PRODUCT INFORMATION PACKET

Model No: SCA0033AG121GAA001 Catalog No: SCA0033AG121GAA001 TerraMAX® Cast Iron Motor, 4 HP, 3 Ph, 50 Hz, 220/380 V, 1000 RPM, 132S Frame, TEFC



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Product Information Packet: Model No: SCA0033AG121GAA001, Catalog No:SCA0033AG121GAA001 TerraMAX® Cast Iron Motor, 4 HP, 3 Ph, 50 Hz, 220/380 V, 1000 RPM, 132S Frame, TEFC

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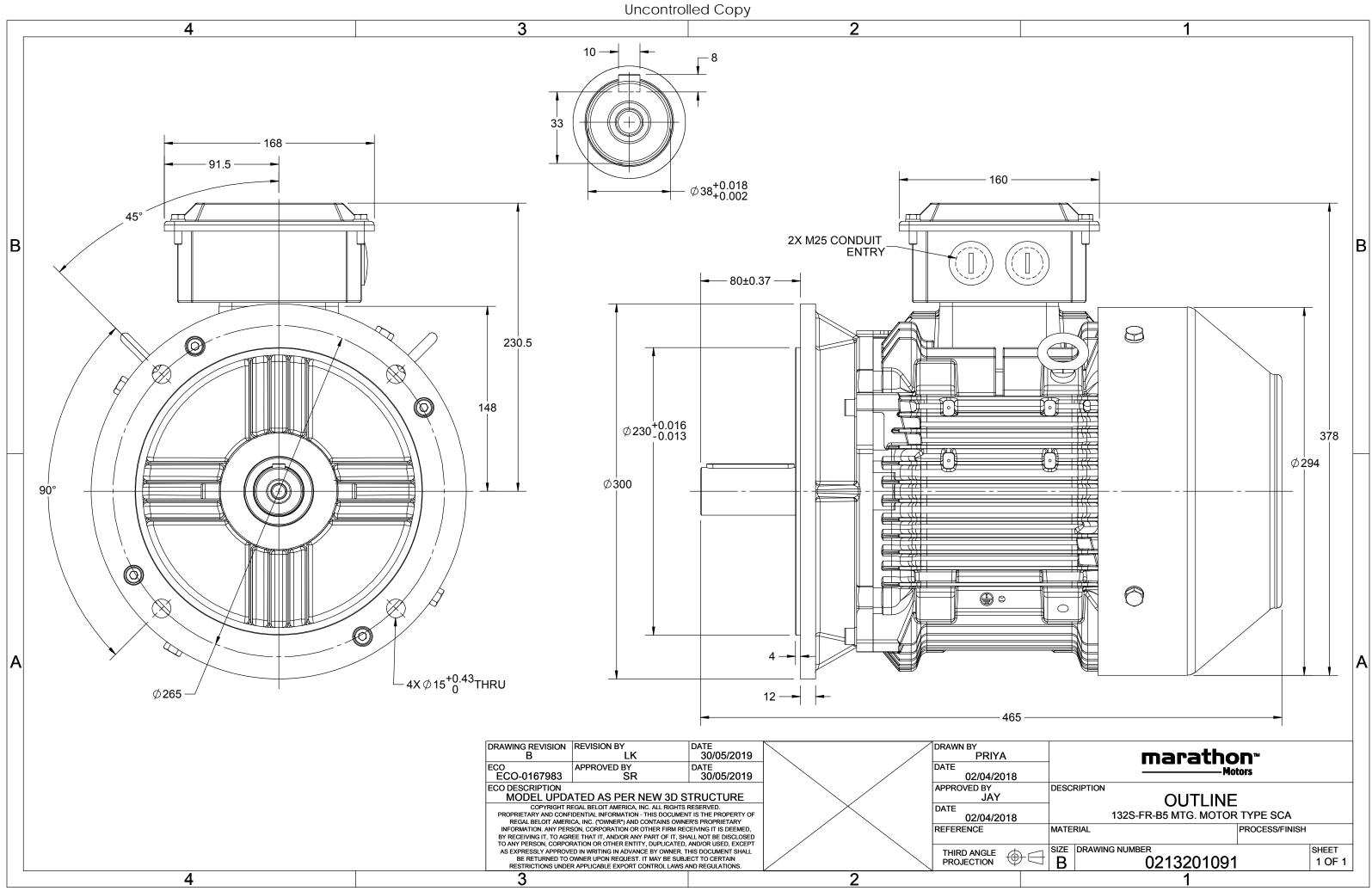
Nameplate Specifications

Output HP	4 Hp	Output KW	3.0 kW
Frequency	50 Hz	Voltage	220/380 V
Current	7.0 A	Speed	957 rpm
Service Factor	1	Phase	3
Efficiency	83.3 %	Power Factor	0.78
Duty	S1	Insulation Class	F
Frame	132S	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6308	Opp Drive End Bearing Size	6208
UL	No	CSA	No
UL CE	No Yes	CSA IP Code	No 55

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	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	465 mm	Frame Length	202 mm
Shaft Diameter	38 mm	Shaft Extension	80 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0213201091

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U	Δ / Y	f	Р	Р	I	n	Т	IE		% EFF a	t loa	d	PF	at lo	bad	I _A /I _N	T_A/T_N	$T_{\rm K}/T_{\rm N}$	
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]	
220/380	Y	50	3	4.0	7.0	957	29.83	IE2	-	83.3	83.3	83.6	0.78	0.71	0.59	6.1	2.5	2.8	
Motor type					SCA				Degree of protection							IP 55			
Enclosure					TEFC	;				ounting						IM B5			
Frame Mate	Material Cast Iron							oling m						IC 411					
Frame size		132S Motor weight - approx.								73		kg							
Duty					S1				Gross weight - approx.							76		kg	
Voltage var	iation *				± 10%	6			Mo	Motor inertia						kgm ²			
Frequency	variation	*			± 5%	± 5% Load inertia						Custo	omer to Provi	de					
Combined v	nbined variation * 10%					Vit	oration I	evel					1.6		mm/s				
Design					Ν				No	ise leve	l (1met	er dista	nce fror	n moto	r)	59		dB(A)	
Service fact	or				1.0				No	No. of starts hot/cold/Equally spread						2/3/4			
Insulation c	lass				F				Sta	Starting method						DOL			
Ambient te	mperatu	re			-20 to +	-40		°C	Ту	Type of coupling					Direct				
Temperatu	re rise (b	y resist	ance)		80 [Clas	s B]		К	LR	withsta	nd time	(hot/co	old)			15/30		S	
Altitude ab	ove sea l	evel			1000)		meter	Dir	rection o	of rotati	on			В	i-directional			
Hazardous	area clas	sificati	on		NA				Sta	andard r	otation				Cloc	kwise form D	E		
	Zone cla	assifica	tion		NA				Pai	Paint shade					RAL 5014				
	Gas gro	up			NA				Ac	cessorie	s								
	Temper	rature	class		NA					Ac	cessory	- 1				-			
Rotor type				Alu	uminum I	Die cast				Accessory - 2					-				
Bearing typ	e			A	nti-frictio	on ball				Ac	cessory	- 3			-				
DE / NDE be	earing			63	08-2Z / 6	5208-2Z			Te	rminal b	ox posi	tion				TOP			
Lubrication	method			e	Freased for	or life			Ma	aximum	cable si	ze/conc	luit size	1R	x 3C x 1	.6mm²/2 x M	25 x 1.5		
Type of gre	ase				NA				Au	xiliary to	erminal	box			Availa	able on Reque	est		

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

 $T_{\rm K}/T_{\rm N}$ - 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

 $\ensuremath{^*}$ 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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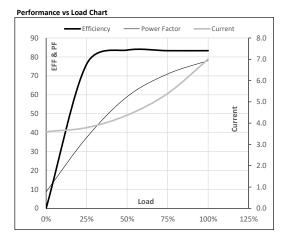
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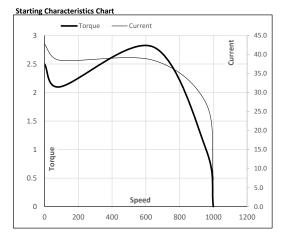
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Enclosure	U (V)	Δ / Y Conn	f [Hz]	P [kW]	P [hp]	I [A]	n [RPM]	T [kgm]	T [Nm]	IE Class	Amb [°C]	Duty	Elevation [m]	Inertia [kg-m ²]	Weight [kg]
TEFC	220/380	Y	50	3	4.0	7.0	957	3.04	29.83	IE2	40	\$1	1000	0.0211	73

Motor Load Dat	ta						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	3.6	3.8	4.4	5.4	7.0	
Torque	Nm	0.0	7.2	14.6	22.1	29.8	
Speed	r/min	1000	990	980	969	957	
Efficiency	%	0.0	76.2	83.6	83.3	83.3	
Power Factor	%	8.7	37.4	59.0	71.0	78.0	



Motor Speed Torque Data												
Load Point		LR	P-Up	BD	Rated	NL						
Speed	r/min	0	91	644	957	1000						
Current	А	42.8	38.5	27.2	7.0	3.6						
Torque	pu	2.5	2.1	2.8	1	0						



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

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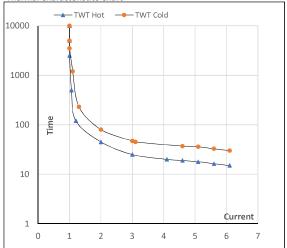
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Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC 2	220/380	Y Y	50	3	4.0	7.0	957	3.04	29.83	IE2	40	S1	1000	0.0211	73

Motor Speed Torque Data

Load		FL	I_1	I_2	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	45	25	21	18	17	15
TWT Cold	s	10000	80	47	46	36	33	30
Current	pu	1	2	3	4	5	5.5	6.1

Thermal Characteristics Chart



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

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