uit size	1R	x 3C x 3	35mm²/2 X M	32 x 1.5	
Type o	f grease				NA				Aux	iliary te	rminal	box			Avail	able on Requ	est	

 I_{A}/I_{N} - Locked Rotor Current / Rated Current T_{A}/T_{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	IEC: 60034-30	-	-	AS/NZ 1359:5:2004	-	IEC: 60034-30				

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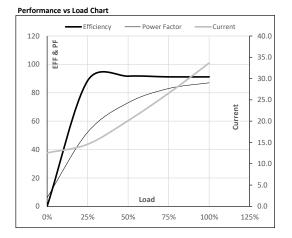
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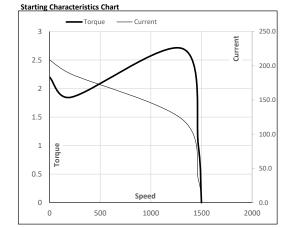
Model No. SCA18P2A1121GAA001

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	400	Δ	50	18.5	25	33.7	1469	12.36	121.22	IE2	40	S1	1000	0.1433	201

Motor Load Data	a						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	12.5	14.6	20.1	26.6	33.7	
Torque	Nm	0.0	29.8	59.9	90.4	121.2	
Speed	r/min	1500	1493	1485	1477	1469	
Efficiency	%	0.0	88.5	91.7	91.2	91.2	
Power Factor	%	6.1	52.2	73.0	83.0	87.0	



Motor Speed T	orque Data						
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	214	1313	1469	1500	
Current	А	208.6	187.8	121.3	33.7	12.5	
Torque	pu	2.2	1.8	2.7	1	0	



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

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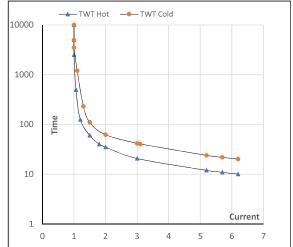
Model No. SCA18P2A1121GAA001

Enclosure	U	Δ / Y	f	Р	Р	Т	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	400	Δ	50	18.5	25	33.7	1469	12.36	121.22	IE2	40	S1	1000	0.1433	201

Motor Speed Torque Data

Load		FL	I_1	I ₂	l ₃	I_4	l ₅	LR
TWT Hot	s	10000	35	21	18	14	11	10
TWT Cold	s	10000	62	41	36	30	22	20
Current	pu	1	2	3	4	5	5.5	6.2

Thermal Characteristics Chart



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

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