PRODUCT INFORMATION PACKET

Model No: SCA1P54A3171GAAD01 Catalog No: SCA1P54A3171GAAD01 TerraMAX® Cast Iron Motor, 2 HP, 3 Ph, 50 Hz, 415 V, 750 RPM, 112M Frame, TEFC



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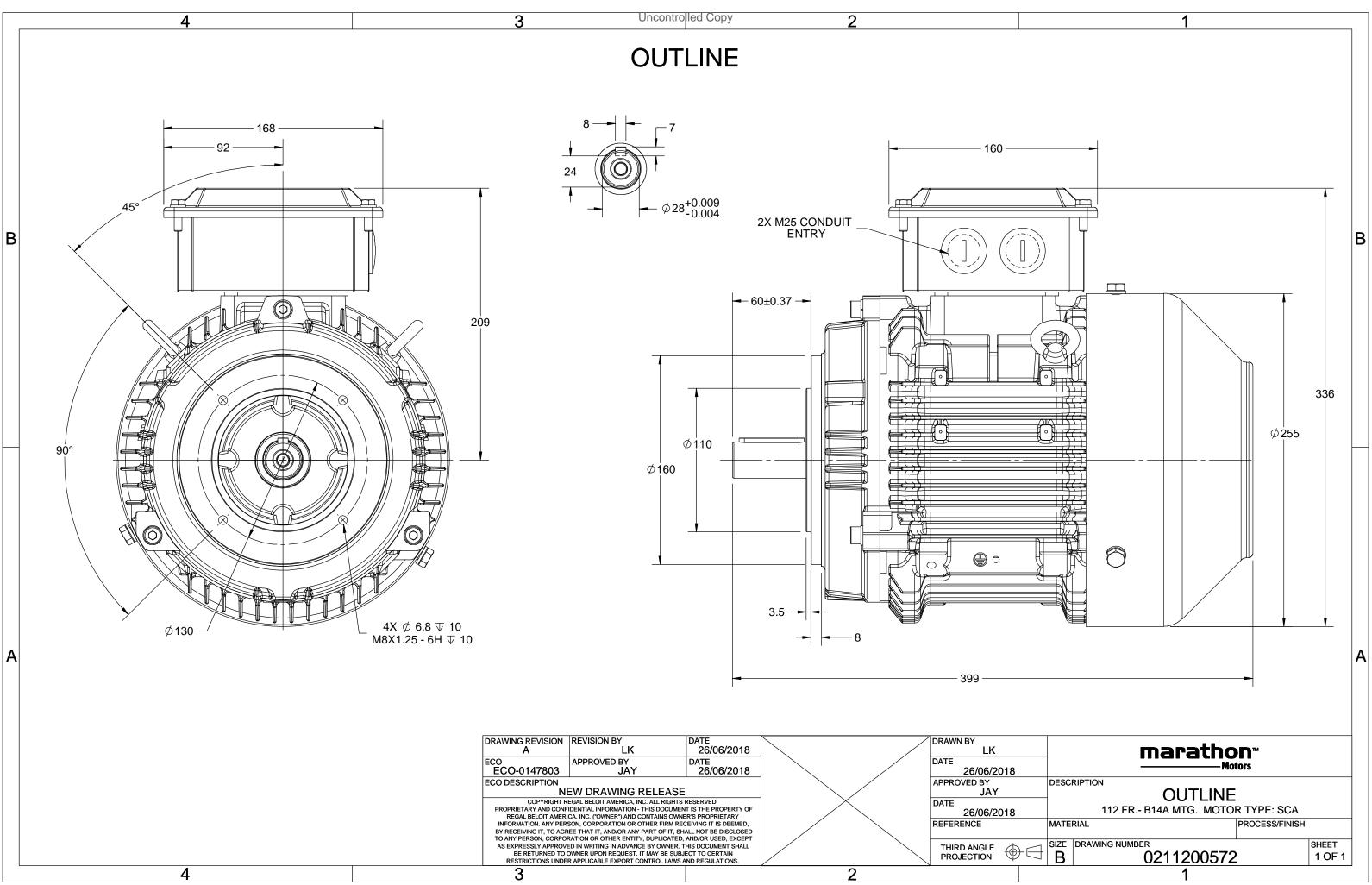
Nameplate Specifications

Output HP	2 Нр	Output KW	1.5 kW		
Frequency	50 Hz	Voltage	415 V		
Current	4.6 A	Speed	721 rpm		
Service Factor	1	Phase	3		
Efficiency	74.1 %	Power Factor	0.6183		
Duty	S1	Insulation Class	F		
Frame	112M	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Ambient Temperature	50 °C		
	No Protection 6206	Ambient Temperature Opp Drive End Bearing Size	50 °C 6206		
Thermal Protection		-			
Thermal Protection Drive End Bearing Size	6206	Opp Drive End Bearing Size	6206		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line	
Poles	8	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	399 mm	Frame Length	174 mm	
Shaft Diameter	28 mm	Shaft Extension	60 mm	
Assembly/Box Mounting	ТОР			
Connection Drawing	8442000085	Outline Drawing	0211200572	

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3 of 5





TerraMAX[®]

SCA1P54A3171GAAD01 Model No.

U	Δ / Y	f	Р	Р	I	n	Т	IE		% EFF a	t load	ł	PF	at_lo	bad	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]
415	Y	50	1.5	2.0	4.3	718	19.87	IE2	-	74.1	74.1	72.5	0.66	0.56	0.41	4.4	2.0	2.4
																10.55		
Motor					SCA				Degree of protection				IP 55					
Enclos					TEFC					unting						IM B14A		
Frame	Materia				Cast Ire					Cooling method					IC 411			
Frame	size				112N	1			Mo	tor wei	ght - ap	orox.						kg
Duty					S1				Gro	oss weig	ht - app	rox.			55			kg
Voltage	e variatio	on *			± 10%	, D			Mo	Motor inertia				0.0200			kgm ²	
Freque	uency variation * ± 5%				Loa	Load inertia				Customer to Provide								
Combi	ned varia	ariation * 10%				Vib	Vibration level				1.6		mm/s					
Design					N				Noi	se level (1meter distance from moto		n motor	or) 56		dB(A)			
Service	factor				1.0				No. of starts hot/cold/Equally spread			ead	2/3/4					
Insulat	ion class				F				Sta	rting m	ethod					DOL		
Ambie	nt tempe	erature			-20 to +	50		°C	°C Type of coupling Direct									
Tempe	rature ri	se (by i	resistanc	ce)	70 [Clas	s B]		К	LR	LR withstand time (hot/cold) 15/30				s				
Altitud	e above	sea lev	el		1000			meter	Dire	Direction of rotation			Bi-directional					
Hazardous area classification NA					Sta	Standard rotation				Clockwise form DE								
Zone classification NA				Pai	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 6306-2Z / 6206-2Z				Ter				TOP									
	Lubrication method Greased for life				Maximum cable size/conduit size 1R x 3C x 16mm ² /2 x M25 x			M25 x 1.5										
Type of	Type of grease NA				Auxiliary terminal box NA													
/	0									. , .								

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

 $T_{\rm K}/T_{\rm N}$ - Breakdown Torque / Rated Torque

 T_A/T_N - Locked Rotor 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 India Aus/Nz Brazil Europe China

Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	-	-	IS 12615 : 2018	-	-	-

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