PRODUCT INFORMATION PACKET

Model No: SCA18P4A4131GAA001 Catalog No: SCA18P4A4131GAA001 TerraMAX® Cast Iron Motor, 25 HP, 3 Ph, 50 Hz, 380/660 V, 750 RPM, 225S Frame, TEFC



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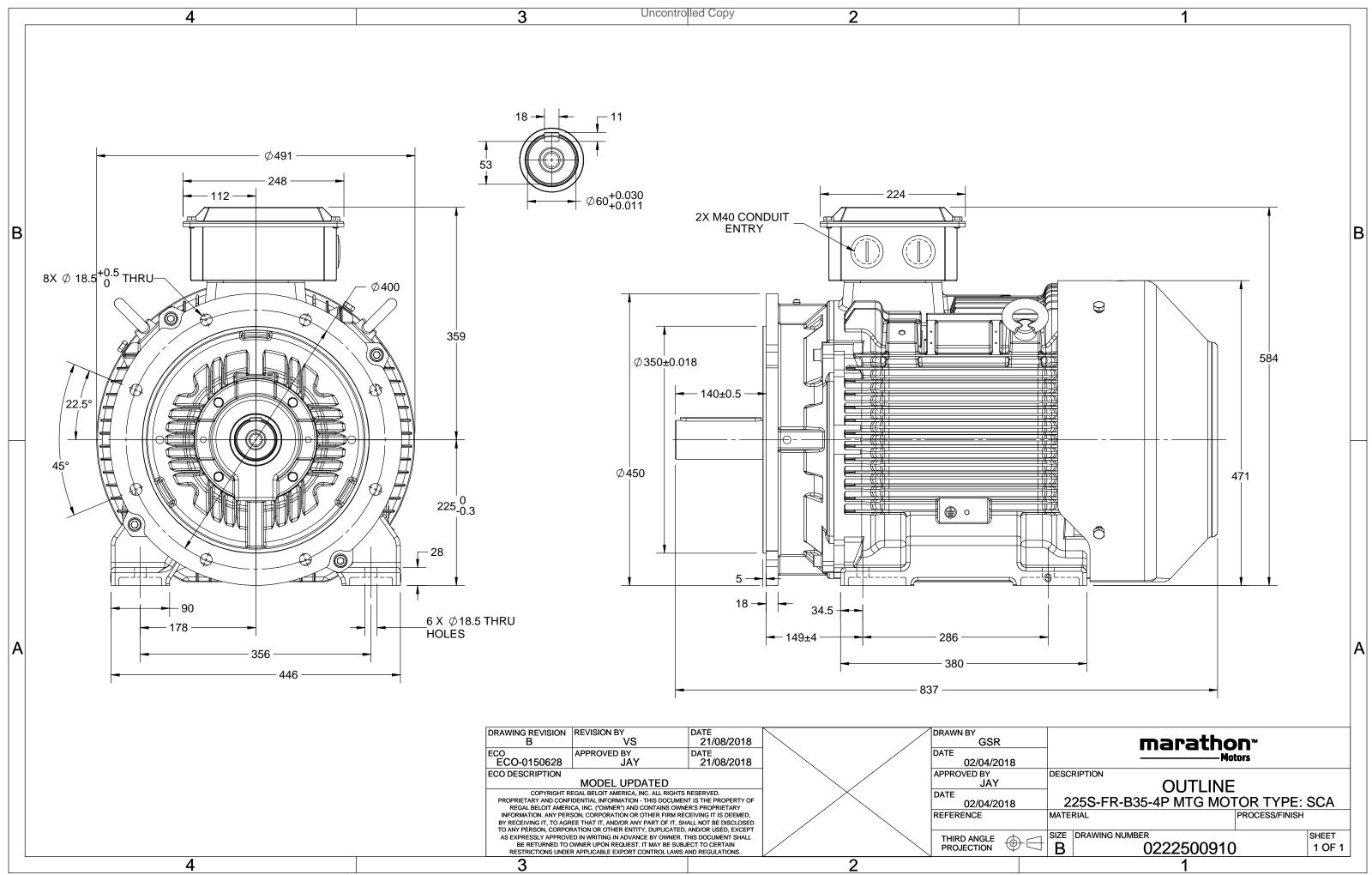
Nameplate Specifications

Output HP	25 Hp	Output KW	18.5 kW		
Frequency	50 Hz	Voltage	380/660 V		
Current	44.7 A	Speed	737 rpm		
Service Factor	1	Phase	3		
Efficiency	88.6 %	Power Factor	0.71		
Duty	S1	Insulation Class	F		
Frame	225S	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Ambient Temperature	40 °C		
Drive End Bearing Size	6313	Opp Drive End Bearing Size	6213		
UL	6313 No	Opp Drive End Bearing Size CSA	6213 No		
-					

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	8	Rotation	Bi-Directional
Mounting	B35	Motor Orientation	Horizontal
Drive End Bearing	C3	Opp Drive End Bearing	C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	837 mm	Frame Length	400 mm
Shaft Diameter	60 mm	Shaft Extension	140 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0222500910	Connection Drawing	8442000085

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TerraMAX[®]

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U	Δ / Y	f	Р	Р	I	n	Т	IE	Q	6 EFF a	t loac	I	PF	at lo	ad	I _A /I _N	T_A/T_N	$T_{\rm K}/T_{\rm N}$
(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	18.5	25	44.7	737	241.77	IE2	-	88.6	88.6	89.1	0.71	0.63	0.49	5.1	1.9	2.4

Motor type	SCA		Degree of protection	IP 55	
Enclosure	TEFC		Mounting type	IM B35	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	225S		Motor weight - approx.	407	kg
Duty	S1		Gross weight - approx.	437	kg
Voltage variation *	± 10%		Motor inertia	1.0859	kgm ²
Frequency variation *	± 5%		Load inertia	Customer to Provide	
Combined variation *	10%		Vibration level	2.2	mm/s
Design	Ν		Noise level (1meter distance from moto	r) 63	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)	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	6313 C3/ 6213 C3		Terminal box position	ТОР	
Lubrication method	Re-grease-able		Maximum cable size/conduit size 1	R x 3C x 50mm²/2 x M40 x 1.5	
Type of grease	CHEVRON SRI-2 or Equivalent		Auxiliary terminal box	Available on Request	

 $I_{\rm A}/I_{\rm N}$ - Locked Rotor Current / Rated Current $T_{\rm A}/T_{\rm N}$ - 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

