PRODUCT INFORMATION PACKET



Model No: SCA1P13AG171GAA001 Catalog No: SCA1P13AG171GAA001

TerraMAX® Cast Iron Motor, 1.50 HP, 3 Ph, 50 Hz, 220/380 V, 1000 RPM, 90L Frame, TEFC



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Product Information Packet: Model No: SCA1P13AG171GAA001, Catalog No:SCA1P13AG171GAA001 TerraMAX® Cast Iron Motor, 1.50 HP, 3 Ph, 50 Hz, 220/380 V, 1000 RPM, 90L Frame, TEFC



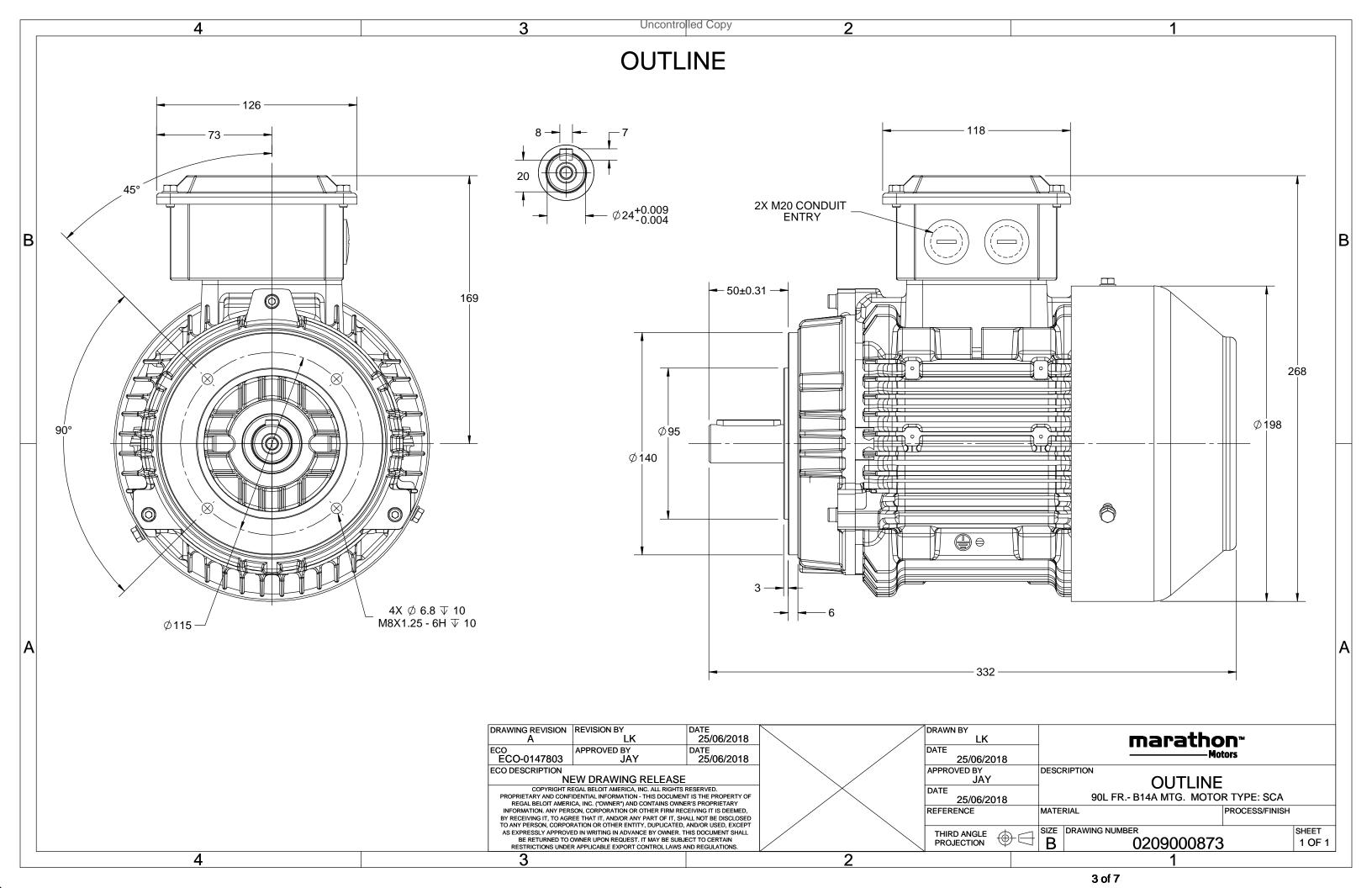
Nameplate Specifications

Output HP	1.50 Hp	Output KW	1.1 kW
Frequency	50 Hz	Voltage	220/380 V
Current	2.8 A	Speed	912 rpm
Service Factor	1	Phase	3
Efficiency	78.1 %	Power Factor	0.76
Duty	S1	Insulation Class	F
Frame	90L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6205	Opp Drive End Bearing Size	6205
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	6	Rotation	Bi-Directional	
Mounting	B14A	Motor Orientation	Horizontal	
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3	
Frame Material	Cast Iron	Shaft Type	Keyed	
Overall Length	332 mm	Frame Length	153 mm	
Shaft Diameter	24 mm	Shaft Extension	50 mm	
Assembly/Box Mounting	Тор			
Outline Drawing	0209000873	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. SCA1P13AG171GAA001

U	Δ/Υ	f	Р	Р	I	n	Т	IE	9	6 EFF at	t load		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]
220/380	Υ	50	1.1	1.5	2.8	912	11.73	IE2	-	78.1	78.1	77.5	0.76	0.68	0.55	4.1	2.4	2.4

Motor type	SCA		Degree of protection	IP 55	
Enclosure	TEFC		Mounting type	IM B14A	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	90L		Motor weight - approx.	26.6	kg
Duty	S1		Gross weight - approx.	27.6	kg
Voltage variation *	± 10%		Motor inertia	0.0048	kgm ²
Frequency variation *	± 5%		Load inertia	Customer to Provide	
Combined variation *	10%		Vibration level	1.6	mm/s
Design	N		Noise level (1meter distance from motor	or) 54	dB(A)
Service factor	1.0		No. of starts hot/cold/Equally spread	2/3/4	
Insulation class	F		Starting method	DOL	
Ambient temperature	-20 to +40	°C	Type of coupling	Direct	
Temperature rise (by resistance)	80 [Class B]	K	LR withstand time (hot/cold)	30/15	S
Altitude above sea level	1000	meter	Direction of rotation	Bi-directional	
Hazardous area classification	NA		Standard rotation	Clockwise form DE	
Zone classification	NA		Paint shade	RAL 5014	
Gas group	NA		Accessories		
Temperature class	NA		Accessory - 1	-	
Rotor type	Aluminum Die cast		Accessory - 2	-	
Bearing type	Anti-friction ball		Accessory - 3	-	
DE / NDE bearing	6205-2Z / 6205-2Z		Terminal box position	TOP	
Lubrication method	Greased for life		Maximum cable size/conduit size 1	.R x 3C x 10mm ² /2 x M20 x 1.5	
Type of grease	NA		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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 $[\]ensuremath{^{*}}$ Voltage, Frequency and combine variation are as per IEC60034-1

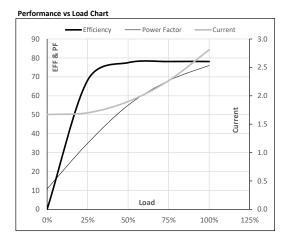




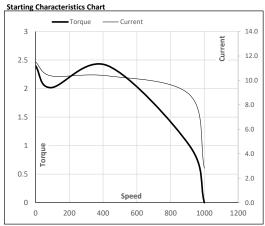
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Enclosure	U	Δ/Υ	f	Р	Р	I	n	T	T	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	220/380	Υ	50	1.1	1.5	2.8	912	1.20	11.73	IE2	40	S1	1000	0.0048	26.6

Motor Load Data	a						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	1.7	1.7	1.9	2.3	2.8	
Torque	Nm	0.0	2.7	5.6	8.5	11.7	
Speed	r/min	1000	980	961	939	912	
Efficiency	%	0.0	68.2	77.5	78.1	78.1	
Power Factor	%	10.8	34.9	55.0	68.0	76.0	



Motor Speed T	Motor Speed Torque Data											
Load Point		LR	P-Up	BD	Rated	NL						
Speed	r/min	0	91	428	912	1000						
Current	Α	11.5	10.4	8.8	2.8	1.7						
Torque	pu	2.4	2.0	2.4	1	0						



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

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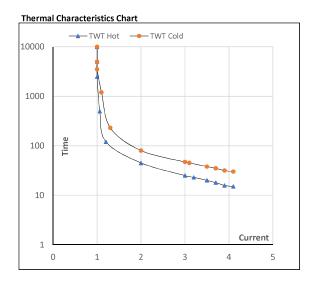




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Enclosure	U	Δ/Υ	f	Р	Р	ı	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	220/38	0 Δ	50	1.1	1.5	2.8	912	1.20	11.73	IE2	40	S1	1000	0.0048	26.6

Motor Speed	Motor Speed Torque Data												
Load		FL	I_1	I_2	l ₃	I_4	I_5	LR					
TWT Hot	S	10000	45	30	25	20	16	15					
TWT Cold	s	10000	80	55	47	38	32	30					
Current	pu	1	2	2.5	3	3.5	4	4.1					



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

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