PRODUCT INFORMATION PACKET

Model No: TCA18P3AF113GAC010 Catalog No: TCA18P3AF113GAC010 TerraMAX® Cast Iron Motor, 25 HP, 3 Ph, 50 Hz, 380 V, 1000 RPM, 200L Frame, TEFC



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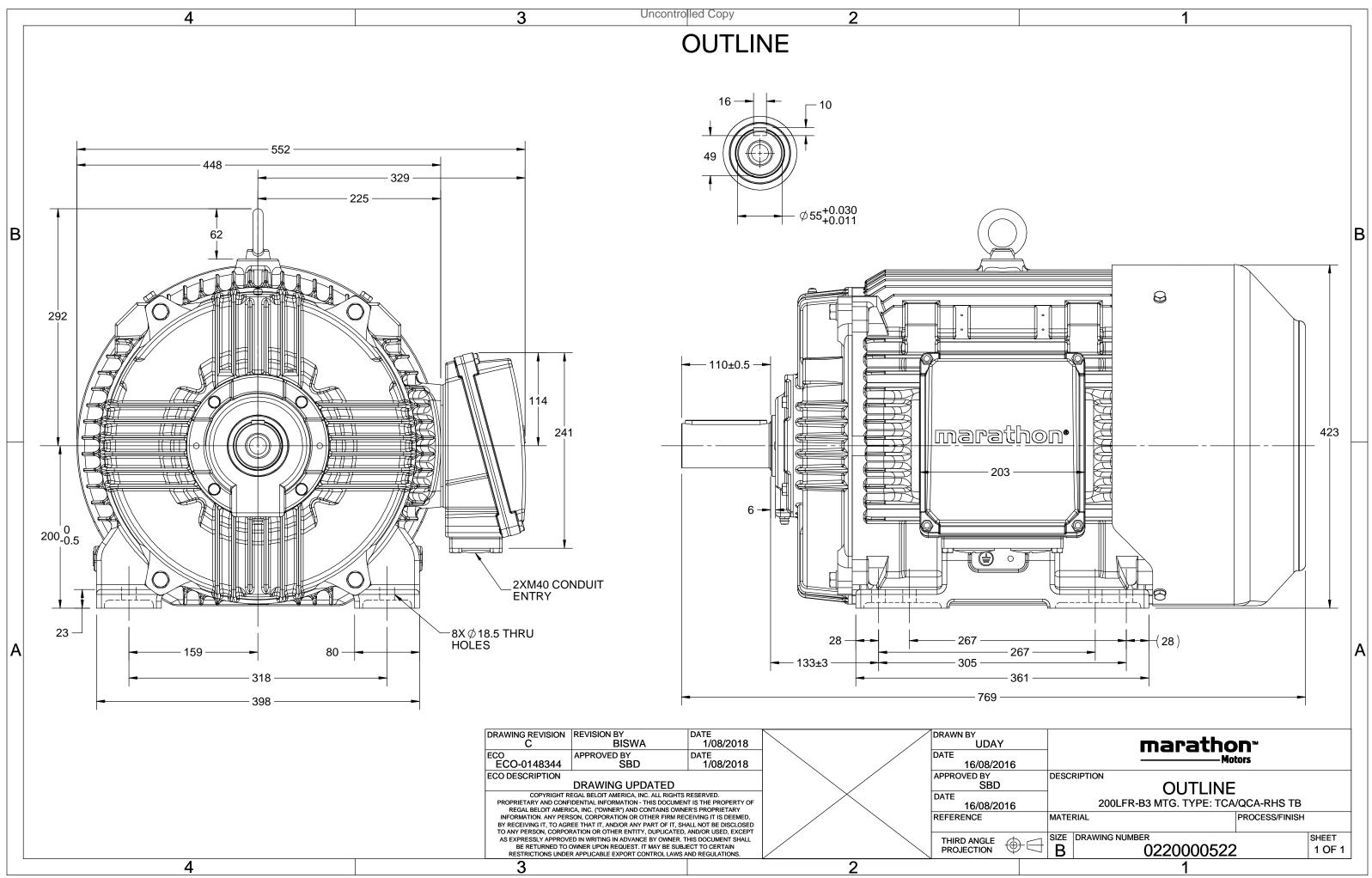
Nameplate Specifications

Output HP	25 Hp	Output KW	18.5 kW		
Frequency	50 Hz	Voltage	380 V		
Current	38.3 A	Speed	984 rpm		
Service Factor	1	Phase	3		
Efficiency	91.7 %	Power Factor	0.8		
Duty	S1	Insulation Class	F		
Frame	200L	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Ambient Temperature	40 °C		
		Ambient Temperature Opp Drive End Bearing Size			
Thermal Protection	No Protection		40 °C		
Thermal Protection Drive End Bearing Size	No Protection 6312	Opp Drive End Bearing Size	40 °C 6212		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	Rotation	Bi-Directional
Mounting	B3	Motor Orientation	Horizontal
Drive End Bearing	СЗ	Opp Drive End Bearing	C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	769 mm	Frame Length	370 mm
Shaft Diameter	55 mm	Shaft Extension	110 mm
Assembly/Box Mounting	R Side		
Outline Drawing	0220000522	Connection Drawing	8442000085

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$U = \Delta / Y = f$	Р	P I	n	Т	IE		% EFF a	t load	ł	PF	at lo	ad	I _A /I _N	T_A/T_N	$T_{\rm K}/T_{\rm N}$
(V) Conn [Hz]	[kW] [ł	np] [A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
380 Δ 50	18.5 2	25 38.31	984	181.04	IE3	-	91.7	91.7	91.6	0.8	0.74	0.62	5.8	2.0	2.4
Motor type		TCA				De	gree of	protecti	on				IP 55		
Enclosure		TEFC				Mo	ounting	type					IM B3		
Frame Material		Cast Irc	on			Co	oling me	ethod					IC 411		
Frame size		200L				Mo	otor wei	ght - ap	prox.				255		kg
Duty		S1				Gro	oss weig	ht - app	rox.				286		kg
Voltage variation *		± 10%	5			Mc	otor iner	tia					0.5179		
Frequency variation *	requency variation * ± 5%				Loa	Load inertia					Customer to Provide				
Combined variation *		10%				Vib	Vibration level						2.2		mm/s
Design		Ν				No	Noise level (1meter distance from motor)					·)	62		dB(A)
Service factor		1.0				No	No. of starts hot/cold/Equally spread						2/3/4		
Insulation class		F				Sta	rting m	ethod				DOL			
Ambient temperature		-20 to +	40		°C	Тур	be of co	upling					Direct		
Temperature rise (by re	esistance)	80 [Class	5 B]		К	LR	LR withstand time (hot/cold)					15/30			S
Altitude above sea leve	I	1000			meter	Dir	Direction of rotation					В	i-directional		
Hazardous area classific	cation	NA				Sta	ndard r	otation				Cloc	kwise form	DE	
Zone classificati	on	NA				Pai	nt shad	e					RAL 5014		
Gas group		NA				Acc	cessorie	s							
Temperature cla	ass	NA					Aco	essory -	- 1				PTC 150°C		
Rotor type	otor type Aluminum Die cast					Accessory - 2					-				
Bearing type		Anti-friction ball				Accessory - 3					-				
DE / NDE bearing		6312 C3/62	212 C3			Ter	minal b	ox posit	ion				RHS		
Lubrication method						•					R x 3C x 50mm²/2 x M40 x 1.5				
Type of grease						Au	Auxiliary terminal box					NA			
0															

 $I_{\text{A}}/I_{\text{N}}$ - 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 -_

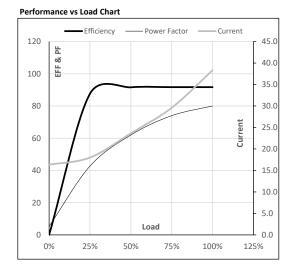
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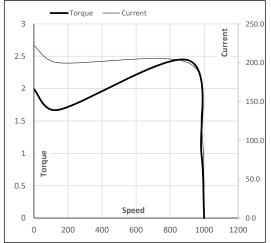
Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Δ	50	18.5	25.0	38.3	984	18.46	181.04	IE3	40	S1	1000	0.5179	255

Motor Load Data											
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL				
Current	А	16.3	18.0	23.6	29.6	38.3					
Torque	Nm	0.0	44.7	89.7	135.2	181.0					
Speed	r/min	1000	996	992	988	984					
Efficiency	%	0.0	87.6	91.6	91.7	91.7					
Power Factor	%	5.3	42.7	62.0	74.0	80.0					



Motor Speed Torque Data											
Load Point		LR	P-Up	BD	Rated	NL					
Speed	r/min	0	143	905	984	1000					
Current	А	222.2	200.0	116.5	38.3	16.3					
Torque	pu	2.0	1.7	2.4	1	0					

Starting Characteristics Chart



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

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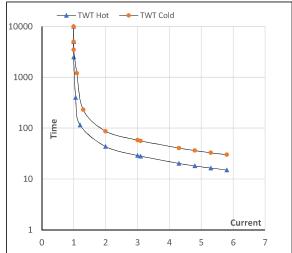
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Enclosure	U	Δ/Υ	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Δ	50	18.5	25.0	38.3	984	18.46	181.04	IE3	40	S1	1000	0.5179	255

Motor Speed Torque Data

Load		FL	I_1	I_2	l ₃	I_4	ا ₅	LR
TWT Hot	s	10000	44	29	22	17	16	15
TWT Cold	s	10000	87	58	43	38	31	30
Current	pu	1	2	3	4	5	5.5	5.8

Thermal Characteristics Chart



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

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