PRODUCT INFORMATION PACKET

Model No: SCA0371A1141GAA001 Catalog No: SCA0371A1141GAA001 TerraMAX® Cast Iron Motor, 50 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 200L Frame, TEFC



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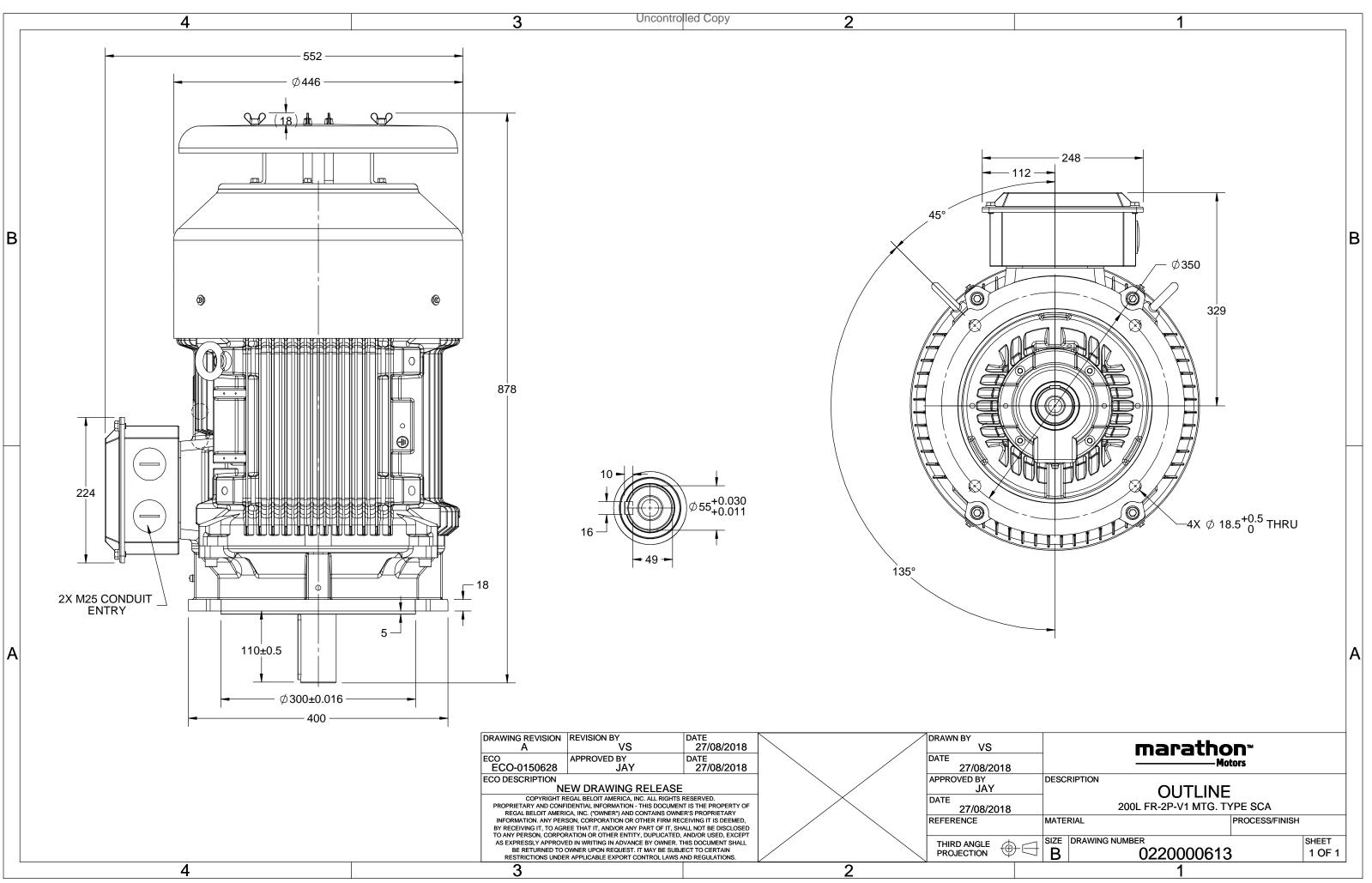
Nameplate Specifications

Output HP	50 Hp	Output KW	37.0 kW		
Frequency	50 Hz	Voltage	400 V		
Current	64.2 A	Speed	2953 rpm		
Service Factor	1	Phase	3		
Efficiency	92.5 %	Power Factor	0.9		
Duty	S1	Insulation Class	F		
Frame	200L	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Ambient Temperature	40 °C		
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6212		
Drive End Bearing Size	6312 No	Opp Drive End Bearing Size CSA			
-			6212		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	Rotation	Bi-Directional
Mounting	V1	Motor Orientation	Shaftdown
Drive End Bearing	С3	Opp Drive End Bearing	СЗ
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	878 mm	Frame Length	370 mm
Shaft Diameter	55 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0220000613	Connection Drawing	8442000085

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$U \Delta / Y \qquad f$	Р	Р	I	n	Т	IE		% EFF a	t load	4	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]
400 Δ 50	37	50	64.2	2953	120.57	IE2	-	92.5	92.5	92.2	0.9	0.88	0.81	6.5	2.0	3.1
Motor type			SCA				Der	gree of	protecti	on				IP 55		
Enclosure			TEFC					ounting						IM V1		
Frame Material			Cast Iro	on				oling me						IC 411		
Frame size			200L					•	ght - ap	orox.				286		kg
Duty			S1						ht - app					316		kg
Voltage variation *			± 10%	6				otor iner						0.1867		kgm ²
Frequency variation *			± 5%				Loa	ad inerti	а				Cust	omer to Provide	е	
Combined variation *			10%				Vib	ration l	evel					2.2		mm/s
Design			N				No	ise level	(1mete	er distar	nce fron	n motor)	77		dB(A)
Service factor			1.0				No	. of star	ts hot/c	old/Equ	ally spr	ead		2/3/4		
Insulation class			F				Sta	rting m	ethod					DOL		
Ambient temperature	2		-20 to +	40		°C	Тур	be of co	upling					Direct		
Temperature rise (by	resistanc	e)	80 [Class	s B]		К	LR	withsta	nd time	(hot/co	ld)			25/12		S
Altitude above sea lev	/el		1000			meter	Dir	ection o	of rotatio	on			B	Bi-directional		
Hazardous area classi	fication		NA				Sta	ndard r	otation				Clo	ckwise form DE		
Zone classifica	ation		NA				Pai	nt shad	e					RAL 5014		
Gas group			NA				Acc	cessorie	s							
Temperature	class		NA					Acc	cessory ·	- 1				PTC 150°C		
Rotor type		Alı	uminum D	Die cast				Acc	cessory -	- 2				-		
Bearing type		A	nti-frictio	n ball				Acc	cessory ·	- 3				-		
DE / NDE bearing		63	12 C3 / 6	212 C3			Ter	minal b	ox posit	ion				ТОР		
Lubrication method			Regrease	able			Ma	iximum	cable siz	ze/cond	uit size	1R	x 3C x !	50mm²/2 x M40) x 1.5	
Type of grease		CHEVRC	ON SRI-2 c	or Equival	ent		Aux	kiliary te	erminal	box			Avail	able on Reques	t	

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

T_K/T_N - Breakdown Torque / Rated Torque

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

* Voltage, Frequency and combine variation are as per IEC60034-1

Technical data	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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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	Δ	50	37	50	64.2	2953	12.29	120.57	IE2	40	S1	1000	0.1867	286

Motor Load Data

Motor Speed Torque Data

r/min

А

ри

Load Point

Speed

Current

Torque

18.1	23.9				
	25.9	36.1	49.6	64.2	
0.0	29.8	59.8	90.0	120.6	
3000	2989	2978	2966	2953	
0.0	88.5	92.2	92.5	92.5	
8.6	63.7	81.0	88.0	90.0	
	3000 0.0	3000 2989 0.0 88.5	3000 2989 2978 0.0 88.5 92.2	3000 2989 2978 2966 0.0 88.5 92.2 92.5	3000 2989 2978 2966 2953 0.0 88.5 92.2 92.5 92.5

P-Up

600

375.3

1.7

BD

2705

255.9

3.1

Rated

2953

64.2

1

NL

3000

18.1

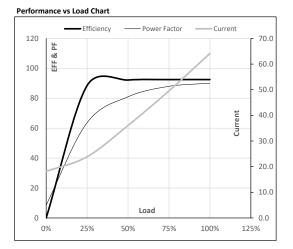
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LR

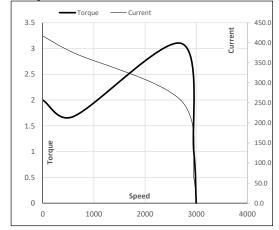
0

417.0

2.0



Starting Characteristics Chart



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

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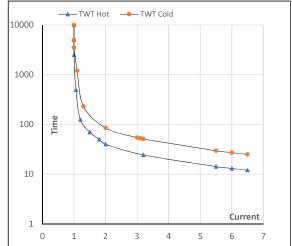
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Enclosure	U	Δ / Y	f	Р	Р	Т	n	т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	37	50	64.2	2953	12.29	120.57	IE2	40	S1	1000	0.1867	286

Motor Speed Torque Data

Load		FL	I_1	I ₂	I_3	I_4	I ₅	LR
TWT Hot	s	10000	40	25	20	16	14	12
TWT Cold	s	10000	52	51	40	32	30	25
Current	pu	1	2	3	4	5	5.5	6.5

Thermal Characteristics Chart



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

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