PRODUCT INFORMATION PACKET

Model No: TCA18P4AF113GAC010 Catalog No: TCA18P4AF113GAC010 TerraMAX® Cast Iron Motor, 25 HP, 3 Ph, 50 Hz, 380 V, 750 RPM, 225S Frame, TEFC



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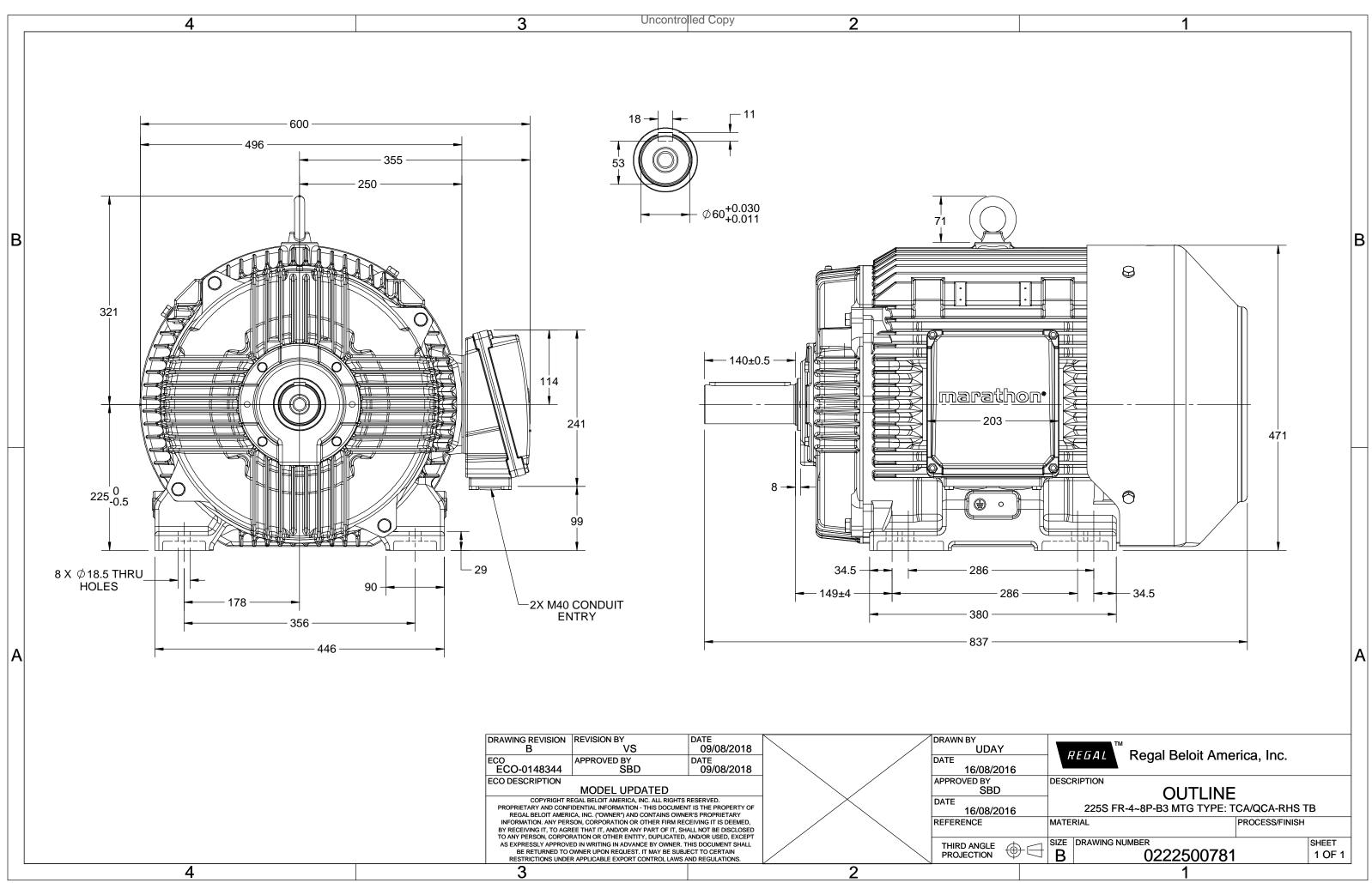
Nameplate Specifications

Output HP	25 Нр	Output KW	18.5 kW		
Frequency	50 Hz	Voltage	380 V		
Current	40.5 A	Speed	738 rpm		
Service Factor	1	Phase	3		
Efficiency	90.1 %	Power Factor	0.77		
Duty	S1	Insulation Class	F		
			Totally Enclosed Fan Cooled		
Frame	225S	Enclosure	Totally Enclosed Fan Cooled		
Frame Thermal Protection	225S 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 6313	Ambient Temperature Opp Drive End Bearing Size	40 °C 6213		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	8	Rotation	Bi-Directional
Mounting	B3	Motor Orientation	Horizontal
Drive End Bearing	Сз	Opp Drive End Bearing	СЗ
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	R Side		
Connection Drawing	8442000085	Outline Drawing	0222500781

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U	Δ / Y	f	Р	Р	Ι	n	т	IE		% EFF a	t loa	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]
380	Δ	50	18.5	25	40.51	738	241.24	IE3	-	90.1	90.1	90.5	0.77	0.72	0.59	5.2	1.7	2.3
Motor t	wno.				TCA				De	gree of	nrotecti	on				IP 55		
Enclosu					TEFC					ounting		011				IM B3		
Frame		I			Cast Irc					oling me						IC 411		
	ame size 225S							otor wei		prox.				371		kg		
Duty								oss weig	• .					402		kg		
Voltage	variatio	on *			± 10%	5		Motor inertia								0.8781		kgm ²
Freque					± 5%				Loa	Load inertia					Custo	omer to Prov	vide	0
Combin					10%				Vib	Vibration level						2.2		
Design					Ν				No	Noise level (1meter distance from motor))	61		dB(A)
Service	factor				1.0				No	No. of starts hot/cold/Equally spread						2/3/4		
Insulati	on class				F				Sta	Starting method						DOL		
Ambien	it tempe	erature			-20 to +	40		°C	Тур	be of co	upling				Direct			
Temper	ature ri	se (by i	resistance	e)	80 [Class	5 B]		К	LR	LR withstand time (hot/cold)						15/30		s
Altitude	e above	sea lev	el		1000			meter	Dir	Direction of rotation						i-directional	l	
Hazardo	ous area	a classif	ication		NA				Sta	ndard r	otation				Cloc	ckwise form	DE	
	Zone cla	assifica	tion		NA				Pai	nt shad	e					RAL 5014		
	Gas gro	up			NA				Aco	cessorie	s							
	Temperature class NA					Aco	essory	- 1			PTC 150°C							
Rotor ty	/pe			Alu	uminum d	ie cast				Accessory - 2					-			
Bearing	type			A	nti-frictio	n ball				Accessory - 3					-			
DE / NC	E beari	ng		63	13 C3/6	213 C3			Ter	Terminal box position					RHS			
Lubrica	tion me	thod			Regrease	ble			Ma	Maximum cable size/conduit size 1R						1R x 3C x 50mm²/2 x M40 x 1.5		
Type of	of grease CHEVRON SRI-2 or Equivalent					Auxiliary terminal box NA												

 $I_{\text{A}}/I_{\text{N}}$ - Locked Rotor Current / Rated Current $\rm T_A/\rm T_N$ - Locked Rotor Torque / Rated Torque $T_{\rm K}/T_{\rm N}$ - 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. Aus/Nz Brazil India Global IEC Efficiency Europe China GB 18613-2012 Grade 2 -IEC: 60034-30 Standards --_

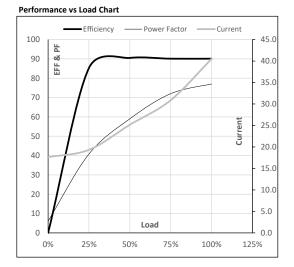
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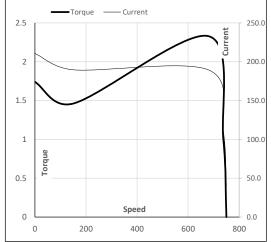
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Δ	50	18.5	25.0	40.5	738	24.60	241.24	IE3	40	S1	1000	0.8781	371

Motor Load D	ata						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	17.6	19.3	25.2	30.9	40.5	
Torque	Nm	0.0	59.6	119.6	180.1	241.2	
Speed	r/min	750	747	744	742	738	
Efficiency	%	0.0	85.3	90.5	90.1	90.1	
Power Factor	%	6.1	40.8	59.0	72.0	77.0	



	Starting	Characteristics	Chart
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Motor Speed	Motor Speed Torque Data													
Load Point		LR	P-Up	BD	Rated	NL								
Speed	r/min	0	150	679	738	750								
Current	А	210.7	189.6	110.2	40.5	17.6								
Torque	pu	1.7	1.5	2.3	1	0								

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

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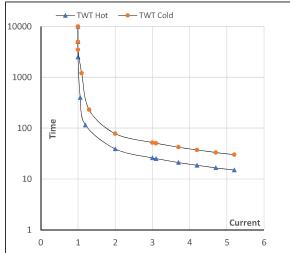
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Enclosure	U	Δ/Υ	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Δ	50	18.5	25.0	40.5	738	24.60	241.24	IE3	40	S1	1000	0.8781	371

Motor Speed Torque Data

Load		FL	I_1	I_2	I_3	I_4	l ₅	LR
TWT Hot	s	10000	39	26	20	18	16	15
TWT Cold	s	10000	78	52	39	36	32	30
Current	pu	1	2	3	4	4.5	5	5.2

Thermal Characteristics Chart



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

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