PRODUCT INFORMATION PACKET

Model No: TCN18P4A1121GAC010 Catalog No: TCN18P4A1121GAC010 TerraMAX® Cast Iron Motor, 25 HP, 3 Ph, 50 Hz, 400 V, 750 RPM, 225S Frame, TEFC



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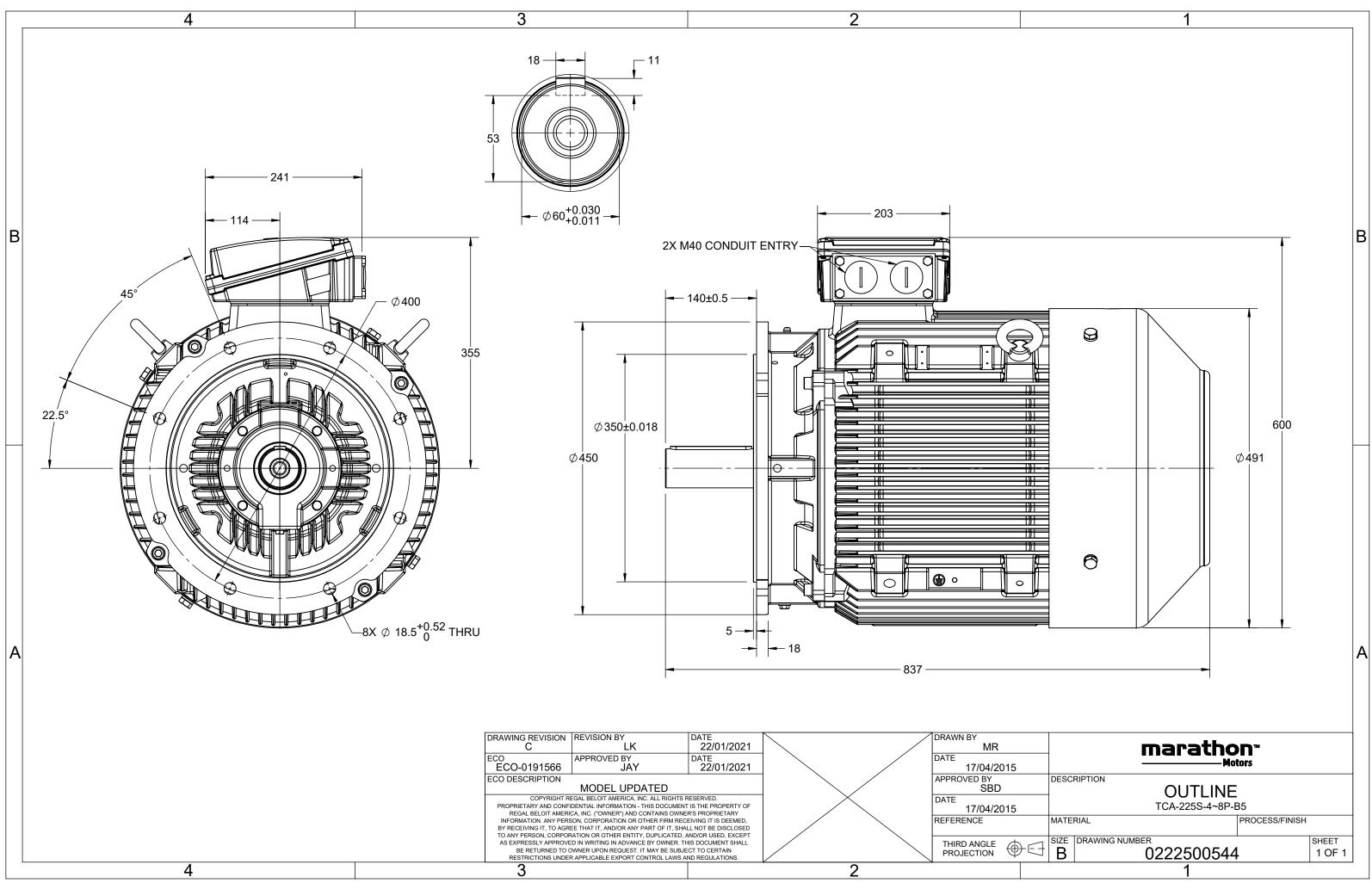
Nameplate Specifications

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	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		001	
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	B5	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	Тор		
Outline Drawing	0222500544	Connection Drawing	8442000085

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U	Δ / Y	f	Р	Р	I	n	Т	IE		% EFF a	at loa	d	PF	at_lo	bad	I _A /I _N	T_A/T_N	$T_{\rm K}/T_{\rm N}$
(∨)	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
					TON				-							IP 55		
Motor					TCN TEFC						protectio	n				IP 55 IM B5		
Enclos										unting t								
	Materia	I			Cast In					oling me						IC 411		
Frame	size				2255	,					ght - app					382		kg
Duty					S1	,					ht - appi	ΌΧ.				412		kg
U	e variatio				± 10%					tor iner					-	0.8781		kgm ²
	ency varia				± 5%					id inerti					Custo	omer to Provid	de	
	ned varia	ation *			10%					ration le						2.2		mm/s
Design					Ν						•	r distanc				61		dB(A)
	factor				1.0							old/Equa	ly sprea	ad		2/3/4		
Insulat	ion class	5			F					rting me	ethod					DOL		
Ambie	nt tempe	erature			-20 to +			°C	Тур	be of co	upling					Direct		
Tempe	rature ri	ise (by	resistan	ce)	80 [Clas	-		K	LR	withsta	nd time (hot/cold)			15/30		S
Altitud	e above	sea lev	rel		1000)		meter	Dir	ection o	of rotatio	n			В	i-directional		
Hazard	lous area	a classif	fication		Ex nA	4			Sta	ndard r	otation				Cloc	kwise form D	E	
	Zone cla	assifica	tion		Zone	2			Pai	nt shad	е					RAL 5014		
	Gas gro	up			IIC				Acc	essorie	s							
	Temper	rature o	class		Т3					Acc	essory -	1				PTC 150°C		
Rotor t	ype			Alı	uminum o	lie cast				Acc	essory -	2				-		
Bearin	g type			A	nti-frictio	on ball				Acc	essory -	3				-		
DE / N	DE beari	ng		63	13 C3/6	213 C3			Ter	minal b	ox positi	on				TOP		
Lubrica	ation me	thod			Regreas	able			Ma	ximum	cable siz	e/condu	it size	1F	x 3C x 5	50mm²/2 x M4	40 x 1.5	
Туре о	f grease			CHEVRO	ON SRI-2 d	or Equival	ent		Au	kiliary te	erminal b	юх				NA		

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

 T_A/T_N - Locked Rotor Torque / Rated Torque

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

NOTE

ATEX/IEC Ex certified as per IEC/EN 60079-0; IEC/EN 60079-15

All performance values at rated voltage and frequency.

All performance parameters are subjected to standard tolerance as per IEC 60034-1

* Voltage, Frequency and combined variation are as per IEC60034-1

Technical da	ta are subject to	o change. There may be slight var	iations between calculate	d values in this datashee	et and the motor name	plate figures.
Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC

Standards	IEC:60034-30-1	-	-	GEMS 2019	-	IEC:60034-30-1

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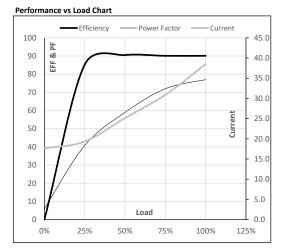


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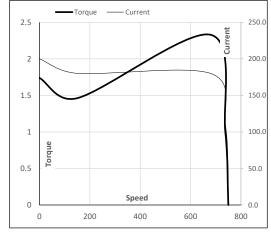
Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	18.5	25	38.5	738	24.60	241.24	IE3	40	S1	1000	0.8781	382

Motor Load Data

WOLDF LOAU D	dld						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	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	



Starting Characteristics Chart



Motor Speed	d Torque Dat	ta				
Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	150	679	738	750
Current	Α	200.1	180.1	110.2	38.5	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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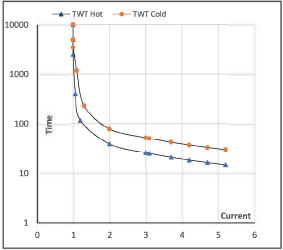


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Enclosure	U	Δ/Υ	f	Р	Р	1	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	18.5	25.0	38.5	738	24.60	241.24	IE3	40	S1	1000	0.8781	382

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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