# PRODUCT INFORMATION PACKET



Model No: SCA0112A4141GAA001 Catalog No: SCA0112A4141GAA001

TerraMAX® Cast Iron Motor, 15 HP, 3 Ph, 50 Hz, 380/660 V, 1500 RPM, 160M Frame, TEFC



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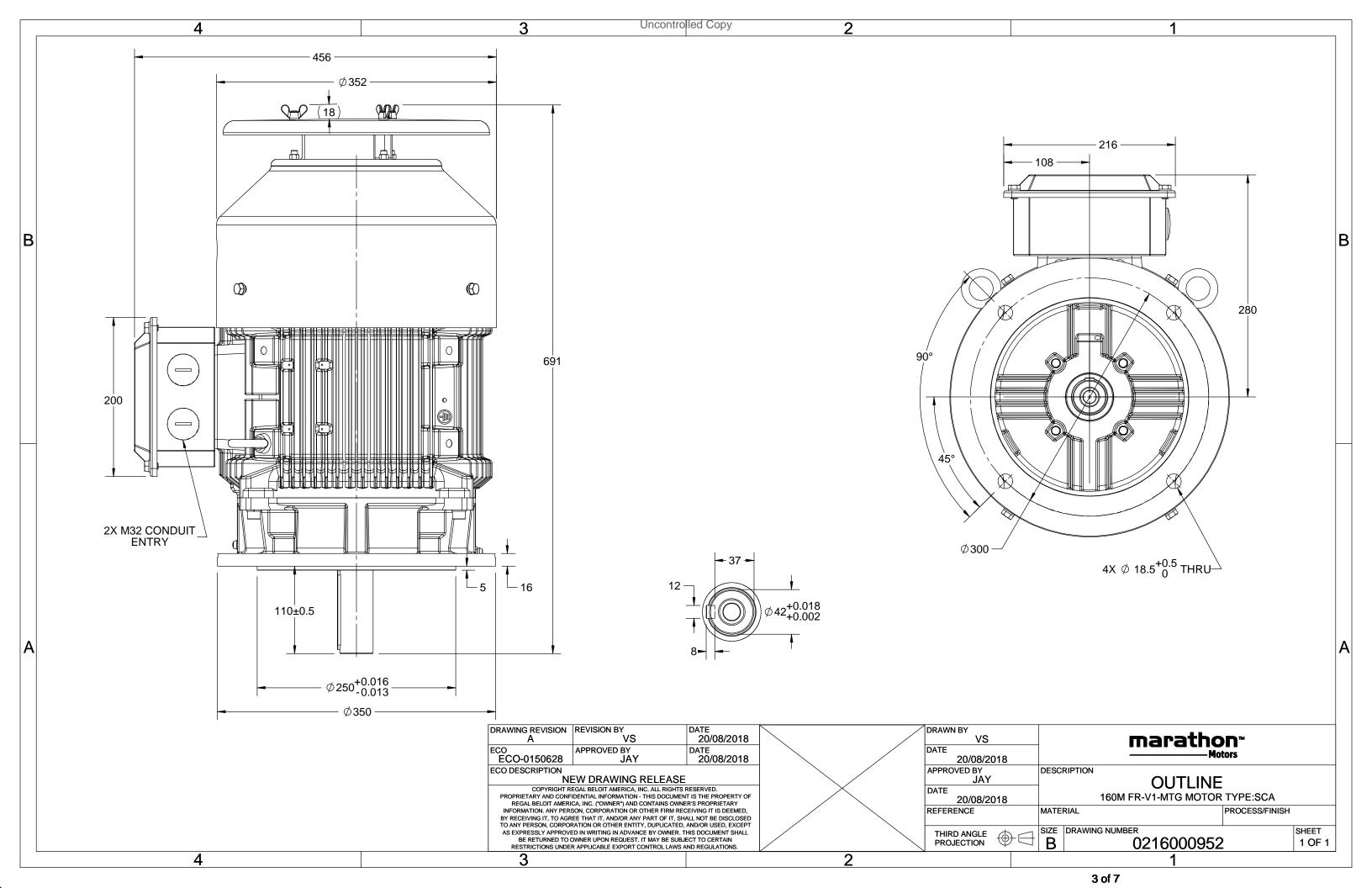
## Nameplate Specifications

Output HP	15 Hp	Output KW	11.0 kW
Frequency	50 Hz	Voltage	380/660 V
Current	22.1 A	Speed	1465 rpm
Service Factor	1	Phase	3
Efficiency	89.8 %	Power Factor	0.84
Duty	<b>S1</b>	Insulation Class	F
Frame	160M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6209
UL	No	CSA	No
CE	Yes	IP Code	55
Number of Speeds	1	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	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	691 mm	Frame Length	254 mm
Shaft Diameter	42 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0216000952	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. SCA0112A4141GAA001

U	Δ/Υ	f	Р	Р	I	n	Т	IE	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	11	15	22.1	1465	71.7	IE2	-	89.8	89.8	88.4	0.84	0.8	0.72	6.76041179	2.3	2.7

Motor type	SCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	160M	
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)	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	6309-2Z / 6209-2Z	
Lubrication method	Greased for life	
Type of grease	NA	

Degree of protection	IP 55	
Mounting type	IM V1	
Cooling method	IC 411	
Motor weight - approx.	127	kg
Gross weight - approx.	147	kg
Motor inertia	0.0900	kgm²
Load inertia	Customer to Provide	
Vibration level	2.2	mm/s
Noise level ( 1meter distance from moto	or) 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)	10/6	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 1	R x 3C x 35mm <sup>2</sup> /2 X M32 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

 $T_K/T_N$  - 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	-	GB 18613-2012 Grade 2	-	-	-	IEC: 60034-30

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

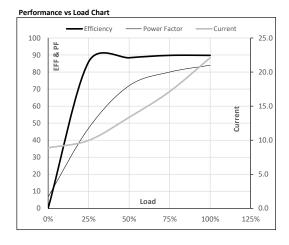




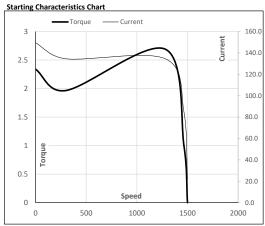
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Enclosure	U	Δ/Υ	f	Р	Р	I	n	T	T	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	380/660	Δ	50	11	15	22.1	1465	7.31	71.70	IE2	40	S1	1000	0.0900	127

Motor Load Data	a						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	8.9	10.0	13.4	17.1	22.1	
Torque	Nm	0.0	17.9	36.0	54.2	71.7	
Speed	r/min	1500	1493	1485	1478	1465	
Efficiency	%	0.0	86.0	88.4	89.8	89.8	
Power Factor	%	6.7	47.1	72.0	80.0	84.0	



Motor Speed 1	orque Data						
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	300	1281	1465	1500	
Current	Α	149.4	134.5	84.9	22.1	8.9	
Torque	pu	2.3	2.0	2.7	1	0	



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

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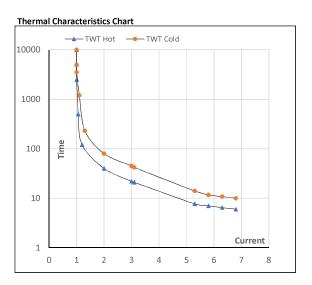




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Enclosure	U	Δ/Υ	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	380/66	50 Δ	50	11	15	22.1	1465	7.31	71.70	IE2	40	S1	1000	0.0900	127

#### Motor Speed Torque Data LR Load FL TWT Hot s 10000 6 TWT Cold s 10000 80 48 25 16 12 10 6.8 Current pu 1 5.5 4



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

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