PRODUCT INFORMATION PACKET

Model No: SCA1504A3113GAAD01 Catalog No: SCA1504A3113GAAD01 TerraMAX® Cast Iron Motor, 200 HP, 3 Ph, 50 Hz, 415 V, 750 RPM, 355M Frame, TEFC



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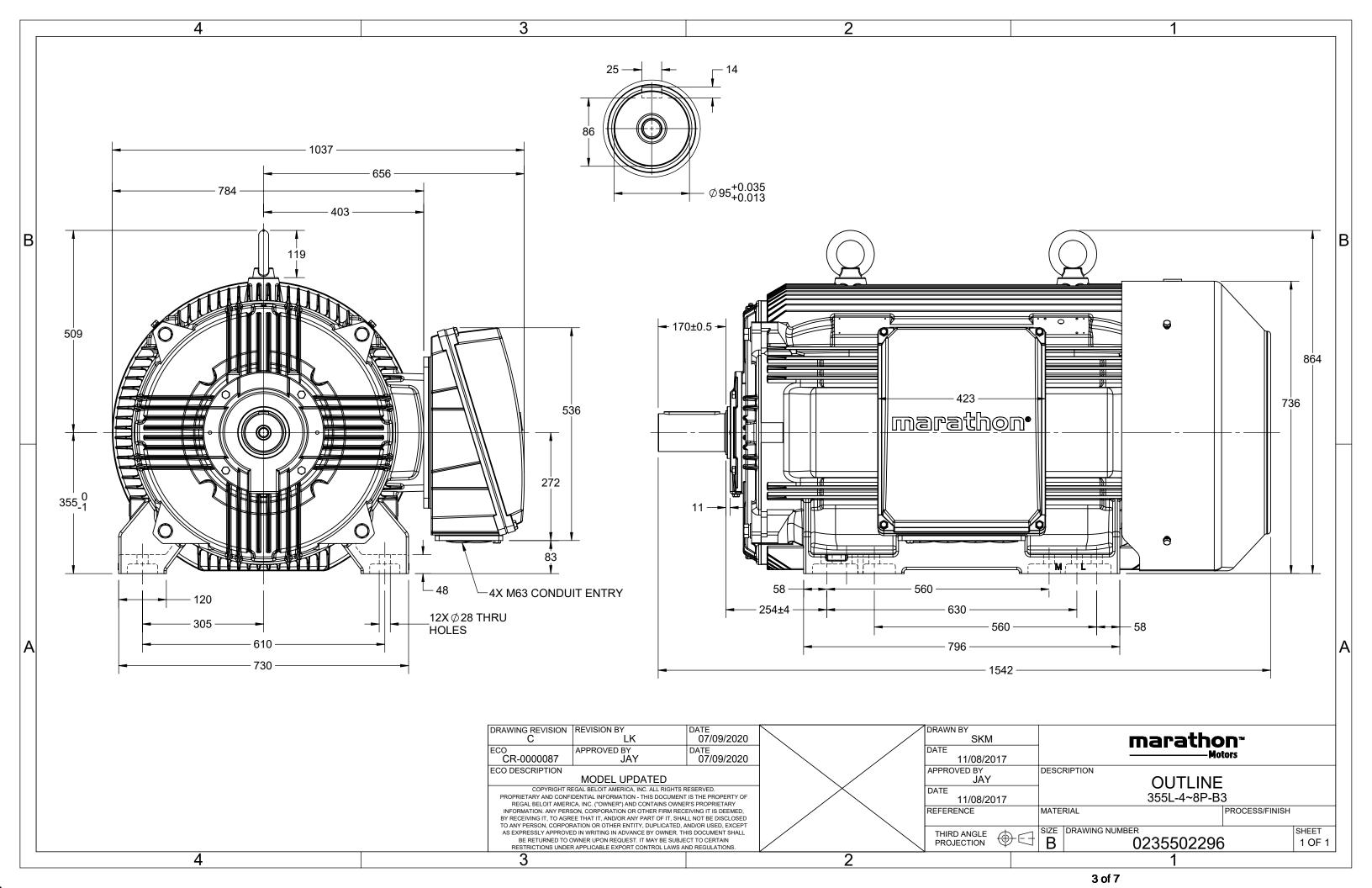
Nameplate Specifications

Output HP	200 Нр	Output KW	150.0 kW
Frequency	50 Hz	Voltage	415 V
Current	273.7 A	Speed	742 rpm
Service Factor	1	Phase	3
Efficiency	92.9 %	Power Factor	0.8207
Duty	S1	Insulation Class	F
Frame	355M	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	355M No Protection	Enclosure Ambient Temperature	Totally Enclosed Fan Cooled 50 °C
Thermal Protection	No Protection	Ambient Temperature	50 °C
Thermal Protection Drive End Bearing Size	No Protection 6322	Ambient Temperature Opp Drive End Bearing Size	50 °C 6322

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line	
Poles	8	Rotation	Bi-Directional	
Mounting	B3	Motor Orientation	Horizontal	
Drive End Bearing	C3	Opp Drive End Bearing	C3	
Frame Material	Cast Iron	Shaft Type	Keyed	
Overall Length	1542 mm	Frame Length	1010 mm	
Shaft Diameter	95 mm	Shaft Extension	170 mm	
Assembly/Box Mounting	RHS			
Outline Drawing	0235502296	Connection Drawing	8442000085	

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U	Δ/Υ	f	Р	Р		n	т	IE		% EFF a	t load	ł	PF	at _ lo	bad	I _A /I _N	T_A/T_N	T _K /T _N
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL		FL		1/2FL	[pu]	[pu]	[pu]
415	Δ	50	150	200	272.1	742	1919.39	IE2	-	92.9	92.9	94.6	0.83	0.79	0.69	5.5	1.5	2.4
Motor typ	pe				SCA				Deg	gree of	protecti	on				IP 55		
Enclosure	2				TEFC				Mo	unting	type					IM B3		
Frame Ma	aterial				Cast Irc	on			Cod	oling me	ethod					IC 411		
Frame siz	e				355M				Mo	tor wei	ght - ap	prox.				1728		kg
Duty					S1				Gro	Gross weight - approx.						1773		
Voltage v	ariation *	•			± 10%				Мо	Motor inertia						9.9098		
Frequenc	y variatio	n *			± 5%				Loa	Load inertia					Custo	omer to Provi	de	kgm ²
Combined	d variatio	n *		10%				Vib	ration l	evel					2.8		mm/s	
Design					N				Noi	Noise level (1meter distance from motor)					r)	65		dB(A)
Service fa	ictor				1.0				No	No. of starts hot/cold/Equally spread					2/3/4			
Insulation	n class				F				Sta	rting m	ethod				DOL			
Ambient	temperat	ure			-20 to +	50		°C	Тур	Type of coupling						Direct		
Temperat	ture rise (by resis	stance)		70 [Class	5 B]		К	LR	withsta	nd time	(hot/co	ld)		15/30			S
Altitude a	bove sea	level			1000			meter	Dir	Direction of rotation						Bi-directional		
Hazardou	is area cla	assificat	ion		NA				Sta	Standard rotation					Clockwise form DE			
	Zone cl	assifica	tion		NA				Pai	nt shad	е				RAL 5014			
	Gas gro	oup			NA				Acc	cessorie	s							
	Temper	rature o	lass		NA					Acc	essory -	- 1			-			
Rotor typ	e			Aluminum Die cast				Accessory - 2					-					
Bearing ty	ype			A	nti-frictio	n ball				Acc	essory -	- 3				-		
DE / NDE	bearing			63	22 C3 / 6	322 C3			Ter	minal b	ox posit	ion				RHS		
Lubricatio	on metho	d			Regrease	able			Ma	ximum	cable siz	ze/cond	uit size	1R	x 3C x 3	00mm²/4 x N	163 x 1.5	
Type of g	rease		Sh	ell Gadu	us S5 V100) or Equiv	/alent		Aux	kiliary te	erminal	box			Avail	able on Requ	est	

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

 T_A/T_N - Locked Rotor Torque / Rated Torque

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

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	-	-	IS 12615 : 2018	-	-	-					

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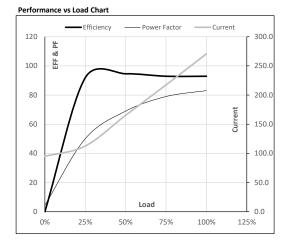
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Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	415	Δ	50	150	200	270.6	742	195.72	1919.39	IE2	50	S1	1000	9.9098	1728

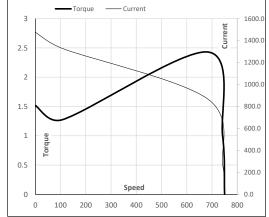
Motor Load Dat	ta						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	95.0	112.6	165.3	217.4	270.6	
Torque	Nm	0.0	475.1	954.6	1435.5	1919.4	
Speed	r/min	750	748	746	744	742	
Efficiency	%	0.0	91.9	94.6	92.9	92.9	
Power Factor	%	4.4	50.1	69.0	79.0	83.0	



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	107	683	742	750
Current	А	1476.2	1328.6	869.4	270.6	95.0
Torque	pu	1.5	1.3	2.4	1	0





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

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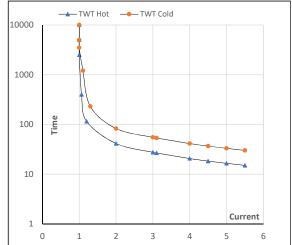
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	415	Δ	50	150	200	270.6	742	195.72	1919.39	IE2	50	S1	1000	9.9098	1728

Motor Speed Torque Data

Load		FL	I_1	I ₂	I_3	I_4	I ₅	LR
TWT Hot	s	10000	41	28	21	18	17	15
TWT Cold	s	10000	83	55	41	37	33	30
Current	ри	1	2	3	4	4.5	5	5.5

Thermal Characteristics Chart



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

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