PRODUCT INFORMATION PACKET

Model No: SCA0033AG141GAA001 Catalog No: SCA0033AG141GAA001 TerraMAX® Cast Iron Motor, 4 HP, 3 Ph, 50 Hz, 220/380 V, 1000 RPM, 132S Frame, TEFC



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Motors

Fregal Rexnord



Product Information Packet: Model No: SCA0033AG141GAA001, Catalog No:SCA0033AG141GAA001 TerraMAX® Cast Iron Motor, 4 HP, 3 Ph, 50 Hz, 220/380 V, 1000 RPM, 132S Frame, TEFC

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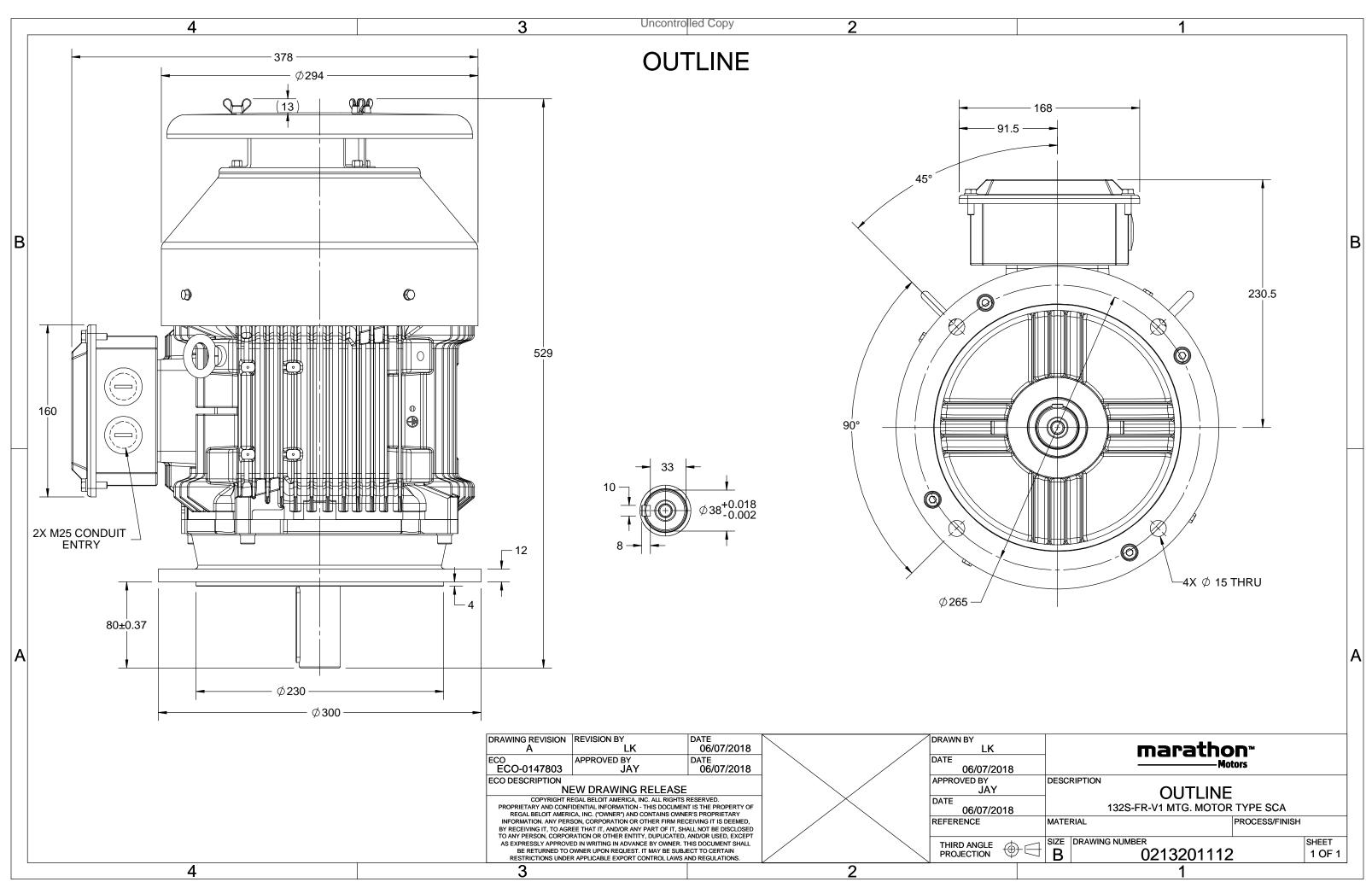
Nameplate Specifications

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
Frame Thermal Protection	132S 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 6308	Ambient Temperature Opp Drive End Bearing Size	40 °C 6208

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	Rotation	Bi-Directional
Mounting	V1	Motor Orientation	Shaftdown
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	529 mm	Frame Length	202 mm
Shaft Diameter	38 mm	Shaft Extension	80 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0213201112	Connection Drawing	8442000085

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3 of 7





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r			1						1										
U	Δ / Y	f	Р	Р	I	n	Т	IE			t load		PF	at lo		I _A /I _N	T_A/T_N	Τ _κ /Τ _Ν	
(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	-	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]	
220/380	Υ	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	
					SCA					ſ						IP 55			
Motor ty	•										orotecti	on							
Enclosure										mounting type						IM V1			
Frame M					Cast Ire					Cooling method						IC 411		kg	
Frame siz	ze				1325	,				Motor weight - approx.						73			
Duty					S1					Gross weight - approx.						76		kg	
Voltage v					± 10%				Mo	Motor inertia						0.0211		kgm ²	
Frequenc	cy variat	tion *			± 5%				Loa	Load inertia				Custo	omer to Pro	ovide			
Combine	d variat	ion *			10%				Vib	ration le	evel					1.6		mm/s	
Design					N				Noi	se level	(1met	er distar	nce fron	n motor	-			dB(A)	
Service fa	actor				1.0				No.	of star	ts hot/c	old/Equ	ally spro	ead	2/3/4				
Insulation	n class				F				Sta	rting me	ethod					DOL			
Ambient	temper	ature			-20 to +	-40		°C	Тур	e of cou	upling					Direct			
Tempera	ture ris	e (by re	esistance	e)	80 [Clas	s B]		К	LR ۱	withstar	nd time	(hot/co	ld)			30/15		S	
Altitude a	above s	ea leve	el		1000)		meter	Dire	ection o	f rotatio	on			В	Bi-directiona	ıl		
Hazardou	us area	classifi	cation		NA				Sta	ndard ro	otation				Cloc	ckwise form	DE		
	Zone	classifi	cation		NA				Pair	nt shade	e					RAL 5014			
	Gas g	roup			NA				Acc	essories	S								
	Temp	erature	e class		NA					Acc	essory ·	· 1				-			
Rotor typ				Alu	iminum [Die cast				Acc	essory	- 2				-			
Bearing t				А	nti-frictic	on ball				Acc	essory ·	- 3				-			
DE / NDE		g		630)8-2Z / 6	5208-2Z			Ter		ox posit				TOP				
, Lubricatio		-		G	reased fo	or life						ze/cond	uit size	1R	x 3C x 2	16mm²/2 x	M25 x 1.5		
											-		-						

 $\rm I_A/\rm I_N$ - Locked Rotor Current / Rated Current T_A/T_N - Locked Rotor Torque / Rated Torque $\rm T_{\rm K}/\rm T_{\rm N}$ - Breakdown Torque / Rated Torque

Auxiliary terminal box

NOTE

Type of grease

All performance values at rated voltage and frequency.

All performance parameters are subjected to standard tolerance as per IEC 60034-1

NA

* 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



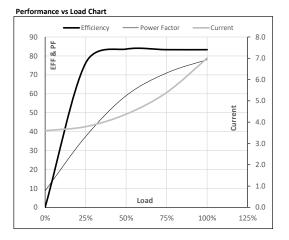
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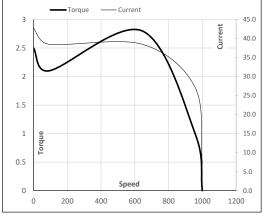
Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	220/380	Y	50	3	4.0	7.0	957	3.04	29.83	IE2	40	S1	1000	0.0211	73

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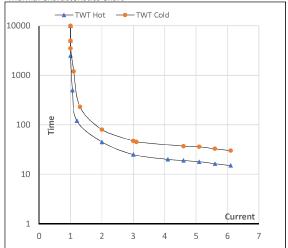
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Enclosure	U	Δ / Y	f	Р	Ρ	I	n	т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	220/380) Y	50	3	4.0	7.0	957	3.04	29.83	IE2	40	S1	1000	0.0211	73

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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