PRODUCT INFORMATION PACKET

Model No: SCA7P52A4171GAA001 Catalog No: SCA7P52A4171GAA001 TerraMAX® Cast Iron Motor, 10 HP, 3 Ph, 50 Hz, 380/660 V, 1500 RPM, 132M Frame, TEFC



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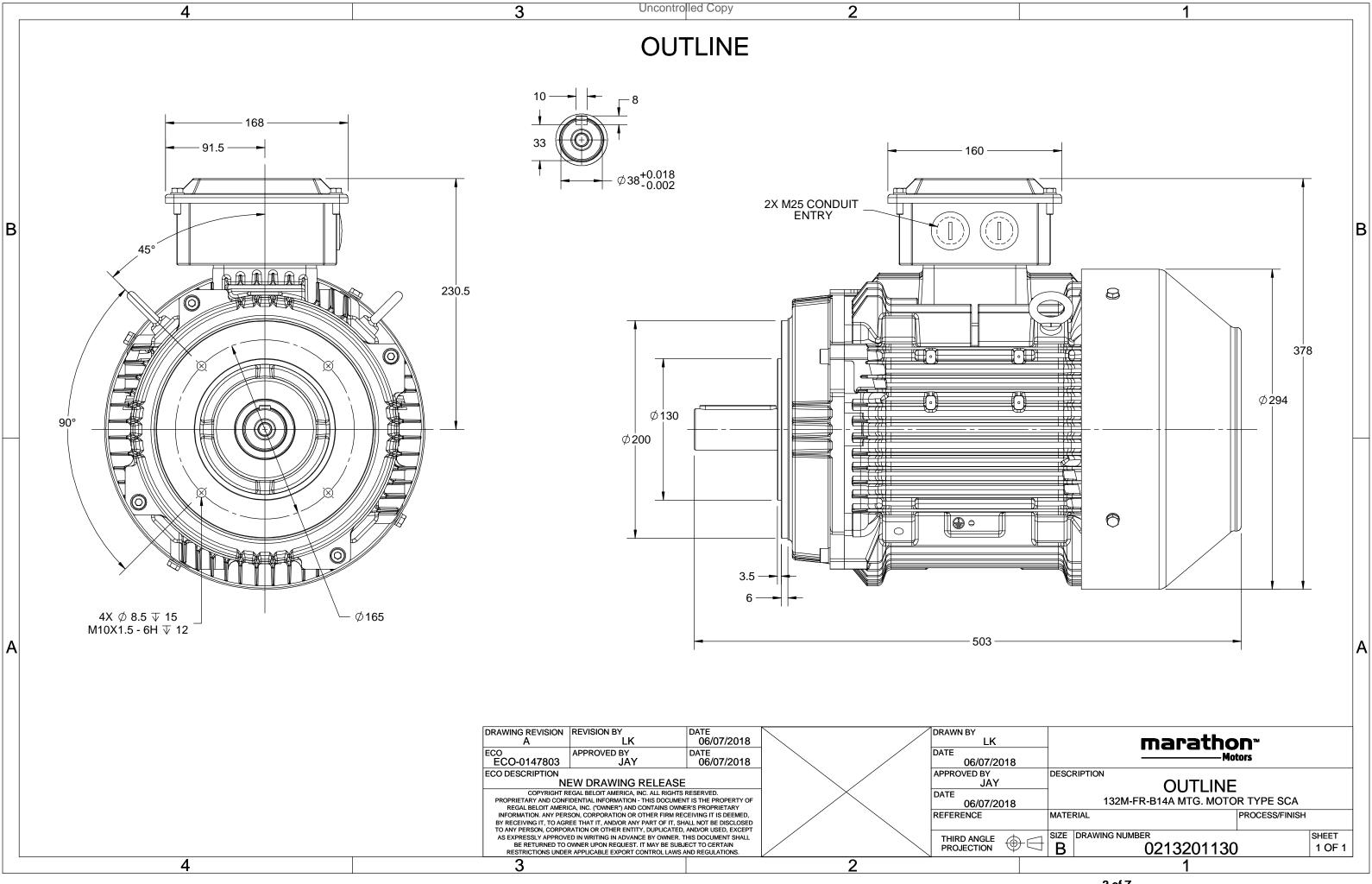
Nameplate Specifications

Output HP	10 Нр	Output KW	7.5 kW
Frequency	50 Hz	Voltage	380/660 V
Current	15.3 A	Speed	1451 rpm
Service Factor	1	Phase	3
Efficiency	88.7 %	Power Factor	0.84
Duty	S1	Insulation Class	F
Frame	132M	Enclosure	Totally Enclosed Fan Cooled
		Enclosedio	Totally Enclosed I all ecoled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection Drive End Bearing Size	No Protection 6308	Ambient Temperature Opp Drive End Bearing Size	40 °C 6208

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	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	503 mm	Frame Length	240 mm
Shaft Diameter	38 mm	Shaft Extension	80 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0213201130

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U	Δ / Y	f	Р	Р	I	n	т	IE	9	6 EFF at	t load	ł	PF	[:] at lo	bad	I_A/I_N	T_A/T_N	$T_{\rm K}/T_{\rm N}$
(∨)	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	7.5	10	15.3	1451	49.08	IE2	-	88.7	88.7	88.9	0.84	0.79	0.66	8.3	3.4	3.5
								-										
Motor type	e				SCA				Deg	ree of	protecti	on				IP 55		
Enclosure					TEFC				Мо	unting	type					IM B14A		

Enclosure	TEFC		Mounting type	IM B14A	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	132M		Motor weight - approx.	86	kg
Duty	S1		Gross weight - approx.	89	kg
Voltage variation *	± 10%		Motor inertia	0.0270	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) 61	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)	10/6	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	6308-2Z / 6208-2Z		Terminal box position	ТОР	
Lubrication method	Greased for life		Maximum cable size/conduit size 1	R x 3C x 16mm²/2 x M25 x 1.5	
Type of grease	NA		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

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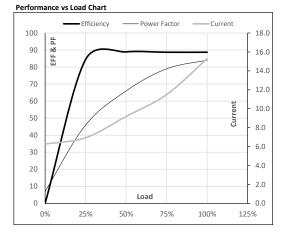
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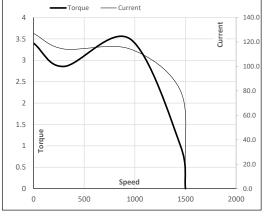
Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380/660	Δ	50	7.5	10	15.3	1451	5.00	49.08	IE2	40	S1	1000	0.0270	86

Motor Load Data	а						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	6.3	6.9	9.2	11.5	15.3	
Torque	Nm	0.0	12.0	24.1	36.5	49.1	
Speed	r/min	1500	1489	1477	1465	1451	
Efficiency	%	0.0	84.5	88.9	88.7	88.7	
Power Factor	%	7.0	46.0	66.0	79.0	84.0	



Motor Speed Torque Data										
Load Point		LR	P-Up	BD	Rated	NL				
Speed	r/min	0	300	953	1451	1500				
Current	А	126.9	114.3	80.0	15.3	6.3				
Torque	pu	3.4	2.9	3.5	1	0				





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

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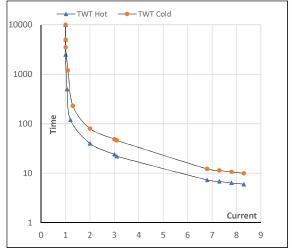
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Enclosure	$U = \Delta /$	Y f	P	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V) Cor	ın [Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380/660 Δ	50	7.5	10	15.3	1451	5.00	49.08	IE2	40	S1	1000	0.0270	86

Motor Speed Torque Data

Load		FL	I_1	I_2	I ₃	I_4	ا5	LR
TWT Hot	s	10000	40	24	20	15	9	6
TWT Cold	s	10000	80	49	35	26	18	10
Current	pu	1	2	3	4	5	5.5	8.3

Thermal Characteristics Chart



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

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