PRODUCT INFORMATION PACKET

Model No: SCA0034A3141GAAD01 Catalog No: SCA0034A3141GAAD01 TerraMAX® Cast Iron Motor, 4 HP, 3 Ph, 50 Hz, 415 V, 750 RPM, 132M Frame, TEFC



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Motors





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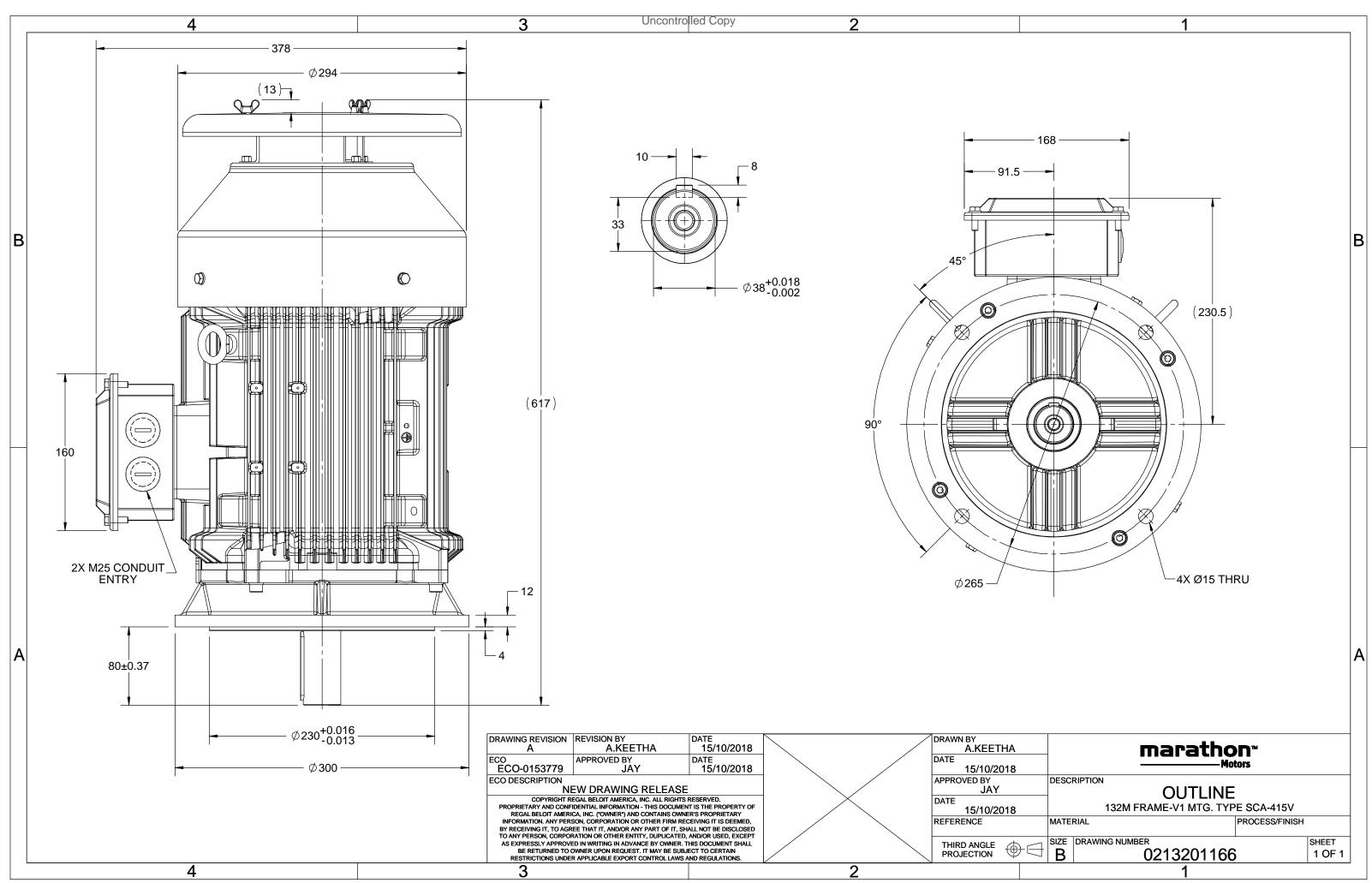
Nameplate Specifications

Output HP	4 Hp	Output KW	3.0 kW
Frequency	50 Hz	Voltage	415 V
Current	7.7 A	Speed	707 rpm
Service Factor	1	Phase	3
Efficiency	80 %	Power Factor	0.6766
Duty	S1	Insulation Class	F
Frame	132M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	50 °C
Drive End Bearing Size	6308	Opp Drive End Bearing Size	6208
UL	No	CSA	No
CE	No Yes	IP Code	<u>No</u> 55

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line	
Poles	8	Rotation	Bi-Directional	
Mounting	V1	Motor Orientation	Shaft Down	
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3	
Frame Material	Cast Iron	Shaft Type	Keyed	
Overall Length	617 mm	Frame Length	290 mm	
Shaft Diameter	38 mm	Shaft Extension	80 mm	
Assembly/Box Mounting	ТОР			
Outline Drawing	0213201166	Connection Drawing	8442000085	

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U	Δ / Y	f	Р	Р	I	n	Т	IE	9	% EFF a	t load	1	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]
415	Y	50	3	4.0	7.7	707	40.40	IE2	-	80.0	80.0	79.3	0.68	0.59	0.44	4.1	2.1	2.3
					SCA											IP 55		
Motor					SCA TEFC						protecti	on				IP 55 IM V1		
Enclosu										unting								
	Material				Cast Ir	ron Cooling met M Motor weigl Gross weigh % Motor inertiant % Load inertiant % Vibration level										IC 411		
Frame	size				132N	ron Cooling method M Motor weight - approx. Gross weight - approx. Motor inertia Motor inertia Vibration level Noise level (1meter dist										93		kg
Duty					S1			Gross weight - approx. Motor inertia Load inertia								96		kg
Voltage	e variatio	on *			± 10%	0		Motor inertia							0.0764		kgm ²	
Freque	ncy varia	ation *			± 5%			Load inertia						Custo	omer to Pro	vide		
Combi	ned varia	ation *			10%										1.6		mm/s	
Design					Ν				Noi	se leve	(1mete	er distar	nce fror	n motor)	58		dB(A)
Service	factor				1.0				No.	of star	ts hot/co	old/Equ	ally spr	lly spread 2/3/4				
Insulat	ion class				F				Star	rting m	ethod				DOL			
Ambier	nt tempe	erature			-20 to +	-50		°C	Тур	e of co	upling					Direct		
Tempe	rature ri	se (by r	esistanc	e)	70 [Clas	s B]		К	LR v	withsta	nd time	(hot/co	ld)			15/30		s
Altitud	e above	sea lev	el		1000	1		meter	Dire	ection o	of rotatio	n			В	i-directiona	I	
Hazard	ous area	a classif	ication		NA				Star	ndard r	otation				Cloc	ckwise form	DE	
	Zone cla	assifica	tion		NA				Pair	nt shad	е					RAL 5014		
	Gas gro	up			NA				Acc	essorie	S							
	Temper	•	lass		NA					Ace	cessory -	1				-		
Rotor t	vpe			Alı	uminum (Die cast				Ace	cessory -	2				-		
Bearing	z type			А	nti-frictio	n ball					, cessory -					-		
	DE bearii	ng		63	08-2Z / 6	208-2Z			Ter		ox posit					TOP		
	tion me	0			Greased fo						cable siz		uit size	1F	x 3C x 3	16mm²/2 x I	M25 x 1.5	
	fgrease				NA						erminal	•				NA		
.,	0.0000																	

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

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

 T_A/T_N - Locked Rotor 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	-	-	IS 12615 : 2018	-	-	-

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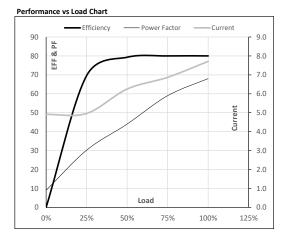
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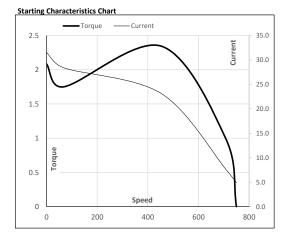
Model No. SCA0034A3141GAAD01

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	415	Y	50	3	4.0	7.7	707	4.12	40.40	IE2	50	S1	1000	0.0764	93.2

Motor Load Dat	ta						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	4.9	5.0	6.3	6.9	7.7	
Torque	Nm	0.0	9.7	19.6	29.8	40.4	
Speed	r/min	750	740	731	720	707	
Efficiency	%	0.0	69.6	79.3	80.0	80.0	
Power Factor	%	9.0	30.2	44.0	59.0	68.0	



Motor Speed 1	Motor Speed Torque Data													
Load Point		LR	P-Up	BD	Rated	NL								
Speed	r/min	0	68	453	707	750								
Current	А	31.5	28.4	23.1	7.7	4.9								
Torque	pu	2.1	1.8	2.3	1	0								



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

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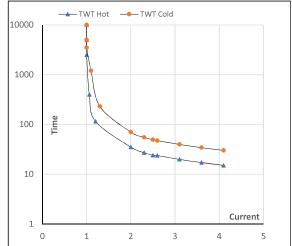
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	415	Y	50	3	4.0	7.7	707	4.12	40.40	IE2	50	S1	1000	0.0764	93

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	l ₅	LR
TWT Hot	s	10000	35	24	20	18	16	15
TWT Cold	s	10000	70	49	40	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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