PRODUCT INFORMATION PACKET

Model No: TCA7P52A3113GACD01 Catalog No: TCA7P52A3113GACD01 Cast Iron Motor, 10 HP, 3 Ph, 50 Hz, 415 V, 1500 RPM, 132M Frame, TEFC



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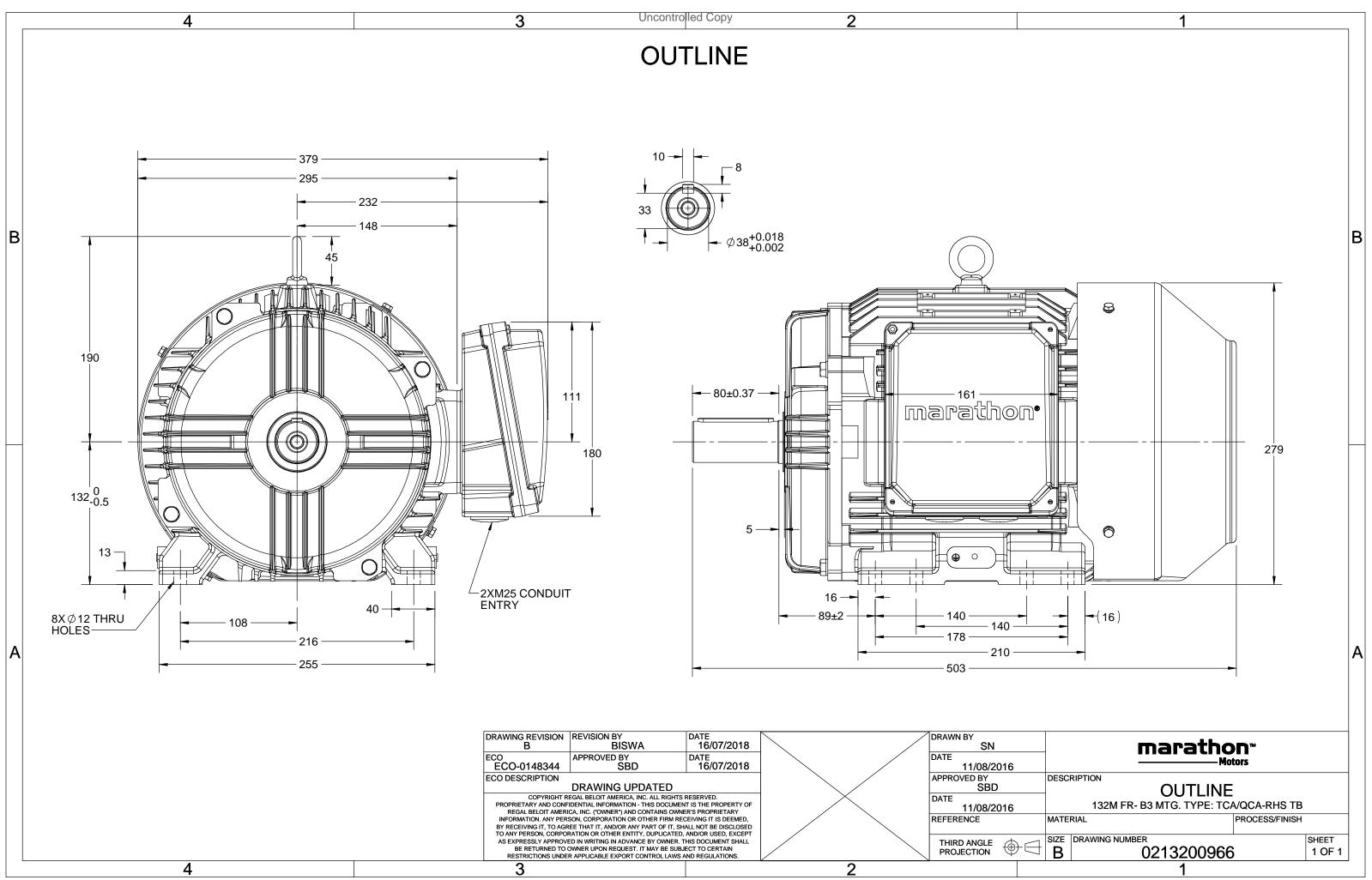
Nameplate Specifications

Output HP	10 Hp	Output KW	7.5 kW
Frequency	50 Hz	Voltage	415 V
Current	13.7 A	Speed	1469 rpm
Service Factor	1	Phase	3
Efficiency	90.4 %	Power Factor	0.84
Duty	S1	Insulation Class	F
Frame	132M	Enclosure	Totally Enclosed Fan Cooled
1 Idinio			
Thermal Protection	No Protection	Ambient Temperature	50 °C
Thermal Protection	No Protection	Ambient Temperature	50 °C
Thermal Protection Drive End Bearing Size	No Protection 6308	Ambient Temperature Opp Drive End Bearing Size	50 °C 6208

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	B3	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	R Side		
Connection Drawing	8442000085	Outline Drawing	0213200966

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Model No. TCA7P52A3113GACD01

<u> </u>	A / 37	4	_				т.	15			المعا					1.4	т /т	т /т
U	Δ/Υ	f	Р	Р	1	n	Т	IE		% EFF at _				at lo		I _A /I _N	T_A/T_N	
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL		1/2FL	FL		1/2FL	[pu]	[pu]	[pu]
415	Δ	50	7.5	10	13.7	1469	48.50	IE3	-	90.4	90.4	90.4	0.84	0.78	0.66	7.3	2.7	3.0
								I										
Motor	type				TCA				г	egree of	nrotecti	on				IP 55		
Enclos					TEFC	:				Nounting	•	011				IM B3		
	Materia	1			Cast Ir					Cooling m						IC 411		
Frame	size	-			132N	1				-		prox.				93		kg
Duty	5120				S1					Motor weight - approx. Gross weight - approx.						96		
	Itage variation * ± 10%								Motor inertia						0.0550			
	requency variation * ± 5%						L	oad inert	ia				Custo	omer to Provid	le	kgm ²		
Combi	ombined variation * 10%						V	/ibration l	evel					1.6		mm/s		
Design							N	loise leve	l (1met	er distaı	nce fror	n motor	·)	61		dB(A)		
Service	e factor				1.0				N	lo. of star	ts hot/c	old/Equ	ally spr	ead		2/3/4		
Insulat	ion class	5			F				Starting method					DOL				
Ambie	nt tempe	erature			-20 to +	-50		°C	Т	Type of coupling						Direct		
Tempe	erature ri	ise (by i	resistand	e)	70 [Clas	s B]		К	LR withstand time (hot/cold)						10/20			S
Altituc	le above	sea lev	el		1000)		meter	0	Direction of	of rotati	on			В	i-directional		
Hazaro	lous area	a classif	ication		NA				s	tandard r	otation				Cloc	kwise form DI	E	
	Zone cl	assifica	tion		NA				P	aint shad	e					RAL 5014		
	Gas gro	up			NA				A	ccessorie	s							
	Temper	rature o	class		NA					Ac	cessory	- 1				-		
Rotor	type			Al	uminum [Die cast				Accessory - 2				-				
Bearin	g type			Anti-	friction ba	all bearing				Ac	cessory	- 3				-		
DE / N	DE beari	ng			08-2Z / 6				т	Terminal box position					RHS			
Lubric	ation me	thod		C	Greased fo	or life			Ν	/laximum	cable si	ze/cond	uit size	1R	x 3C x 1	x 3C x 16mm²/2 x M25 x 1.5		
Type o	f grease				NA				A	uxiliary t	erminal	box				NA		

 $\rm I_A/\rm I_N$ - Locked Rotor Current / Rated Current

 $T_{\text{A}}/T_{\text{N}}$ - 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	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	-	-	IS 12615 : 2018	-	-	-



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

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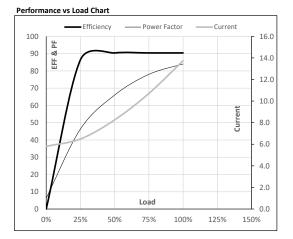


Model No. TCA7P52A3113GACD01

Enclosure	U	Δ / Y	f	Р	Р	I	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	415	Δ	50	7.5	10.0	13.7	1469	4.95	48.50	IE3	50	S1	1000	0.055	93
										_					

Motor Load Data

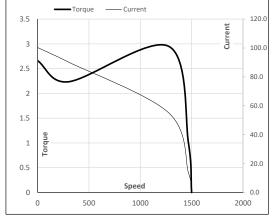
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	5.8	6.5	8.3	10.7	13.7	
Torque	Nm	0.0	11.9	24.0	36.2	48.5	
Speed	r/min	1500	1493	1485	1478	1469	
Efficiency	%	0.0	86.4	90.4	90.4	90.4	
Power Factor	%	6.3	46.3	66.0	78.0	84.0	



Motor Speed Torque Data

		1.0	D I I -	80	Deted	NU	
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	300	1277	1469	1500	
Current	А	100.3	90.3	55.1	13.7	5.8	
Torque	pu	2.7	2.2	3.0	1	0	

Starting Characteristics Chart



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

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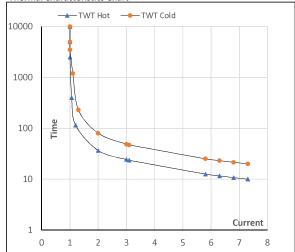
Model No. TCA7P52A3113GACD01

Enclosure	U	Δ / Y	f	Р	Р	I	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	415	Δ	50	7.5	10	13.7	1469	4.94	48.50	IE3	50	S1	1000	0.0550	93

Motor Speed Torque Data

Load		FL	I_1	I_2	I_3	I_4	I ₅	LR
TWT Hot	s	10000	37	24	20	16	14	10
TWT Cold	s	10000	80	49	40	30	27	20
Current	pu	1	2	3	4	5	5.5	7.3

Thermal Characteristics Chart



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

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