# PRODUCT INFORMATION PACKET



Model No: SCA0302A1141GAA001 Catalog No: SCA0302A1141GAA001

TerraMAX® Cast Iron Motor, 40 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 200L Frame, TEFC



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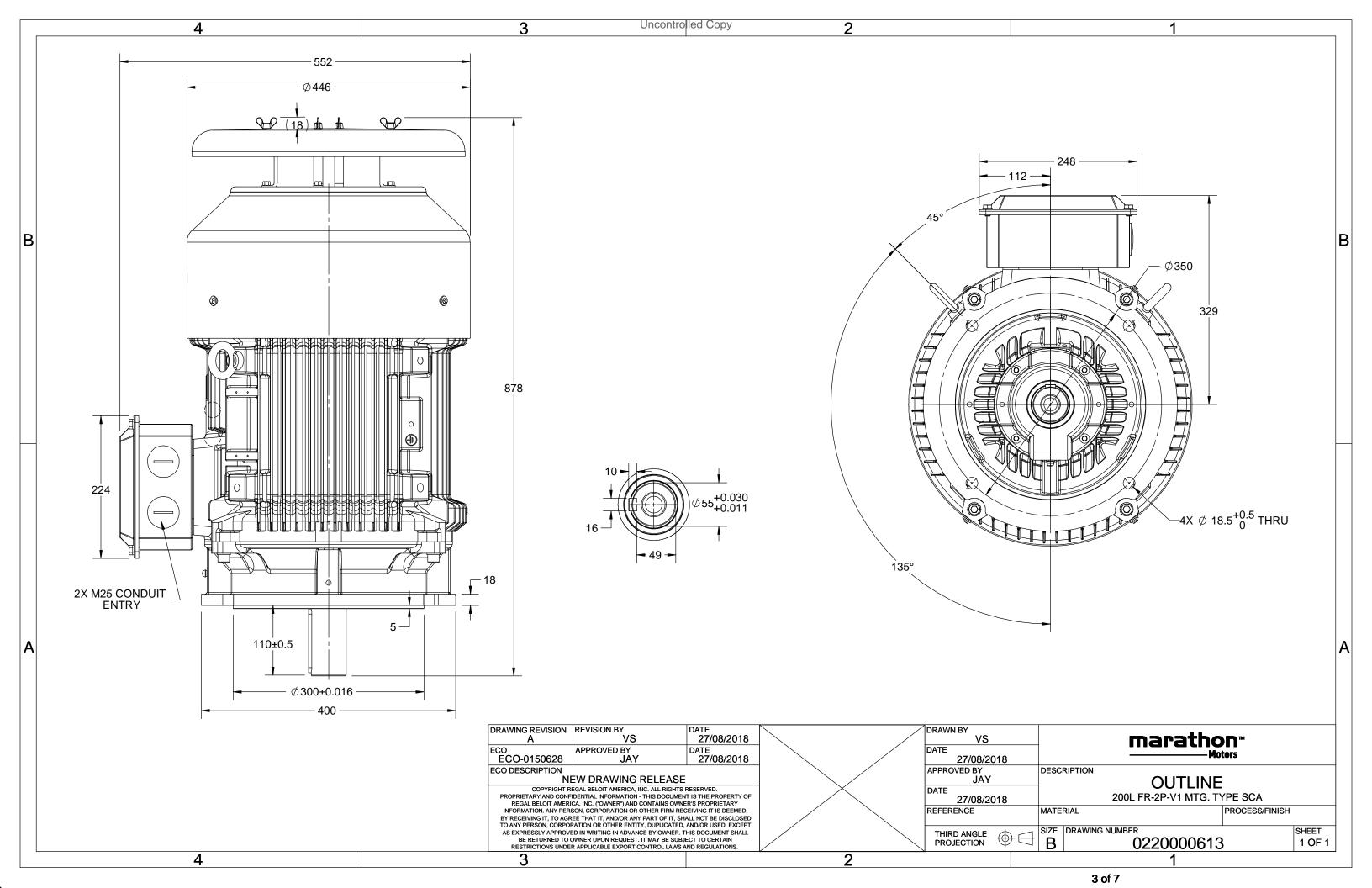
# Nameplate Specifications

40 Hp	Output KW	30.0 kW
50 Hz	Voltage	400 V
55.2 A	Speed	1471 rpm
1	Phase	3
92.3 %	Power Factor	0.85
S1	Insulation Class	F
200L	Enclosure	Totally Enclosed Fan Cooled
No Protection	Ambient Temperature	40 °C
6312	Opp Drive End Bearing Size	6212
No	CSA	No
Yes	IP Code	55
1	Efficiency Class	IE2
	50 Hz 55.2 A 1 92.3 % S1 200L No Protection 6312 No	50 Hz Voltage  55.2 A Speed  1 Phase  92.3 % Power Factor  S1 Insulation Class  200L Enclosure  No Protection Ambient Temperature  6312 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	V1	Motor Orientation	Shaftdown
Drive End Bearing	СЗ	Opp Drive End Bearing	СЗ
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		
Outline Drawing	0220000613	Connection Drawing	8442000085

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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. SCA0302A1141GAA001

U	Δ/Υ	f	Р	Р	ı	n	Т	IE	IE % EFF at load			PF at load			$I_A/I_N$	$T_A/T_N$	$T_K/T_N$	
(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	30	40	55.2	1471	193.61	IE2	-	92.3	92.3	93	0.85	0.82	0.72	6.2	2.2	2.8

Motor type	SCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	200L	
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	6312 C3 / 6212 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.	283	kg
Gross weight - approx.	313	kg
Motor inertia	0.2616	kgm²
Load inertia	<b>Customer to Provide</b>	
Vibration level	2.2	mm/s
Noise level ( 1meter distance from mo	tor) 66	dB(A)
No. of starts hot/cold/Equally spread	2/3/4	
Starting method	DOL	
Type of coupling	Direct	
LR withstand time (hot/cold)	25/12	s
Direction of rotation	<b>Bi-directional</b>	
Standard rotation	Clockwise form DE	
Paint shade	RAL 5014	
Accessories		
Accessory - 1	PTC 150°C	
Accessory - 2	-	
Accessory - 3	-	
Terminal box position	TOP	
Maximum cable size/conduit size	1R x 3C x 50mm²/2 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	IEC: 60034-30	-	-	AS/NZ 1359:5:2004	-	IEC: 60034-30

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<sup>\*</sup> Voltage, Frequency and combine variation are as per IEC60034-1

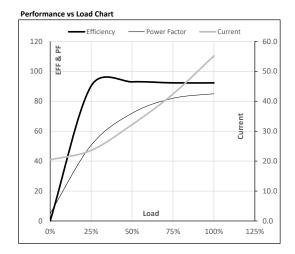




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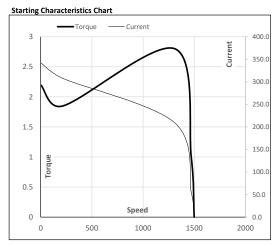
Enclosure	U	Δ/Υ	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	400	Δ	50	30	40	55.2	1471	19.74	193.61	IE2	40	S1	1000	0.2616	283

Motor Load D	ata						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	20.4	23.6	32.2	42.4	55.2	
Torque	Nm	0.0	47.7	95.8	144.4	193.6	
Speed	r/min	1500	1493	1487	1480	1471	
Efficiency	%	0.0	90.2	93.0	92.3	92.3	
Power Factor	%	5.0	50.6	72.0	82.0	85.0	



#### Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	214	1311	1471	1500
Current	Α	342.2	308.0	209.0	55.2	20.4
Torque	pu	2.2	1.8	2.8	1	0



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

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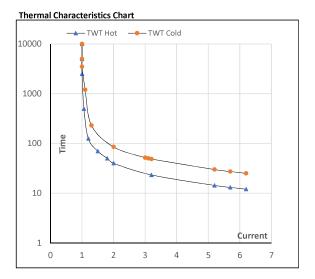




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Enclosure	U	Δ/Υ	f	Р	Р	ı	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
TEFC	400	Δ	50	30	40	55.2	1471	19.74	193.61	IE2	40	S1	1000	0.2616	283

Motor Speed Torque Data								
Load		FL	l <sub>1</sub>	l <sub>2</sub>	l₃	$I_4$	I <sub>5</sub>	LR
TWT Hot	s	10000	40	24	20	16	13	12
TWT Cold	s	10000	50	49	40	32	28	25
Current	pu	1	2	3	4	5	5.5	6.2



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

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