PRODUCT INFORMATION PACKET

Model No: SCA0032AG131GAA001 Catalog No: SCA0032AG131GAA001 TerraMAX® Cast Iron Motor, 4 HP, 3 Ph, 50 Hz, 220/380 V, 1500 RPM, 100L Frame, TEFC



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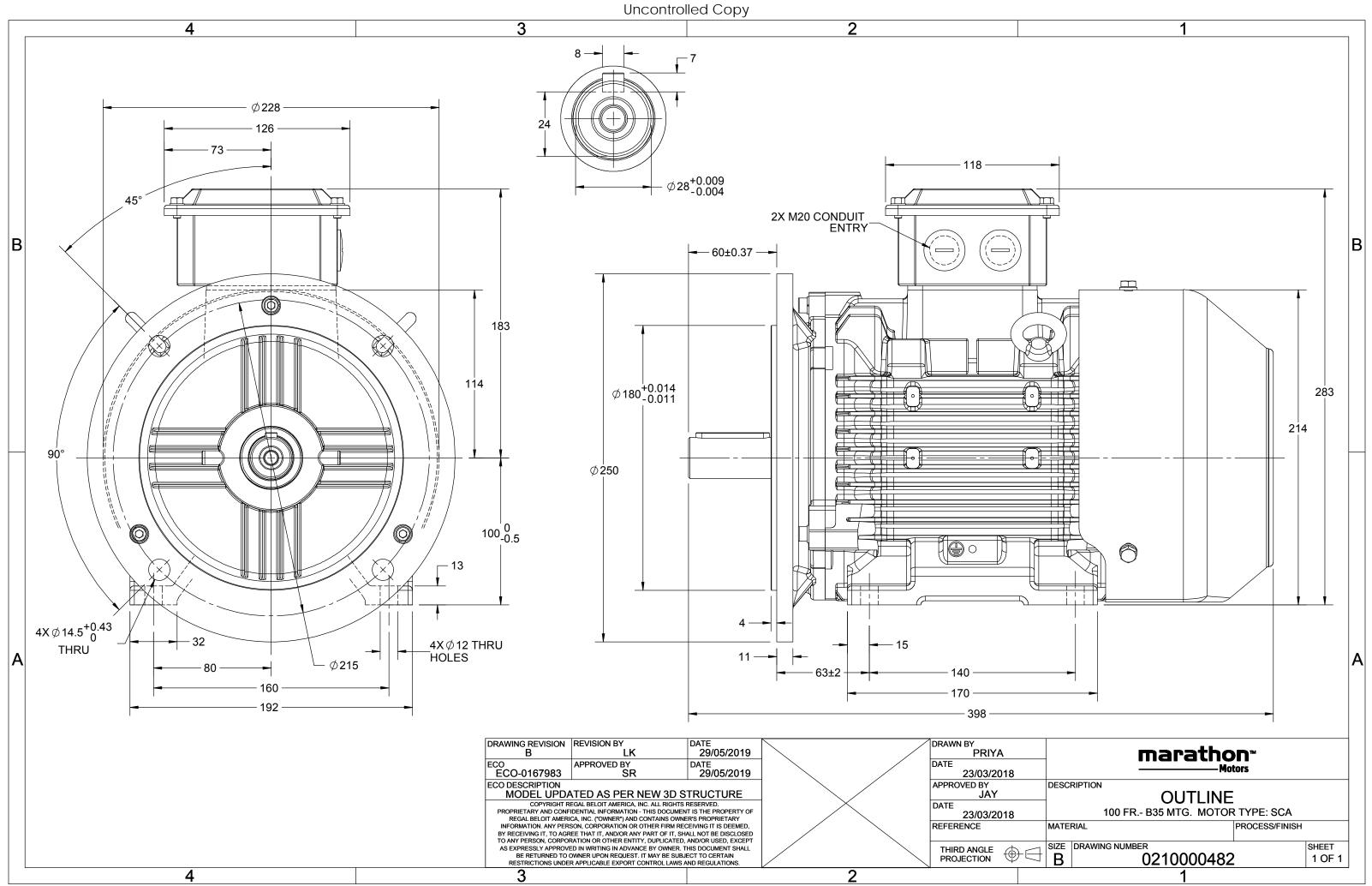
Nameplate Specifications

Output HP	4 Hp Output KW		3.0 kW
Frequency	50 Hz	Voltage	220/380 V
Current	6.4 A	Speed	1434 rpm
Service Factor	Factor 1 Phase		3
Efficiency	85.5 %	Power Factor	0.84
Duty	S1	Insulation Class	F
Frame	100L	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	100L No Protection	Enclosure Ambient Temperature	Totally Enclosed Fan Cooled 40 °C
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection Drive End Bearing Size	No Protection 6206	Ambient Temperature Opp Drive End Bearing Size	40 °C 6206

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line	
Poles	4	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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U	Δ / Y	f	Р	Р	1	n	т	IE	ç	6 EFF a	t load	ł	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		3/4FL		FL	3/4FL		[pu]	[pu]	[pu]
220/380	Y	50	3	4.0	6.3	1434	19.86	IE2	-	85.5	85.5	85.3	0.84	0.77	0.64	6.4	2.8	3.0

Motor type	SCA		Degree of protection	IP 55	
Enclosure	TEFC		Mounting type	IM B35	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	100L		Motor weight - approx.	40	kg
Duty	S1		Gross weight - approx.	43	kg
Voltage variation *	± 10%		Motor inertia	0.0074	kgm ²
Frequency variation *	± 5%		Load inertia	Customer to Provide	
Combined variation *	10%		Vibration level	1.6	mm/s
Design	Ν		Noise level (1meter distance from moto	or) 58	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]	К	LR withstand time (hot/cold)	10/20	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	6206-2Z / 6206-2Z		Terminal box position	TOP	
Lubrication method	Greased for life		Maximum cable size/conduit size	.R x 3C x 10mm²/2 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

* Voltage, Frequency and combine variation are as per IEC60034-1

Technical data	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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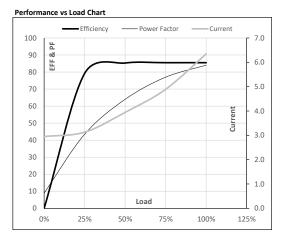
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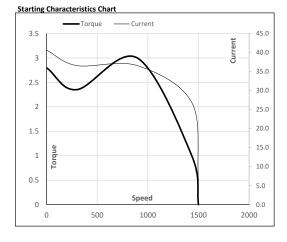
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Enclosure	U	Δ / Y	f	Р	Р	1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	220/380	Y	50	3	4.0	6.3	1434	2.03	19.86	IE2	40	S1	1000	0.0074	40

Motor Load Dat	d						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	3.0	3.1	3.9	4.9	6.3	
Torque	Nm	0.0	4.8	9.7	14.7	19.9	
Speed	r/min	1500	1485	1470	1453	1434	
Efficiency	%	0.0	79.2	85.3	85.5	85.5	
Power Factor	%	8.9	43.5	64.0	77.0	84.0	



Motor Speed Torque Data										
Load Point		LR	P-Up	BD	Rated	NL				
Speed	r/min	0	300	896	1434	1500				
Current	А	40.6	36.6	26.9	6.3	3.0				
Torque	pu	2.8	2.4	3.0	1	0				



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

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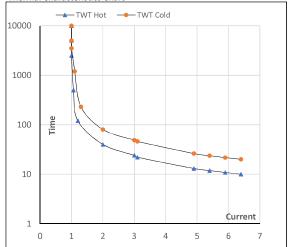
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Enclosure	$U \Delta /$	Y f	P	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
((V) Co	nn [Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC 22	20/380 Y	/ 50	3	4.0	6.3	1434	2.03	19.86	IE2	40	S1	1000	0.0074	40

Motor Speed Torque Data

Load		FL	I_1	I_2	I ₃	I_4	I ₅	LR
TWT Hot	s	10000	39	26	17	13	11	10
TWT Cold	s	10000	75	49	35	26	23	20
Current	pu	1	2	3	4	5	5.5	6.4
-								

Thermal Characteristics Chart



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

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