PRODUCT INFORMATION PACKET



Model No: SCA0031AG131GAA001 Catalog No: SCA0031AG131GAA001

TerraMAX® Cast Iron Motor, 4 HP, 3 Ph, 50 Hz, 220/380 V, 3000 RPM, 100L Frame, TEFC



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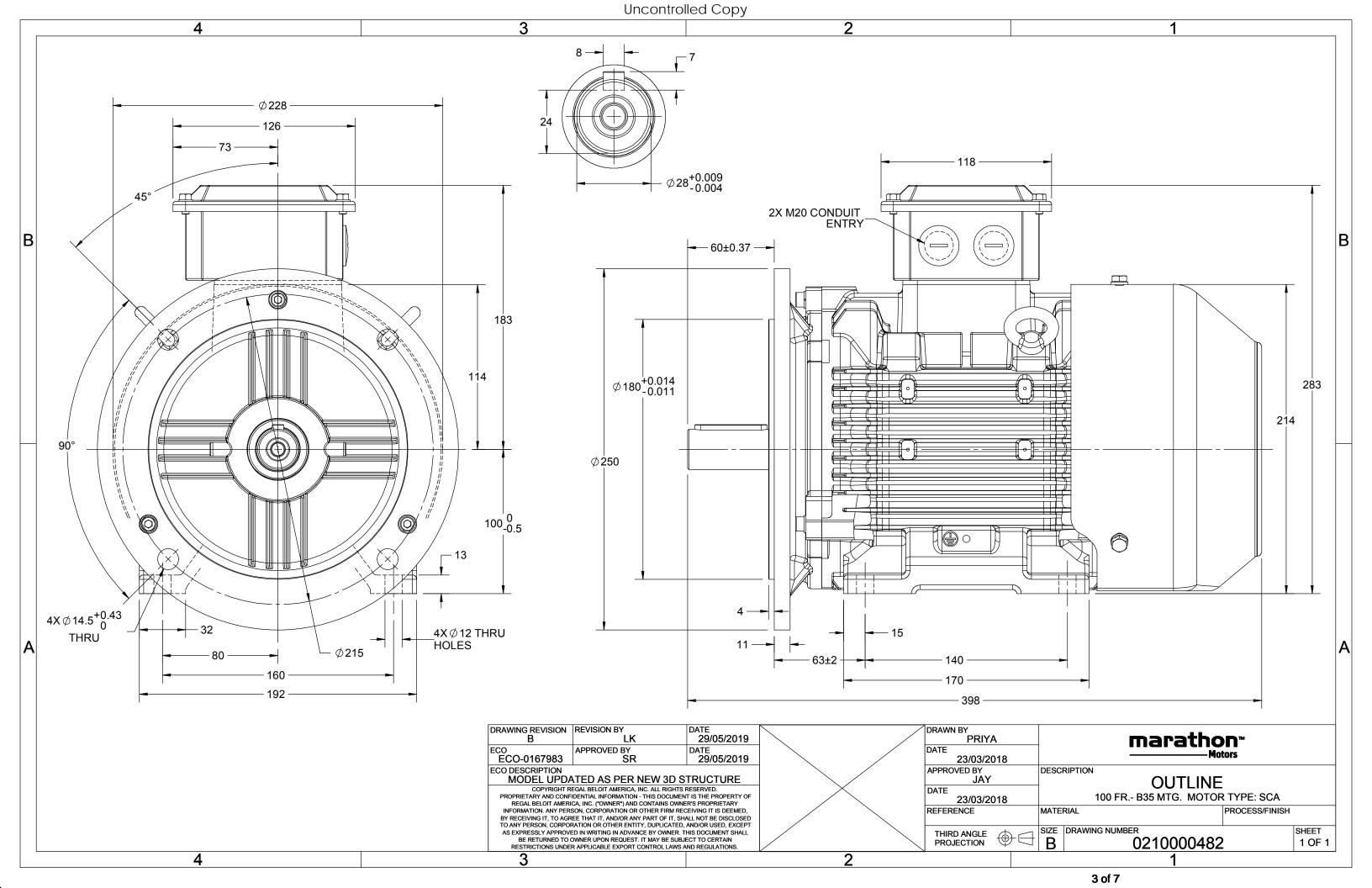
Nameplate Specifications

4 Hp	Output KW	3.0 kW
50 Hz	Voltage	220/380 V
6.1 A	Speed	2879 rpm
1	Phase	3
84.6 %	Power Factor	0.89
S1	Insulation Class	F
100L	Enclosure	Totally Enclosed Fan Cooled
No Protection	Ambient Temperature	40 °C
6206	Opp Drive End Bearing Size	6206
No	CSA	No
Yes	IP Code	55
1	Efficiency Class	IE2
	50 Hz 6.1 A 1 84.6 % S1 100L No Protection 6206 No	50 Hz Voltage 6.1 A Speed 1 Phase 84.6 % Power Factor S1 Insulation Class 100L Enclosure No Protection Ambient Temperature 6206 Opp Drive End Bearing Size No CSA Yes IP Code

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	Rotation	Bi-Directional
Mounting	B35	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	398 mm	Frame Length	200 mm
Shaft Diameter	28 mm	Shaft Extension	60 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0210000482	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





TerraMAX[®]

Model No. SCA0031AG131GAA001

U	Δ/Υ	f	Р	Р	1	n	Т	IE	9	6 EFF a	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	3	4.0	6.1	2879	9.9	IE2	-	84.6	84.6	84.4	0.89	0.84	0.73	7.5	3.3	3.2

Motor type	SCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	100L	
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	6206-2Z / 6206-2Z	
Lubrication method	Greased for life	
Type of grease	NA	

Degree of protection	IP 55	
Mounting type	IM B35	
Cooling method	IC 411	
Motor weight - approx.	38	kg
Gross weight - approx.	41	kg
Motor inertia	0.0032	kgm²
Load inertia	Customer to Provide	
Vibration level	1.6	mm/s
Noise level (1meter distance from mot	tor) 65	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 10mm²/2 x M20 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	-	-	-	IFC: 60034-30

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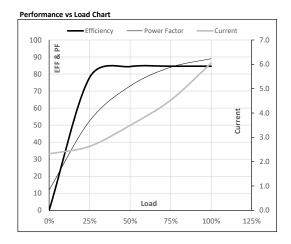




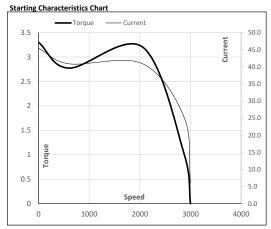
Model No. SCA0031AG131GAA001

Enclosure	U	Δ/Υ	f	Р	Р	Ţ	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	3	4.0	6.1	2879	1.01	9.90	IE2	40	S1	1000	0.0032	38

Motor Load Dat	a						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	2.3	2.6	3.5	4.5	6.1	
Torque	Nm	0.0	2.4	4.8	7.3	9.9	
Speed	r/min	3000	2971	2943	2913	2879	
Efficiency	%	0.0	78.0	84.4	84.6	84.6	
Power Factor	%	11.9	52.5	73.0	84.0	89.0	



Motor Speed T	orque Data						
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	600	2058	2879	3000	
Current	Α	45.4	40.9	25.1	6.1	2.3	
Torque	pu	3.3	2.8	3.2	1	0	



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

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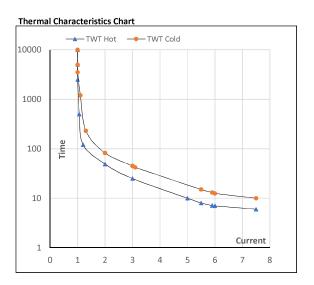




Model No. SCA0031AG131GAA001

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	220/38	30 Y	50	3	4.0	6.1	2879	1.01	9.90	IE2	40	S1	1000	0.0032	38

Motor Speed Torque Data								
Load		FL	I_1	I_2	l ₃	I_4	I ₅	LR
TWT Hot	S	10000	49	25	15	10	8	6
TWT Cold	s	10000	82	45	44	42	15	10
Current	pu	1	2	3	4	5	5.5	7.5
	-							



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

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