PRODUCT INFORMATION PACKET

Model No: TCN18P4A1141GAC010 Catalog No: TCN18P4A1141GAC010 TerraMAX® Cast Iron Motor, 25 HP, 3 Ph, 50 Hz, 400 V, 750 RPM, 225S Frame, TEFC



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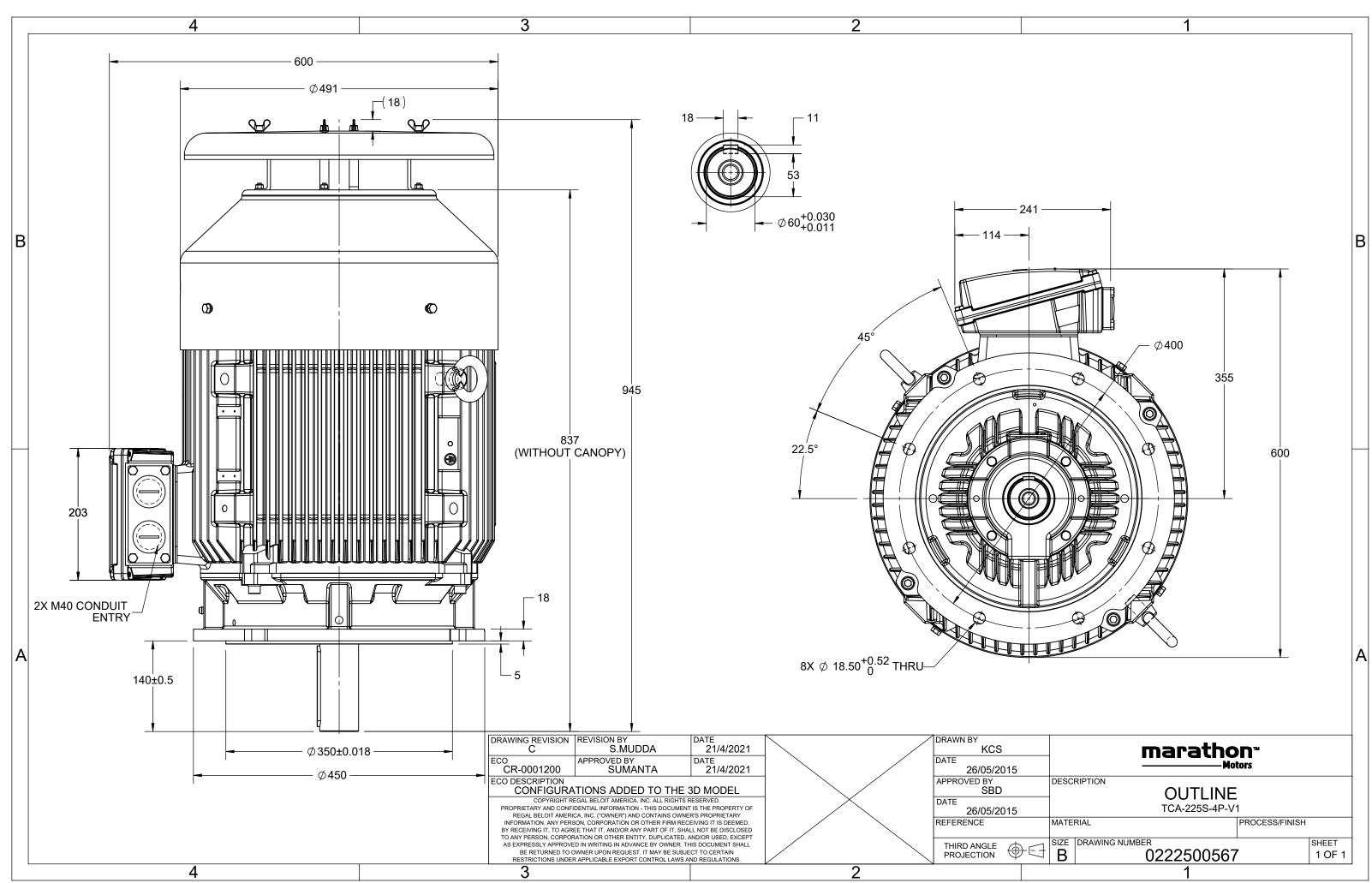
Nameplate Specifications

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	V1	Motor Orientation	Shaftdown
Drive End Bearing	СЗ	Opp Drive End Bearing	СЗ
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	943 mm	Frame Length	400 mm
Shaft Diameter	60 mm	Shaft Extension	140 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0222500567	Connection Drawing	8442000085

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3 of 7





TerraMAX[®]

Model No. TCN18P4A1141GAC010

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 _κ /T _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	
Motor	type				TCN				Dea	gree of	protectio	on				IP 55			
Enclosi					TEFC					unting						IM V1			
Frame	Material	I			Cast Iro	on			Cod	oling me	ethod					IC 411			
Frame	size				2255				Мо	tor wei	ght - app	rox.				385		kg	
Duty					S1				Gro	Gross weight - approx.						415		kg	
Voltage	e variatio	on *			± 10%	, b			Мо	Motor inertia					0.8781			kgm ²	
Freque	ncy varia	ation *			± 5%				Loa	Load inertia					Customer to Provide				
Combi	ned varia	ation *			10%				Vib	ration l	evel					2.2		mm/s	
Design					N				Noi	ise level	(1mete	r distanc	e from i	notor)		61		dB(A)	
Service	factor				1.0				No.	of star	ts hot/co	old/Equal	y sprea	d		2/3/4			
Insulat	ion class	;			F				Sta	rting m	ethod					DOL			
Ambier	nt tempe	erature			-20 to +	40		°C	Тур	e of co	upling					Direct			
Tempe	rature ri	se (by i	resistanc	e)	80 [Clas	5 B]		К	LR	withsta	nd time (hot/cold)			15/30		S	
Altitud	e above	sea lev	el		1000			meter	Dir	Direction of rotation					Bi-directional				
Hazard	ous area	a classif	ication		Ex nA				Sta	Standard rotation					Clockwise form DE				
	Zone cla	assifica	tion		Zone	2			Pai	Paint shade						RAL 5014			
	Gas gro	up			IIC				Acc	Accessories									
	Temper	rature o	lass		Т3					Acc	cessory -	1				PTC 150°C			
Rotor t	уре			Al	uminum d	ie cast				Acc	cessory -	2				-			
Bearing	g type			A	Anti-frictio	n ball				Acc	cessory -	3				-			
DE / NI	DE bearii	ng		63	13 C3/6	213 C3			Ter	minal b	ox positi	on				TOP			
Lubrica	tion me	thod			Regrease	able			Ma	ximum	cable siz	e/condui	t size	1R	x 3C x 5	50mm²/2 x M	40 x 1.5		
Type o	f grease			CHEVRO	ON SRI-2 c	r Equival	ent		Aux	kiliary te	erminal b	ох				NA			
. /	a alka d D	atas C		Datad C	unant				- <i>'</i>	T De-	a kalan wa	Torous	Deter	-					
	ocked R Locked I								ч _к /	і _N - вге	akuown	Torque /	rated I	orque					

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 chang	ge. There may be slight v	ariations between calculated	l values in this datasheet	and the motor namep	late 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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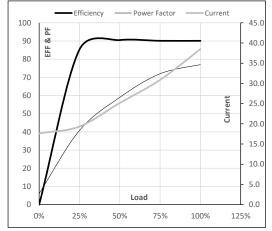
Model No. TCN18P4A1141GAC010

	$\Delta / 1$	I	Р	Р	1	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 0	50	18.5	25	38.5	738	24.60	241.24	IE3	40	S1	1000	0.8781	385

Motor Load Data

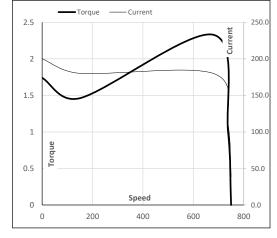
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	17.6	19.3	25.2	30.9	38.5	
Torque	Nm	0.0	59.6	119.6	180.1	241.2	
Speed	r/min	750	747	744	742	738	
Efficiency	%	0.0	85.3	90.5	90.1	90.1	
Power Factor	%	6.1	40.8	59.0	72.0	77.0	

Performance vs Load Chart



Motor Speed	I Torque Dat	ta					
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	150	679	738	750	
Current	А	200.1	180.1	110.2	38.5	17.6	
Torque	pu	1.7	1.5	2.3	1	0	

Starting Characteristics Chart



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

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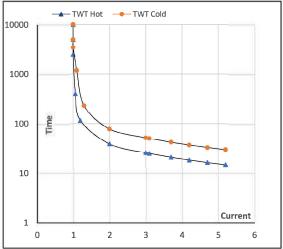


Model No. TCN18P4A1141GAC010

Enclosure	U	Δ/Υ	f	Р	Р	Т	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	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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