PRODUCT INFORMATION PACKET



Model No: SCA0372A1111GAA001 Catalog No: SCA0372A1111GAA001

TerraMAX® Cast Iron Motor, 50 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 225S Frame, TEFC





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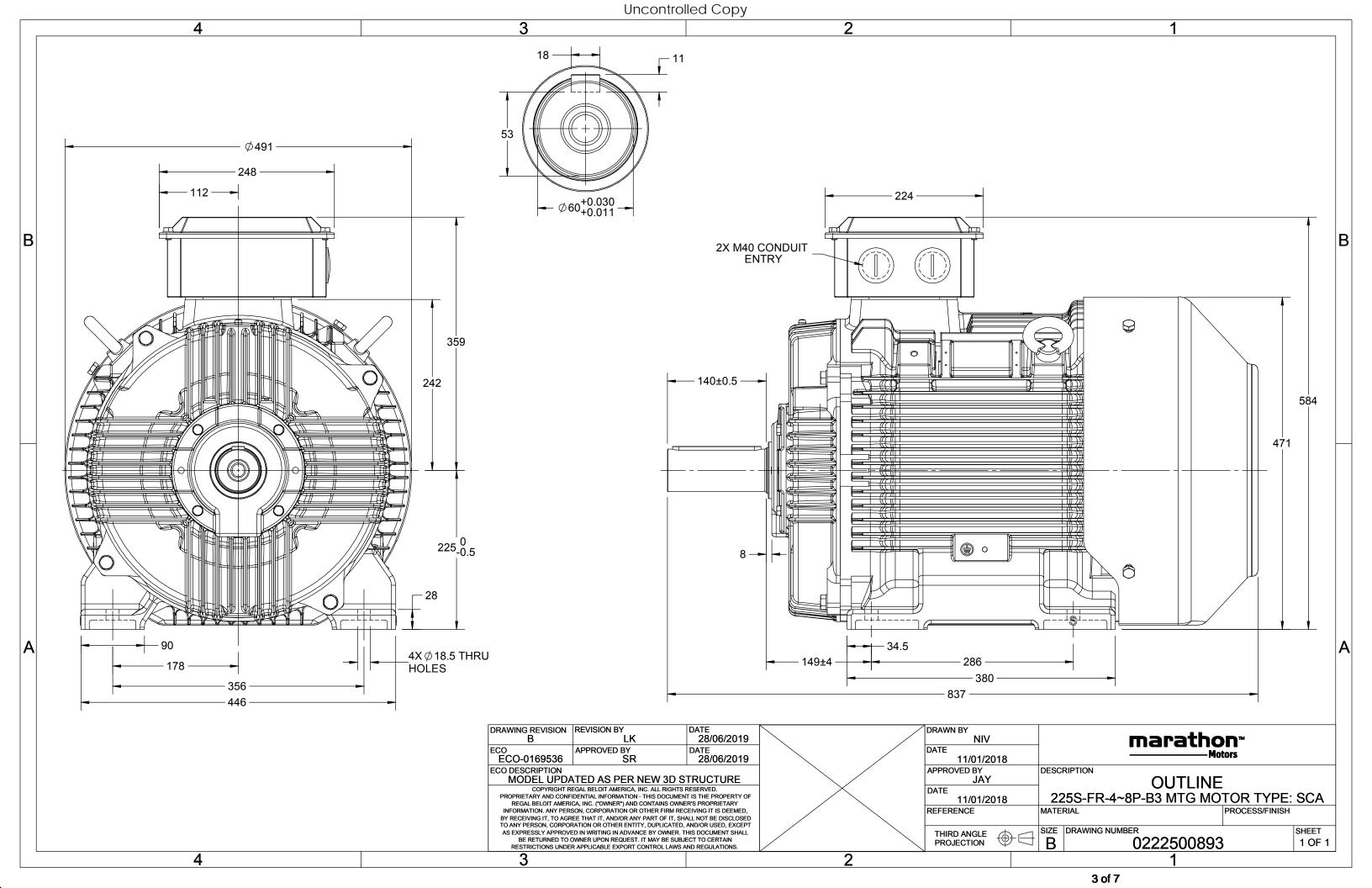
Nameplate Specifications

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	225\$	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6313	Opp Drive End Bearing Size	6213
UL	No	CSA	No
CE	Yes	IP Code	55

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	В3	Motor Orientation	Horizontal
Drive End Bearing	СЗ	Opp Drive End Bearing	СЗ
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	837 mm	Frame Length	400 mm
Shaft Diameter	60 mm	Shaft Extension	140 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0222500893

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DRAWING REVISION	REVISION BY	DATE
Α	SN	13/01/2017
ECO	APPROVED BY	DATE
ECO-0116390	SBD	13/01/2017
ECO DESCRIPTION		

NEW DRAWING RELEASE

GEOM	ENTRIC TOLE	RANCE
	>0~6	±0.1
LINEAR DIM	>6~30	±0.2
	>30~120	±0.3



NOTES:

- 1.
- 2.
- PRESSURE-SENSITIVE ADHESIVE COATED PAPER ON THE BACK OF SELF-ADHESIVE. AT THE END OF YELLOW, WORDS, SYMBOLS, LETTERS ARE BLACK, BORDER IS BLACK. THE TOLERANCE OF THE LINEAR SIZE OF THE TOLERANCE WITHOUT THE TOLERANCE 3. BY THE TABLE.

8WD.442.2017







Model No. SCA0372A1111GAA001

U	Δ/Υ	f	Р	Р	1	n	Т	IE	ç	% EFF a	t load	t	PF	at lo	ad	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	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	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	225S	
Duty	S1	
Voltage variation *	± 10%	
Frequency variation *	± 5%	
Combined variation *	10%	
Design	N	
Service factor	1.0	
Insulation class	F	
Ambient temperature	-20 to +40	°C
Temperature rise (by resistan	ce) 80 [Class B]	K
Altitude above sea level	1000	meter
Hazardous area classification	NA	
Zone classification	NA	
Gas group	NA	
Temperature class	NA	
Rotor type	Aluminum Die cast	
Bearing type	Anti-friction ball	
DE / NDE bearing	6313 C3 / 6213 C3	
Lubrication method	Regreasable	
Type of grease	CHEVRON SRI-2 or Equivalent	

IP 55	
IM B3	
IC 411	
335	kg
365	kg
0.5062	kgm ²
Customer to Provide	
2.2	mm/s
69	dB(A)
2/3/4	
DOL	
Direct	
30/15	S
Bi-directional	
Clockwise form DE	
RAL 5014	
PTC 150°C	
-	
-	
TOP	
x 3C x 50mm²/2 x M40 x 1.5	
Available on Request	
	IM B3 IC 411 335 365 0.5062 Customer to Provide 2.2 69 2/3/4 DOL Direct 30/15 Bi-directional Clockwise form DE RAL 5014 PTC 150°C - TOP x 3C x 50mm²/2 x M40 x 1.5

 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

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

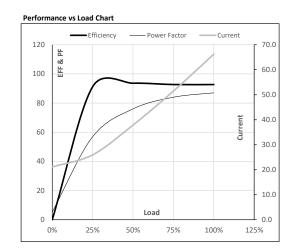




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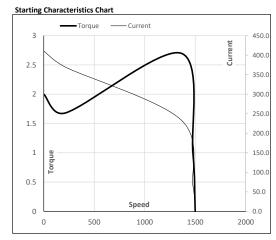
Enclosure	U	Δ/Υ	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	37	50	66.2	1477	24.59	241.16	IE2	40	S1	1000	0.5062	335

Motor Load Dat	ta						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	21.1	26.0	37.9	51.4	66.2	
Torque	Nm	0.0	59.6	119.6	180.1	241.2	
Speed	r/min	1500	1495	1489	1483	1477	
Efficiency	%	0.0	91.2	93.6	92.7	92.7	
Power Factor	%	5.3	56.9	76.0	84.0	87.0	



Motor Speed Torque Data

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



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

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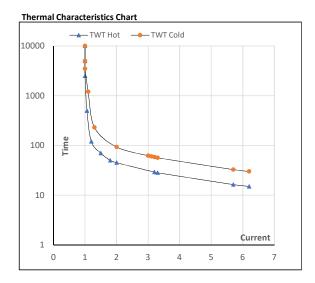




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(V) Conn [Hz] [kW] [hp] [A] [rpm] [kgm] [Nm] Class °C] [m] [kg-m²] TFFC 400 Δ 50 37 50 66.2 1477 24.59 241 16 IE2 40 S1 1000 0 5062	Weight	Inertia	Elevation	Duty	Amb	IE	T	Т	n	- 1	Р	Р	f	Δ / Y	U	Enclosure
TEFC 400 Δ 50 37 50 66.2 1477 24.59 241.16 IE2 40 S1 1000 0.5062	[kg]	[kg-m ²]	[m]			Class	[Nm]	[kgm]	[rpm]	[A]	[hp]	[kW]	[Hz]	Conn	(V)	
1 12 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	335	0.5062	1000	S1	40	IE2	241.16	24.59	1477	66.2	50	37	50	Δ	400	TEFC

Motor Speed Torque Data LR Load TWT Hot s 10000 45 36 25 20 15 TWT Cold s 10000 60 59 50 45 40 30 5.5 6.2 Current pu 1 4



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

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