### **PRODUCT INFORMATION PACKET**

Model No: SCA0371A4141GAA001 Catalog No: SCA0371A4141GAA001 TerraMAX® Cast Iron Motor, 50 HP, 3 Ph, 50 Hz, 380/660 V, 3000 RPM, 200L Frame, TEFC



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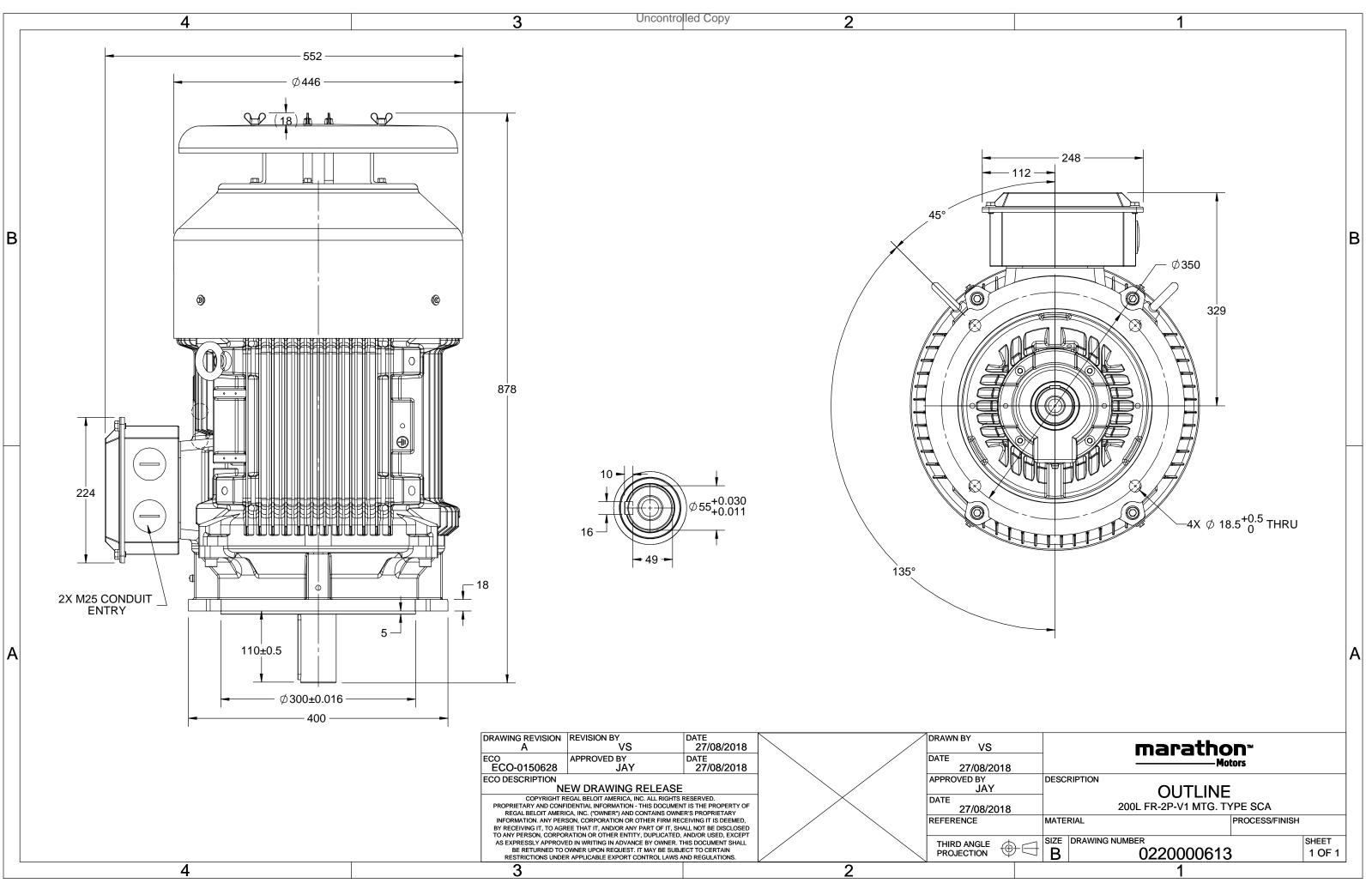
### Nameplate Specifications

Output HP	50 Hp	Output KW	37.0 kW
Frequency	50 Hz	Voltage	380/660 V
Current	67.5 A	Speed	2953 rpm
Service Factor	1	Phase	3
Efficiency	92.5 %	Power Factor	0.90
Duty	S1	Insulation Class	F
Frame	200L	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	200L 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 6312	Ambient Temperature Opp Drive End Bearing Size	40 °C 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	СЗ	Opp Drive End Bearing	С3
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		
Connection Drawing	8442000085	Outline Drawing	0220000613

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TOP 1R x 3C x 50mm²/2 x M40 x 1.5

Available on Request

### Model No. SCA0371A4141GAA001

U	Δ/Υ	f	Р	Р		n	т	IE	c	% FFF at	tload	4	PI	= at lo	had	I <sub>A</sub> /I <sub>N</sub>	T <sub>A</sub> /T <sub>N</sub>	Τ <sub>κ</sub> /Τ <sub>N</sub>
(V)	Conn	-	[kW]	' [hp]	' [A]	[RPM]	[Nm]		, 5/4FL	FL		1/2FL			1/2FL	[pu]	[pu]	[pu]
380/660		50	37	50	67.5		120.57	IE2	- 5/41	92.5	92.5	92.2	0.9	0.88	0.81	6.5	2.0	<u>[pu]</u> 3.1
500,000	-	50	57	50	07.5	2555	120.57	162		52.5	52.5	52.2	0.5	0.00	0.01	0.5	2.0	5.1
Motor typ	pe				SCA				Deg	gree of p	orotecti	on				IP 55		
Enclosure	9				TEFC				Mounting type						IM V1			
Frame Ma	aterial				Cast Irc	on			Cooling method							IC 411		
Frame siz	e				200L				Motor weight - approx.							286		kg
Duty					S1				Gross weight - approx.						316		kg	
Voltage v	ariatior	า *			± 10%	, )			Mo	tor iner	tia					0.1867		kgm <sup>2</sup>
Frequenc	y variat	tion *			± 5%				Loa	d inerti	а				Custo	Customer to Provide		
Combined	d variat	ion *			10%				Vib	ration le	evel					2.2		mm/s
Design					Ν				Noi	se level	(1mete	er distar	nce fror	n motoi	-)	) 77		
Service fa	ictor				1.0				No.	of star	ts hot/c	old/Equ	ally spr	ead		2/3/4		
Insulatior	n class				F				Sta	rting me	ethod					DOL		
Ambient	temper	ature			-20 to +	40		°C	Тур	e of cou	upling					Direct		
Temperat	ture rise	e (by re	esistance	e)	80 [ Class	6 B ]		К	LR ۱	withstar	nd time	(hot/co	ld)			25/12		S
Altitude a	above s	ea leve	el		1000			meter	Dire	ection o	f rotatio	on			В	i-directional		
Hazardou	is area	classifi	cation		NA				Sta	ndard ro	otation				Cloc	ckwise form	DE	
	Zone	classifi	cation		NA				Pair	nt shade	e					RAL 5014		
	Gas gi	roup			NA				Acc	essories	5							

Gas group	NA	Accessories
Temperature class	s NA	Accessory - 1
Rotor type	Aluminum Die cast	Accessory - 2
Bearing type	Anti-friction ball	Accessory - 3
DE / NDE bearing	6312 C3 / 6212 C3	Terminal box position
Lubrication method	Regreasable	Maximum cable size/conduit
Type of grease	CHEVRON SRI-2 or Equivalent	Auxiliary terminal box

 $I_A/I_N$  - 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

size

### 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	-	GB 18613-2012 Grade 2	-	-	-	IEC: 60034-30



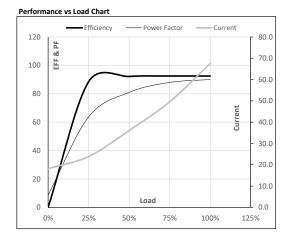
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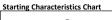
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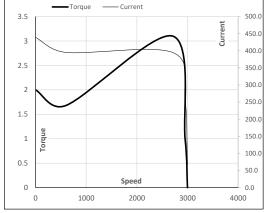
Enclosure	U	$\Delta / Y$	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	380/660	Δ	50	37	50	67.5	2953	12.29	120.57	IE2	40	S1	1000	0.1867	286

Motor Load Data	а						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	18.1	23.9	36.1	49.6	67.5	
Torque	Nm	0.0	29.8	59.8	90.0	120.6	
Speed	r/min	3000	2989	2978	2966	2953	
Efficiency	%	0.0	88.5	92.2	92.5	92.5	
Power Factor	%	8.6	63.7	81.0	88.0	90.0	



Motor Speed Torque Data												
Load Point		LR	P-Up	BD	Rated	NL						
Speed	r/min	0	600	2705	2953	3000						
Current	А	438.9	395.0	255.9	67.5	18.1						
Torque	pu	2.0	1.7	3.1	1	0						





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

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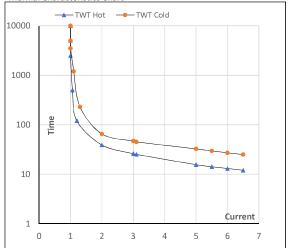
Model No. SCA0371A4141GAA001

Enclosure	$U = \Delta / 2$	ұ т	P	Р		n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
(	(V) Con	n [Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC 380	80/660 Δ	50	37	50	67.5	2953	12.29	120.57	IE2	40	S1	1000	0.1867	286

#### Motor Speed Torque Data

Load		FL	$I_1$	$I_2$	l <sub>3</sub>	$I_4$	ا5	LR
TWT Hot	s	10000	39	26	20	16	14	12
TWT Cold	s	10000	65	47	40	33	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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