# PRODUCT INFORMATION PACKET



Model No: SCA0372A4141GAA001 Catalog No: SCA0372A4141GAA001

TerraMAX® Cast Iron Motor, 50 HP, 3 Ph, 50 Hz, 380/660 V, 1500 RPM, 225S Frame, TEFC





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Product Information Packet: Model No: SCA0372A4141GAA001, Catalog No:SCA0372A4141GAA001 TerraMAX® Cast Iron Motor, 50 HP, 3 Ph, 50 Hz, 380/660 V, 1500 RPM, 225S Frame, TEFC



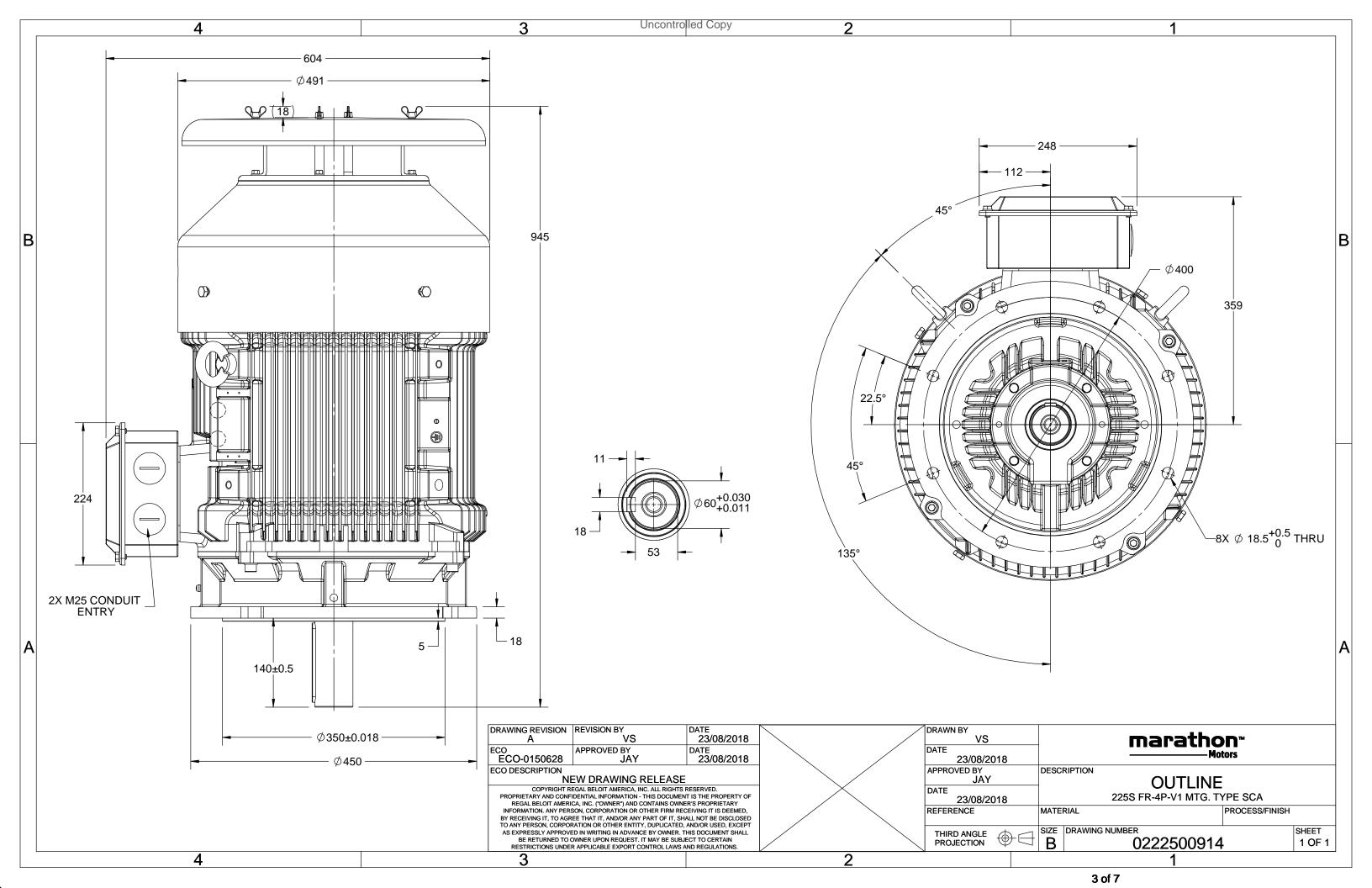
## Nameplate Specifications

Output HP	50 Hp	Output KW	37.0 kW
Frequency	50 Hz	Voltage	380/660 V
Current	69.7 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
Number of Speeds	•	Efficiency Class	IE2

# **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	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	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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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**

GEOMENTRIC TOLERANCE									
	>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. SCA0372A4141GAA001

U	Δ/Υ	f	Р	Р	I	n	Т	ΙE	9	% EFF a	t load	ł	PF	at lo	oad	I <sub>A</sub> /I <sub>N</sub>	$T_A/T_N$	$T_K/T_N$
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
380/660	Δ	50	37	50	69.7	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 resistance	e) 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	

Degree of protection	IP 55	
Mounting type	IM V1	
Cooling method	IC 411	
Motor weight - approx.	349	kg
Gross weight - approx.	379	kg
Motor inertia	0.5062	kgm²
Load inertia	Customer to Provide	
Vibration level	2.2	mm/s
Noise level ( 1meter distance from mo	tor) 69	dB(A)
No. of starts hot/cold/Equally spread	2/3/4	
Starting method	DOL	
Type of coupling	Direct	
LR withstand time (hot/cold)	30/15	S
Direction of rotation	Bi-directional	
Standard rotation	Clockwise form DE	
Paint shade	RAL 5014	
Accessories		
Accessory - 1	-	
Accessory - 2	-	
Accessory - 3	-	
Terminal box position	TOP	
Maximum cable size/conduit size	1R x 3C x 50mm <sup>2</sup> /2 x M40 x 1.5	
Auxiliary terminal box	Available on Request	

 $I_A/I_N$  - Locked Rotor Current / Rated Current  $T_A/T_N$  - Locked Rotor Torque / Rated Torque

T<sub>K</sub>/T<sub>N</sub> - 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	-	GB 18613-2012 Grade 2	-	-	-	IEC: 60034-30



 $<sup>\</sup>ensuremath{^{*}}$  Voltage, Frequency and combine variation are as per IEC60034-1

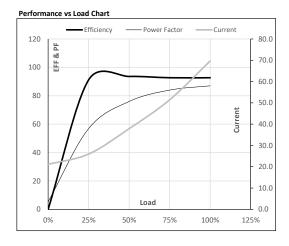




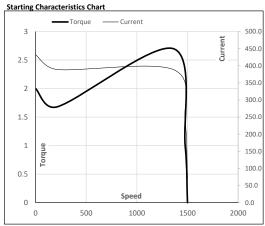
#### Model No. SCA0372A4141GAA001

Enclosure	U	Δ/Υ	f	Р	Р	I	n	Т	T	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	69.7	1477	24.59	241.16	IE2	40	S1	1000	0.5062	349

Motor Load Data	a						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	21.1	26.0	37.9	51.4	69.7	
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 T	orque Data						
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	214	1359	1477	1500	
Current	Α	432.2	389.0	234.6	69.7	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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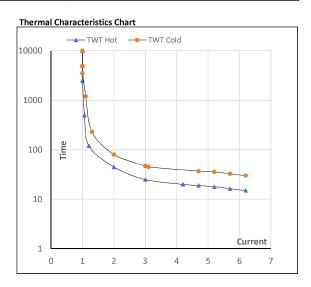




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Enclosure	U	Δ/Υ	f	Р	Р	ı	n	Т	T	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
TEFC	380/66	50 Δ	50	37	50	69.7	1477	24.59	241.16	IE2	40	S1	1000	0.5062	349

Motor Speed Torque Data								
Load		FL	$I_1$	$I_2$	l <sub>3</sub>	$I_4$	I <sub>5</sub>	LR
TWT Hot	s	10000	45	25	21	18	17	15
TWT Cold	s	10000	80	47	46	36	34	30
Current	pu	1	2	3	4	5	5.5	6.2
Current	pu	1	2	3	4	5	5.5	



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

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