# PRODUCT INFORMATION PACKET



Model No: SCA2502A3113GAAD01 Catalog No: SCA2502A3113GAAD01

TerraMAX® Cast Iron Motor, 335 HP, 3 Ph, 50 Hz, 415 V, 1500 RPM, 355M Frame, TEFC



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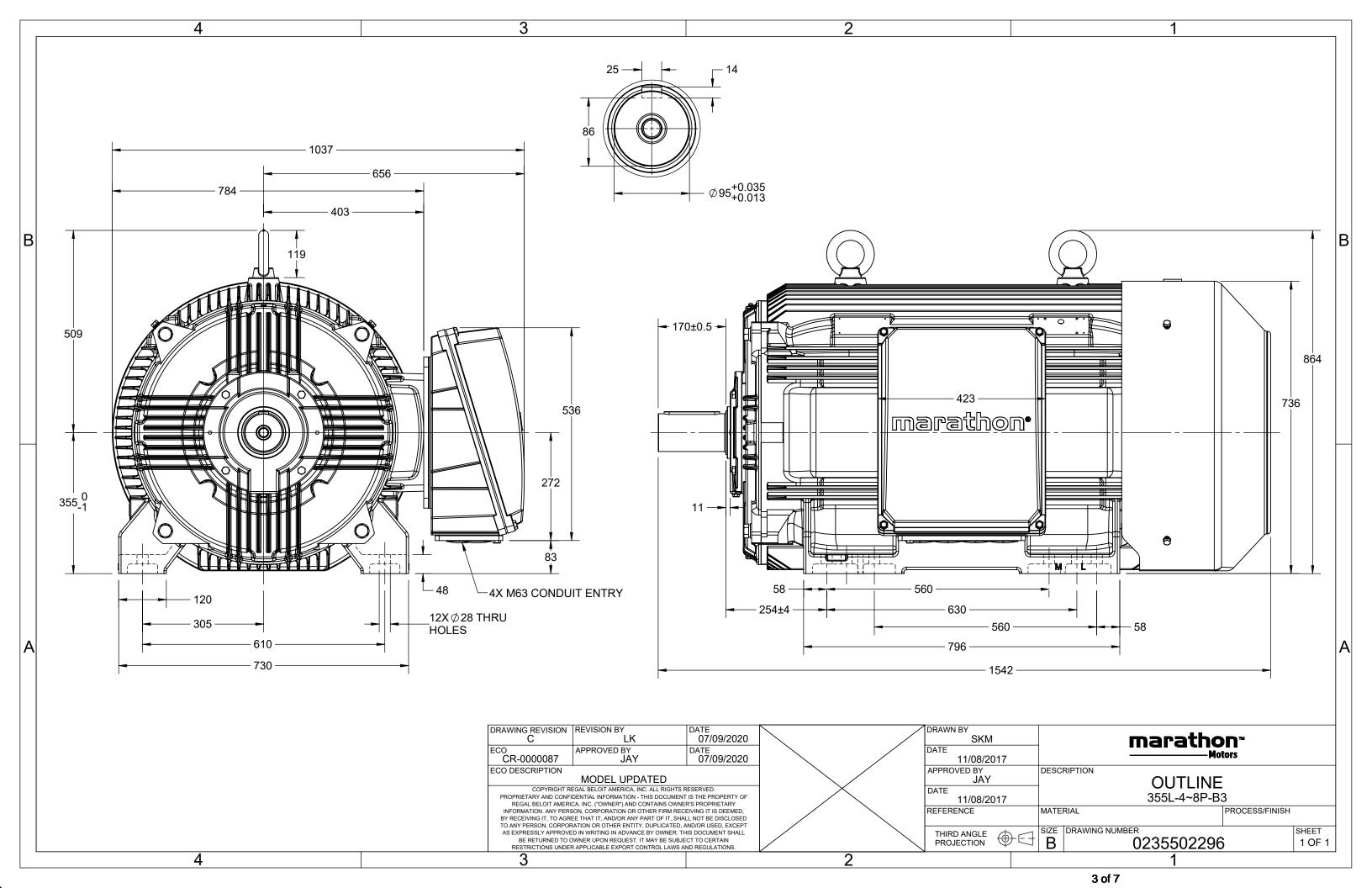
# Nameplate Specifications

335 Hp	Output KW	250.0 kW
50 Hz	Voltage	415 V
412.5 A	Speed	1491 rpm
1	Phase	3
95.1 %	Power Factor	0.89
S1	Insulation Class	F
355M	Enclosure	Totally Enclosed Fan Cooled
No Protection	Ambient Temperature	50 °C
6322	Opp Drive End Bearing Size	6322
No	CSA	No
Yes	IP Code	55
1	Efficiency Class	IE2
	50 Hz 412.5 A 1 95.1 % S1 355M No Protection 6322 No	50 Hz Voltage  412.5 A Speed  1 Phase  95.1 % Power Factor  \$1 Insulation Class  355M Enclosure  No Protection Ambient Temperature  6322 Opp Drive End Bearing Size  No CSA  Yes IP Code

# **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	С3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1542 mm	Frame Length	1010 mm
Shaft Diameter	95 mm	Shaft Extension	170 mm
Assembly/Box Mounting	SIDE		
Connection Drawing	8442000085	Outline Drawing	0235502296

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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.	SCA2502A3113GAAD01

U	Δ/Υ	f	Р	Р	1	n	Т	IE	9	6 EFF a	t load	l	PF	at lo	ad	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]
415	Δ	50	250	335	410.9	1491	1600.5	IE2	-	95.1	95.1	95.7	0.89	0.87	0.80	6.4	2.0	2.7

Motor type	SCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	355M	
Duty	S1	
Voltage variation *	± 10%	
Frequency variation *	± 5%	
Combined variation *	10%	
Design	N	
Service factor	1.0	
Insulation class	F	
Ambient temperature	-20 to +50	°C
Temperature rise (by resistance	e) 70 [ 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	6322 C3 / 6322 C3	
Lubrication method	Regreasable	
Type of grease	Shell Gadus S5 V100 or Equivalent	
Type of grease		

Degree of protection	IP 55	
Mounting type	IM B3	
Cooling method	IC 411	
Motor weight - approx.	1729	kg
Gross weight - approx.	1774	kg
Motor inertia	8.4434	kgm <sup>2</sup>
Load inertia	Customer to Provide	
Vibration level	2.8	mm/s
Noise level ( 1meter distance from mo	otor) 82	dB(A)
No. of starts hot/cold/Equally spread	2/3/4	
Starting method	DOL	
Type of coupling	Direct	
LR withstand time (hot/cold)	20/40	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	RHS	
Maximum cable size/conduit size	1R x 3C x 300mm²/4 x M63 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

\* 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	-	-	IS 12615 : 2018	-	-	-

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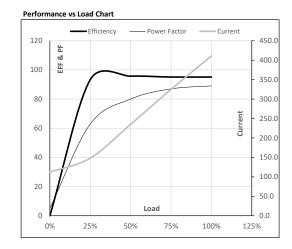




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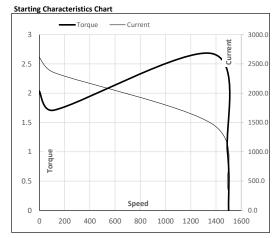
Enclosure	U	Δ/Υ	f	Р	Р	1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	415	Δ	50	250	335	410.9	1491	163.20	1600.49	IE2	50	S1	1000	8.4434	1729

Motor Load Dat	ta						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	112.0	148.1	235.1	324.9	410.9	
Torque	Nm	0.0	398.2	797.6	1198.3	1600.5	
Speed	r/min	1500	1498	1495	1493	1491	
Efficiency	%	0.0	93.3	95.7	95.1	95.1	
Power Factor	%	5.1	62.9	80.0	87.0	89.0	



#### Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	115	1372	1491	1500	
Current	Α	2615.0	2353.5	1473.0	410.9	112.0	
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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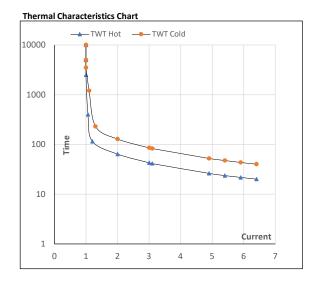




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Enclosure	U	Δ/Υ	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
TEFC	415	Δ	50	250	335	410.9	1491	163.20	1600.49	IE2	50	S1	1000	8.4434	1729

#### Motor Speed Torque Data Load LR TWT Hot s 10000 64 43 35 25 23 20 TWT Cold s 10000 128 85 60 51 46 40 5.5 6.4\_\_\_ Current pu 1 2 4



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

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