PRODUCT INFORMATION PACKET



Model No: SCA0041A4111GAA001 Catalog No: SCA0041A4111GAA001

TerraMAX® Cast Iron Motor, 5.50 HP, 3 Ph, 50 Hz, 380/660 V, 3000 RPM, 112M Frame, TEFC





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Product Information Packet: Model No: SCA0041A4111GAA001, Catalog No:SCA0041A4111GAA001 TerraMAX® Cast Iron Motor, 5.50 HP, 3 Ph, 50 Hz, 380/660 V, 3000 RPM, 112M Frame, TEFC



Nameplate Specifications

Output HP	5.50 Hp	Output KW	4.0 kW
Frequency	50 Hz	Voltage	380/660 V
Current	7.6 A	Speed	2864 rpm
Service Factor	1	Phase	3
Efficiency	85.8 %	Power Factor	0.93
Duty	S 1	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	2	Rotation	Bi-Directional
Mounting	В3	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	399 mm	Frame Length	174 mm
Shaft Diameter	28 mm	Shaft Extension	60 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0211200547

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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.

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Model No.	SCA0041A4111GAA001
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U	Δ/Υ	f	Р	Р	I	n	Т	IE	9	% EFF a	t load	ı	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]
380/660	Δ	50	4	5.5	7.6	2864	13.66	IE2	-	85.8	85.8	88	0.93	0.9	0.82	6.72	2.7	2.9

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 B3	
Cooling method	IC 411	
Motor weight - approx.	45	kg
Gross weight - approx.	48	kg
Motor inertia	0.0050	kgm ²
Load inertia	Customer to Provide	
Vibration level	1.6	mm/s
Noise level (1meter distance from mo	otor) 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)	6/10	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 16mm²/2 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

* 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	-	GB 18613-2012 Grade 2	-	-	-	IEC: 60034-30

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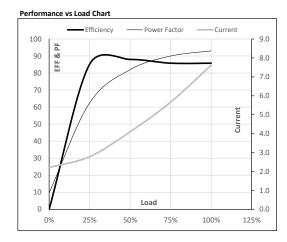




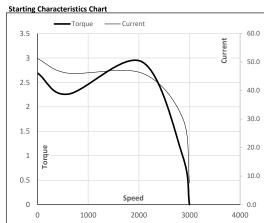
Model No. SCA0041A4111GAA001

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 ²]	[kg]
TEFC	380/660	Δ	50	4	5.5	7.6	2864	1.39	13.66	IE2	40	S1	1000	0.0050	45

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	2.2	2.8	4.1	5.7	7.6	
Torque	Nm	0.0	3.3	6.7	10.1	13.7	
Speed	r/min	3000	2969	2939	2904	2864	
Efficiency	%	0.0	85.2	88.0	85.8	85.8	
Power Factor	%	9.7	62.5	82.0	90.0	93.0	



Motor Speed Torque Data						
Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	600	2064	2864	3000
Current	Α	51.2	46.1	30.4	7.6	2.2
Torque	pu	2.7	2.3	2.9	1	0



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

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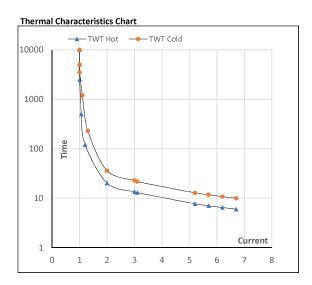




Model No. SCA0041A4111GAA001

Enclosure	U	Δ/Υ	f	Р	Р	ı	n	T	T	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
TEFC	380/66	0 Δ	50	4	5.5	7.6	2864	1.39	13.66	IE2	40	S1	1000	0.0050	45

Motor Speed Torque Data										
Load		FL	I_1	I_2	I_3	I_4	I ₅	LR		
TWT Hot	S	10000	23	15	10	8	7	6		
TWT Cold	s	10000	36	24	17	15	13	10		
Current	pu	1	2	3	4	5	5.5	6.7		



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

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