PRODUCT INFORMATION PACKET

Model No: SCA1P13A1131GAA001 Catalog No: SCA1P13A1131GAA001 TerraMAX® Cast Iron Motor, 1.50 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 90L Frame, TEFC



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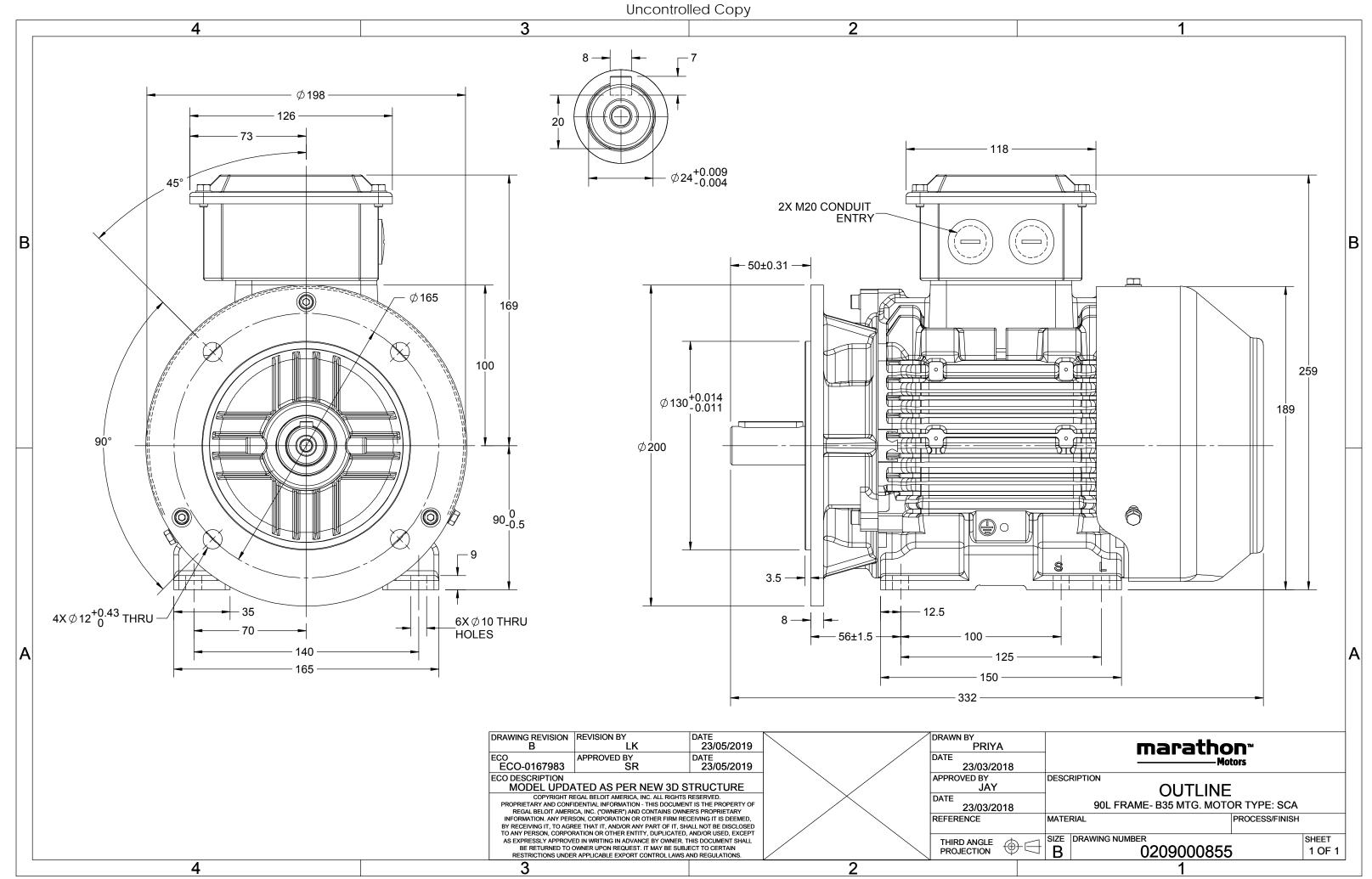
Nameplate Specifications

Output HP	1.50 Hp	Output KW	1.1 kW
Frequency	50 Hz	Voltage	400 V
Current	2.7 A	Speed	912 rpm
Service Factor	1	Phase	3
Efficiency	78.1 %	Power Factor	0.76
Duty	S1	Insulation Class	F
Frame	90L	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	90L 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 6205	Ambient Temperature Opp Drive End Bearing Size	40 °C 6205

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line		
Poles	6	Rotation	Bi-Directional		
Mounting	B35	Motor Orientation	Horizontal		
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3		
Frame Material	Cast Iron	Shaft Type	Keyed		
Overall Length	332 mm	Frame Length	153 mm		
Shaft Diameter	24 mm	Shaft Extension	50 mm		
Assembly/Box Mounting	Тор				
Connection Drawing	8442000085	Outline Drawing	0209000855		

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$U \Delta / Y f$	Р	P I	n	т	IE	%	6 EFF at	load	1	PF	at_lo	ad	I _A /I _N	T_A/T_N	$T_{\rm K}/T_{\rm N}$		
(V) Conn [Hz]	[kW] [ł	hp] [A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]		
400 Y 50	1.1 1	l.5 2.7	912	11.73	IE2	-	78.1	78.1	77.5	0.76	0.68	0.55	4.1	2.4	2.4		
		SCA											IP 55				
Motor type						•		ee of protection									
Enclosure		TEFO					inting t						IM B35				
Frame Material		Cast Ir					ing me						IC 411		kg		
Frame size		90L				Mot	or weig	ht - app	orox.			27.5					
Duty		S1				Gros	Gross weight - approx.						28.5				
Voltage variation *		± 10%				Motor inertia							0.0048		kgm ²		
Frequency variation *		± 5%	, D			Load inertia						Custo	omer to Provi	de			
Combined variation *		10%				Vibration level							1.6		mm/s		
Design		Ν				Nois	e level	(1mete	er distar	nce fron	n motor)	54		dB(A)		
Service factor		1.0				No.	of starts	s hot/co	old/Equ	ally spr	ead		2/3/4				
Insulation class		F				Star	ting me	thod				DOL					
Ambient temperature		-20 to	+40		°C	Туре	e of cou	pling					Direct				
Temperature rise (by res	sistance)	80 [Clas	s B]		К	LR w	vithstan	d time	(hot/co	ld)			30/15		s		
Altitude above sea level		1000)		meter	Dire	ction of	rotatio	n			В	i-directional				
Hazardous area classifica	ation	NA				Stan	dard ro	tation				Cloc	ckwise form D	Ε			
Zone classification	on	NA				Pain	t shade						RAL 5014				
Gas group		NA				Acce	essories										
Temperature cla	SS	NA					Acce	essory -	1				PTC 150°C				
Rotor type		Aluminum	Die cast				Acce	essory -	2			-					
Bearing type		Anti-frictio	on ball				Accessory - 3					-					
DE / NDE bearing		6205-2Z /	6205-2Z			Tern	ninal bo					ТОР					
Lubrication method		Greased f					imum c	•		uit size	1R	1R x 3C x 10mm ² /2 x M20 x 1.5					
Type of grease		NA					liary te		.,				able on Regu				
. / - 0. 5. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.																	

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

 $T_{\rm K}/T_{\rm N}$ - Breakdown Torque / Rated Torque

A N Looked Hotor Forque

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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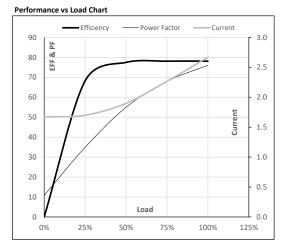


Model No. SCA1P13A1131GAA001

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	Y	50	1.1	1.5	2.7	912	1.20	11.73	IE2	40	S1	1000	0.0048	27.5

Motor Load Data

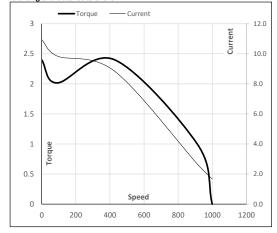
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	1.7	1.7	1.9	2.3	2.7	
Torque	Nm	0.0	2.7	5.6	8.5	11.7	
Speed	r/min	1000	980	961	939	912	
Efficiency	%	0.0	68.2	77.5	78.1	78.1	
Power Factor	%	10.8	34.9	55.0	68.0	76.0	
rowerractor	70	10.0	54.5	55.0	00.0	70.0	



Motor Speed Torque Data

motor opec	a lorque bu						
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	91	428	912	1000	
Current	А	10.9	9.9	8.8	2.7	1.7	
Torque	pu	2.4	2.0	2.4	1	0	

Starting Characteristics Chart



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

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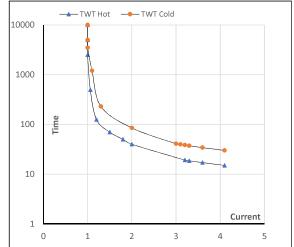
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Enclosure	U	Δ / Y	f	Р	Ρ	Т	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	1.1	1.5	2.7	912	1.20	11.73	IE2	40	S1	1000	0.0048	27.5

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	l ₅	LR
TWT Hot	s	10000	40	35	25	18	16	15
TWT Cold	s	10000	40	39	38	35	32	30
Current	pu	1	2	2.5	3	3.5	4	4.1

Thermal Characteristics Chart



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

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