PRODUCT INFORMATION PACKET

Model No: SCA0372A1141GAA001 Catalog No: SCA0372A1141GAA001 TerraMAX® Cast Iron Motor, 50 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 225S Frame, TEFC



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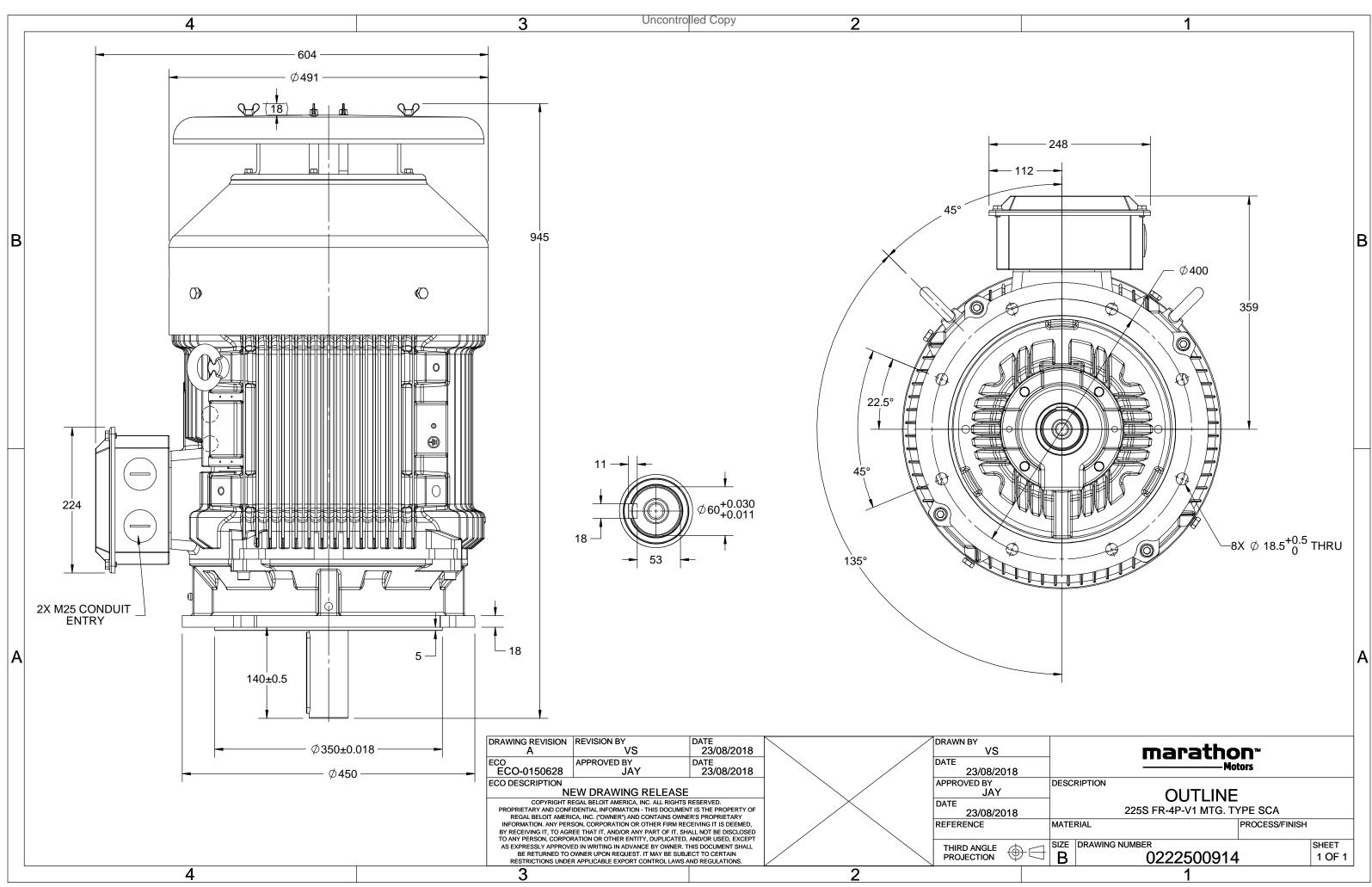
Nameplate Specifications

Output HP	50 Hp	Output KW	37.0 kW
Frequency	50 Hz	Voltage	400 V
Current	66.2 A	Speed	1477 rpm
Service Factor	1	Phase	3
Efficiency	92.7 %	Power Factor	0.87
Duty	S1	Insulation Class	F
Frame	225S	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	225S No Protection	Enclosure Ambient Temperature	40 °C
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection Drive End Bearing Size	No Protection 6313	Ambient Temperature Opp Drive End Bearing Size	40 °C 6213

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	V1	Motor Orientation	Shaftdown
Drive End Bearing	C3	Opp Drive End Bearing	C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	945 mm	Frame Length	400 mm
Shaft Diameter	60 mm	Shaft Extension	140 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0222500914

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$U \Delta / Y f P$	Р	I	n	Т	IE		% EFF a	t load	4	PF	at lo	bad	I _A /I _N	T_A/T_N	Τ _κ /Τ _Ν
(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	66.2	1477	241.16	IE2	-	92.7	92.7	93.6	0.87	0.84	0.76	6.2	2.0	2.7
Motor type		SCA				De	gree of	protecti	on				IP 55		
Enclosure		TEFC					ounting						IM V1		
Frame Material		Cast Ire	on			Co	oling me	ethod					IC 411		
Frame size		2255				Мс	otor wei	ght - ap	prox.				349		k
Duty		S1				Gro	oss weig	sht - app	rox.				379		k
Voltage variation *		± 10%	b b			Mc	otor iner	tia					0.5062		kgm
Frequency variation *		± 5%				Loa	ad inerti	а				Cust	omer to Provid	e	
Combined variation *		10%				Vib	oration l	evel					2.2		mm/s
Design		Ν				No	ise leve	(1mete	er distar	nce from	n motor	·)	69		dB(A
Service factor		1.0				No	. of star	ts hot/c	old/Equ	ally spre	ead		2/3/4		
Insulation class		F				Sta	rting m	ethod					DOL		
Ambient temperature		-20 to +	40		°C	Тур	be of co	upling					Direct		
Temperature rise (by resistar	ice)	80 [Clas	s B]		К	LR	withsta	nd time	(hot/co	ld)			30/15		:
Altitude above sea level		1000			meter	Dir	ection c	of rotatio	on			E	Bi-directional		
Hazardous area classification		NA				Sta	ndard r	otation				Clo	ckwise form DE		
Zone classification		NA				Pai	nt shad	e					RAL 5014		
Gas group		NA				Aco	cessorie	S							
Temperature class		NA					Aco	cessory -	- 1				PTC 150°C		
Rotor type	Alı	uminum [Die cast				Aco	cessory -	- 2				-		
Bearing type	A	nti-frictic	n ball				Aco	cessory -	- 3				-		
DE / NDE bearing	63	13 C3 / 6	213 C3			Ter	rminal b	ox posit	ion				TOP		
Lubrication method		Regrease	able			Ma	iximum	cable siz	ze/cond	uit size	1R	R x 3C x !	50mm²/2 x M4) x 1.5	
Type of grease	CHEVRC	ON SRI-2 o	or Equival	ent		Au	xiliary te	erminal	box			Avail	able on Reques	t	

 I_{A}/I_{N} - Locked Rotor Current / Rated Current T_{A}/T_{N} - Locked Rotor Torque / Rated Torque

T_K/T_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	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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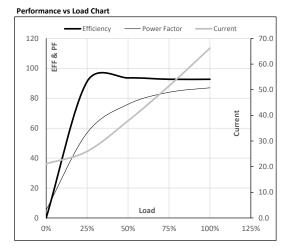
Model No. SCA0372A1141GAA001

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	66.2	1477	24.59	241.16	IE2	40	S1	1000	0.5062	349

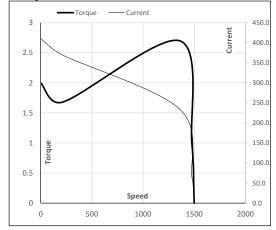
Motor Load Data

Motor Speed Torque Data

26.0	37.9	51.4	66.2	
			00.2	
59.6	119.6	180.1	241.2	
1495	1489	1483	1477	
91.2	93.6	92.7	92.7	
56.9	76.0	84.0	87.0	
	1495 91.2	1495 1489 91.2 93.6	1495 1489 1483 91.2 93.6 92.7	1495 1489 1483 1477 91.2 93.6 92.7 92.7



Starting Characteristics Chart



P-Up BD Rated NL LR Load Point Speed r/min 0 214 1359 1477 1500 Current А 410.6 369.5 234.6 66.2 21.1 Torque ри 2.0 1.7 2.7 1 0

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

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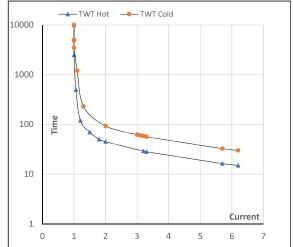
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Enclosure	U	Δ / Y	f	Р	Р	I.	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
((V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC 4	400	Δ	50	37	50	66.2	1477	24.59	241.16	IE2	40	S1	1000	0.5062	349

Motor Speed Torque Data

Load		FL	I_1	l ₂	I ₃	I_4	l ₅	LR
TWT Hot	s	10000	45	36	27	25	20	15
TWT Cold	s	10000	60	59	50	45	40	30
Current	pu	1	2	3	4	5	5.5	6.2

Thermal Characteristics Chart



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

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