PRODUCT INFORMATION PACKET



Model No: SCA0042A1141GAA001 Catalog No: SCA0042A1141GAA001

TerraMAX® Cast Iron Motor, 5.50 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 112M Frame, TEFC



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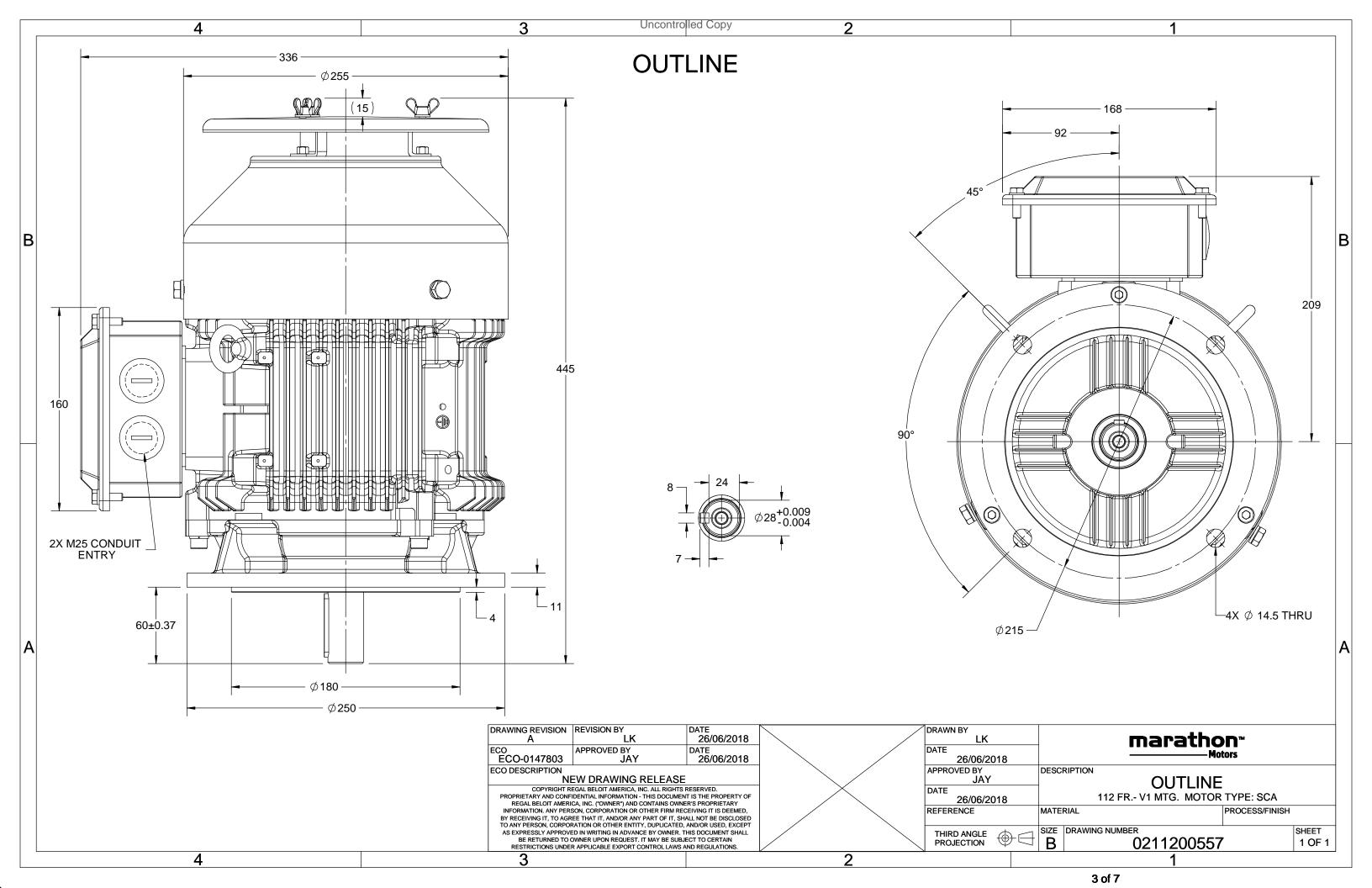
Nameplate Specifications

Output HP	5.50 Hp	Output KW	4.0 kW	
Frequency	50 Hz	Voltage	400 V	
Current	7.9 A	Speed	1450 rpm	
Service Factor	1	Phase	3	
Efficiency	86.6 %	Power Factor	0.84	
Duty	S1	Insulation Class	F	
Frame	112M	Enclosure	Totally Enclosed Fan Cooled	
Thermal Protection	No Protection	Ambient Temperature	40 °C	
Drive End Bearing Size	6306	Opp Drive End Bearing Size	6206	
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	445 mm	Frame Length	174 mm
Shaft Diameter	28 mm	Shaft Extension	60 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0211200557

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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. SCA0042A1141GAA001

U	Δ/Υ	f	Р	Р	I	n	T	IE	9	% 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	4	5.5	7.9	1450	27.01	IE2	-	86.6	86.6	86.5	0.84	0.77	0.64	7.3	2.7	3.0

Motor type	SCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	112M	
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	6306-2Z / 6206-2Z	
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.	51	kg
Gross weight - approx.	54	kg
Motor inertia	0.0145	kgm ²
Load inertia	Customer to Provide	
Vibration level	1.6	mm/s
Noise level (1meter distance from moto	r) 61	dB(A)
No. of starts hot/cold/Equally spread	2/3/4	
Starting method	DOL	
Type of coupling	Direct	
LR withstand time (hot/cold)	15/7	S
Direction of rotation	Bi-directional	
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 1	R x 3C x 16mm ² /2 x M25 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	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

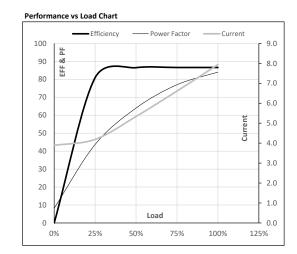




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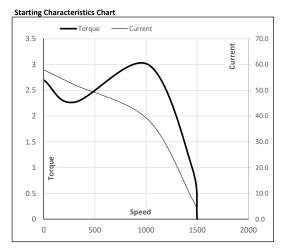
Enclosure	U	Δ/Υ	f	Р	Р	- 1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	4	5.5	7.9	1450	2.75	27.01	IE2	40	S1	1000	0.0145	51

Motor Load Data 3/4FL 5/4FL 1/4FL 1/2FL FL Load Point NL Current 3.9 4.2 5.3 6.6 7.9 Torque Nm 0.0 6.6 13.3 20.1 27.0 Speed r/min 1500 1488 1477 1464 1450 Efficiency % 0.0 80.9 86.5 86.6 86.6 77.0 Power Factor 8.2 43.7 64.0 84.0



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	300	1020	1450	1500
Current	Α	58.0	52.2	38.6	7.9	3.9
Torque	pu	2.7	2.3	3.0	1	0



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

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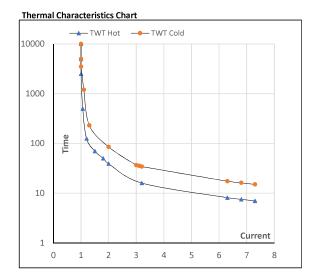




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(V) Conn [Hz] [kW] [hp] [A] [rpm] [kgm] [Nm] Class [°C] [m] [kg-m²]	[kg]	rı 23									Р	1	Т	Δ / Y	l o	Enclosure
TESC 400 V 50 4 FF 79 1450 2.75 27.01 JE2 40 S1 1000 0.0145	[rg]	[kg-m ⁻]	[m]			Class	[Nm]	[kgm]	[rpm]	[A]	[hp]	[kW]	[Hz]	Conn	(V)	
TEFC 400 1 30 4 5.5 7.3 1430 2.73 27.01 112 40 31 1000 0.0145	51	0.0145	1000	S1	40	IE2	27.01	2.75	1450	7.9	5.5	4	50	Υ	400	TEFC

Motor Speed	d Torq	ue Data						
Load		FL	l ₁	l ₂	l₃	I ₄	I ₅	LR
TWT Hot	s	10000	39	17	15	11	9	7
TWT Cold	s	10000	85	37	30	25	20	15
Current	pu	1	2	3	4	5	5.5	7.3



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

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