PRODUCT INFORMATION PACKET

Model No: TCA18P4A1131GAC010 Catalog No: TCA18P4A1131GAC010 TerraMAX® Cast Iron Motor, 25 HP, 3 Ph, 50 Hz, 400 V, 750 RPM, 225S Frame, TEFC



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Nameplate Specifications

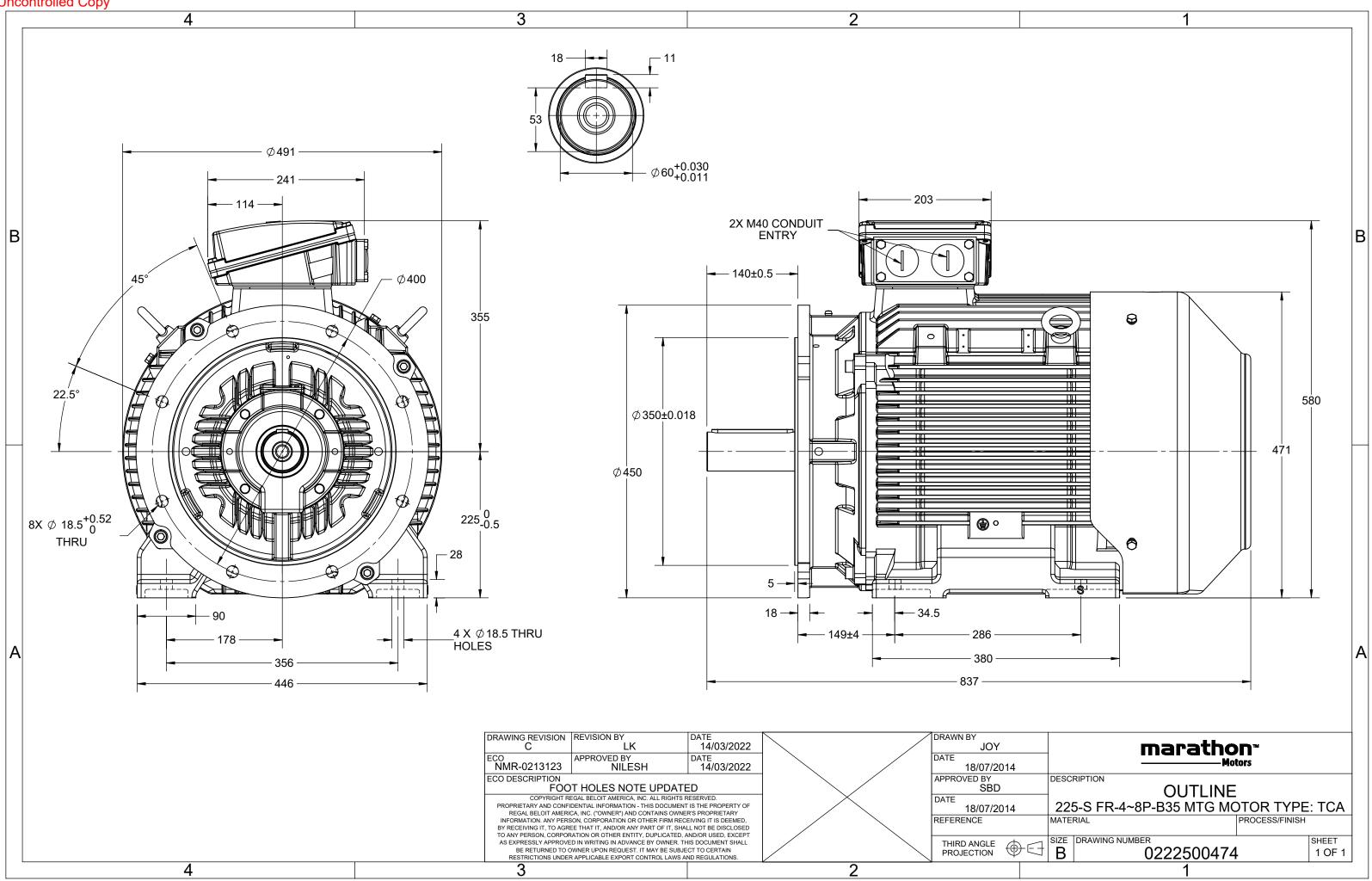
Output HP	25 Hp	Output KW	18.5 kW		
Frequency	50 Hz	Voltage	400 V		
Current	38.5 A	Speed	738 rpm		
Service Factor	1	Phase	3		
Efficiency	90.1 %	Power Factor	0.77		
Duty	S1	Insulation Class	F		
Frame	225\$	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Ambient Temperature	40 °C		
Drive End Bearing Size	6313	Opp Drive End Bearing Size	6213		
UL	No	CSA	No		
CE	Yes	IP Code	55		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	8	Rotation	Bi-Directional
Mounting	B35	Motor Orientation	Horizontal
Drive End Bearing	СЗ	Opp Drive End Bearing	С3
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	Тор		
Connection Drawing	8442000085	Outline Drawing	0222500474

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Model No. TCA18P4A1131GAC010

U Δ / Y f	P I	P I	n	Т	IE		% EFF at	tload	ł	PF	at lo	bad	I _A /I _N	T_A/T_N	$T_{\rm K}/T_{\rm N}$
(V) Conn [Hz] [[kW] [h	np] [A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
400 Δ 50 ž	18.5 2	25 38.5	738	241.24	IE3	-	90.1	90.1	90.5	0.77	0.72	0.59	5.2	1.7	2.3
Matartura		TCA				Der	waa af i	arataati	~ ~				IP 55		
Motor type		TEFC						orotecti	on				IM B35		
Enclosure		Cast Irc					unting 1						IC 411		
Frame Material							oling me								
Frame size		2255						ght - ap					385		kg
Duty		S1					-	ht - app	rox.				415		kg
Voltage variation *		± 10%					tor iner						0.8781		kgm ²
Frequency variation *		± 5%				Loa	d inerti	а				Custo	omer to Prov	vide	
Combined variation *		10%					ration le						2.2		mm/s
Design		N				Noi	se level	(1mete	er dista	nce fror	n motor)	61		dB(A)
Service factor		1.0				No	of star	ts hot/c	old/Equ	ally spr	ead		2/3/4		
Insulation class		F				Sta	rting me	ethod					DOL		
Ambient temperature		-20 to +	40		°C	Тур	e of cou	upling					Direct		
Temperature rise (by res	sistance)	80 [Class	5 B]		К	LR	withstar	nd time	(hot/co	ld)			15/30		s
Altitude above sea level		1000			meter	Dir	ection o	f rotatio	on			В	i-directional		
Hazardous area classifica	ation	NA				Sta	ndard r	otation				Cloc	kwise form	DE	
Zone classificatio	n	NA				Pai	nt shade	e					RAL 5014		
Gas group		NA				Acc	essorie	S							
Temperature clas	ss	NA					Acc	essory -	1				PTC 150°C		
Rotor type		Aluminum d	ie cast				Acc	essory -	2				-		
Bearing type		Anti-frictio	n ball				Acc	essory -	3				-		
DE / NDE bearing		6313 C3/6	213 C3			Ter	minal b	ox posit	ion				TOP		
Lubrication method		Regreasa	able					cable si		luit size	1R	x 3C x 5	50mm²/2 x N	140 x 1.5	
Type of grease	CHE	EVRON SRI-2 o	r Equiva	ent				erminal					NA		
//			•				,								

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

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

 $\rm T_A/\rm T_N$ - 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. Aus/Nz Brazil India Global IEC Efficiency Europe China GB 18613-2012 Grade 2 -IEC: 60034-30 Standards --_

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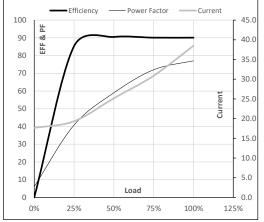


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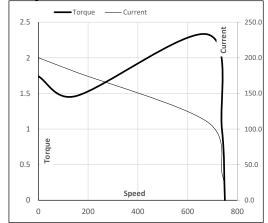
Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	18.5	25.0	38.5	738	24.60	241.24	IE3	40	S1	1000	0.8781	385

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	17.6	19.3	25.2	30.9	38.5	
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	

Performance vs Load Chart



Starting Characteristics Chart



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

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Motor Speed Torque Data

r/min

А

pu

LR

0

200.1

1.7

P-Up

150

180.1

1.5

BD

679

110.2

2.3

Rated

738

38.5

1

NL

750

17.6

0

Load Point

Speed

Current Torque

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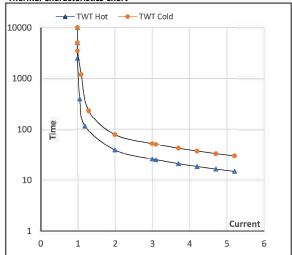
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Enclosure	U	Δ/Υ	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	18.5	25.0	38.5	738	24.60	241.24	IE3	40	S1	1000	0.8781	385

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	I 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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