PRODUCT INFORMATION PACKET

Model No: TCA18P4A1113GAC010 Catalog No: TCA18P4A1113GAC010 TerraMAX® Cast Iron Motor, 25 HP, 3 Ph, 50 Hz, 400 V, 750 RPM, 225S Frame, TEFC



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Motors

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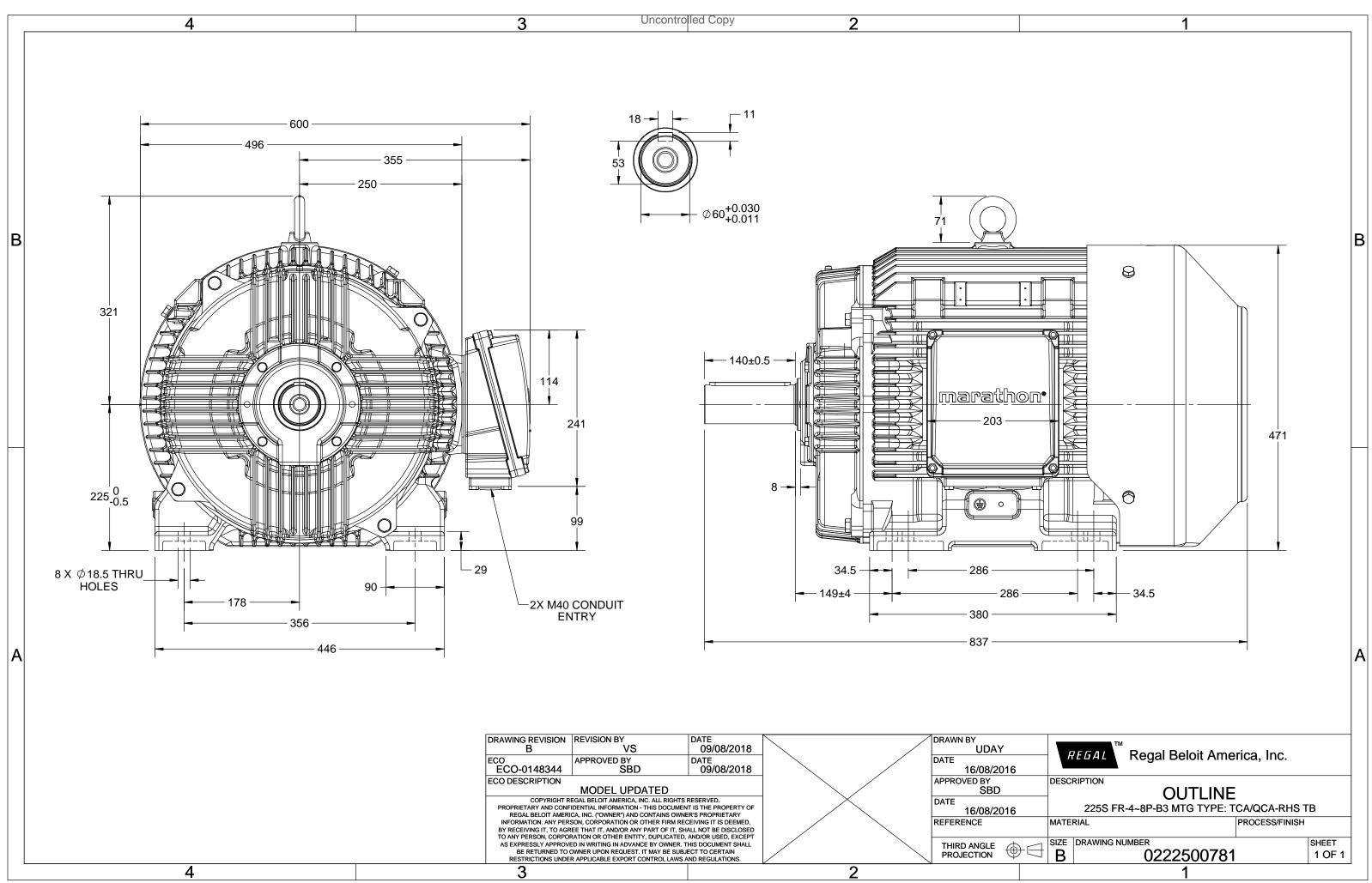
Nameplate Specifications

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	225S	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
Efficiency Class	IE3		

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		
Outline Drawing	0222500781	Connection Drawing	8442000085

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Model No. TCA18P4A1113GAC010

$U=\Delta/Y$	f	Р	Р	I	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]
400 Δ	50	18.5	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
															10.55		
Motor type				TCA						protecti	on				IP 55		
Enclosure				TEFC					Mounting type						IM B3		
Frame Material				Cast Irc					Cooling method					IC 411			
Frame size				2255				Mc	Motor weight - approx.					371			kg
Duty				S1				Gro	Gross weight - approx.					402			kg
Voltage variation	*			± 10%	,)			Mo	otor iner	tia					0.8781		kgm ²
Frequency variation	ion *			± 5%				Loa	ad inerti	а				Custo	Customer to Provide		
Combined variation	on *			10%				Vib	ration l	evel					2.2		mm/s
Design			N			No	ise leve	(1met	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 m	ethod					DOL		
Ambient tempera	ature			-20 to +	40		°C	Тур	be of co	upling					Direct		
Temperature rise	e (by re	esistance)	8					withstand time (hot/cold) 15/3					15/30		S		
Altitude above se	a leve			1000			meter	Dir	ection c	of rotation	on			В	i-directiona	l	
Hazardous area cl	lassific	cation		NA				Sta	ndard r	otation				Cloc	kwise form	DE	
Zone class	sificati	on		NA				Pai	Paint shade					RAL 5014			
Gas group	С			NA				Acc	Accessories								
Temperat	ture cla	ass		NA					Accessory - 1						PTC 150°C		
Rotor type			Alur	minum d	ie cast				Accessory - 2						-		
Bearing type			An	ti-frictio	n ball				Aco	cessory -	- 3				-		
DE / NDE bearing	Ţ		6313	3 C3/6	213 C3			Ter		ox posit					RHS		
Lubrication metho			F	Regreasa	ble					cable si		luit size	1R	x 3C x 5	50mm²/2 x l	M40 x 1.5	
Type of grease		CH	HEVRON	N SRI-2 o	r Equival	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 --_



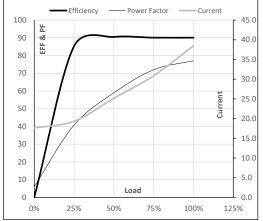


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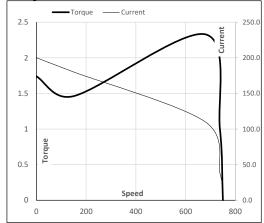
()() ()								IE	Amb	Duty	Elevation	Inertia	Weight
(V) Cor	nn [Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC 400 Δ	۵	18.5	25.0	38.5	738	24.60	241.24	IE3	40	S1	1000	0.8781	371

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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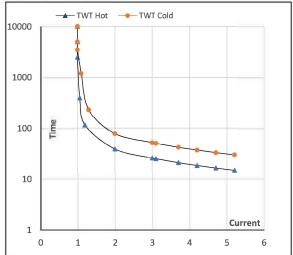
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Enclosure	U	Δ/Υ	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	18.5	25.0	38.5	738	24.60	241.24	IE3	40	S1	1000	0.8781	371

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I ₄	۱ 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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