PRODUCT INFORMATION PACKET

Model No: TCN18P3A1141GAC010 Catalog No: TCN18P3A1141GAC010 TerraMAX® Cast Iron Motor, 25 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 200L Frame, TEFC



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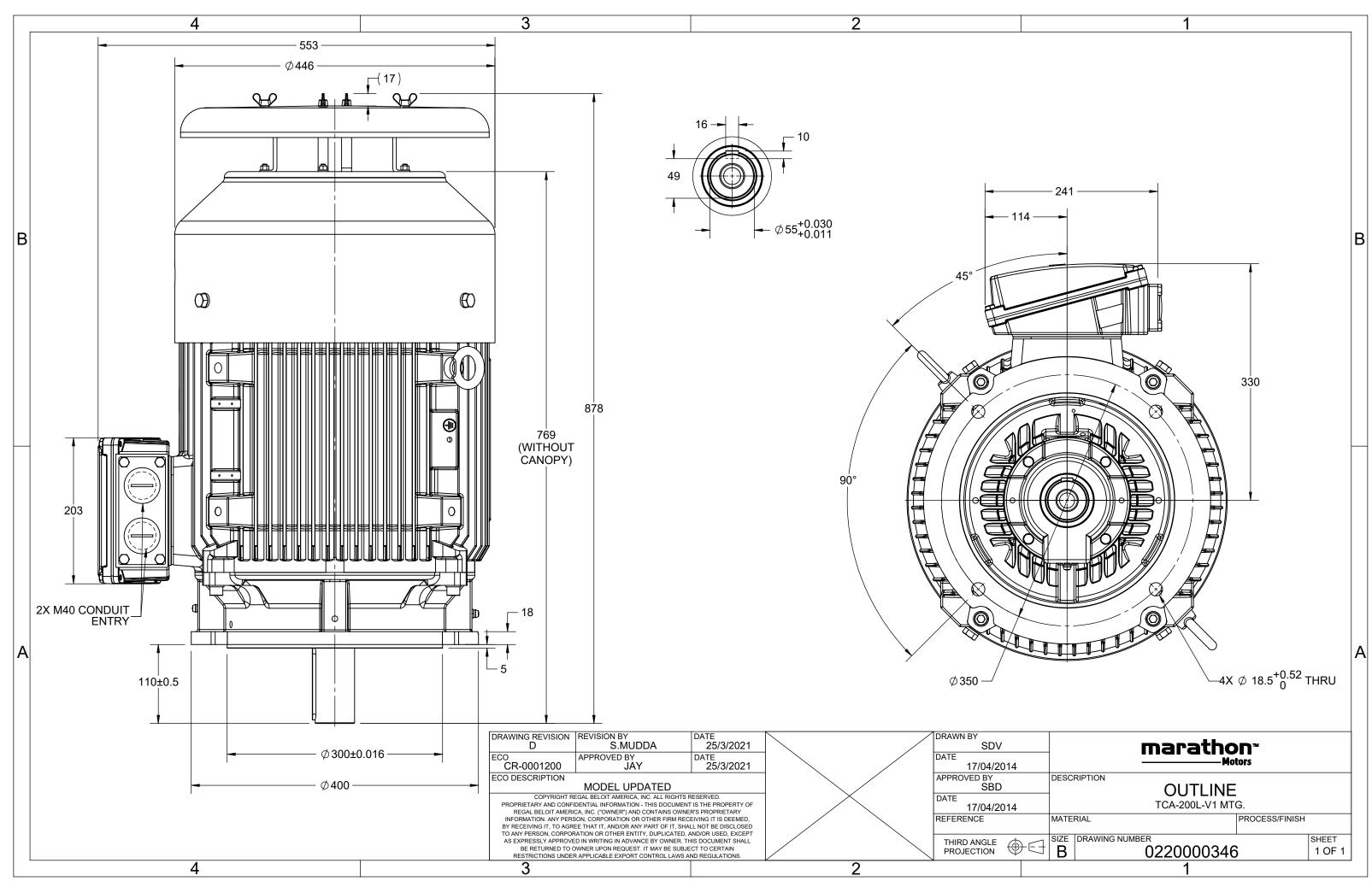
Nameplate Specifications

Output HP	25 Нр	Output KW	18.5 kW
Frequency	50 Hz	Voltage	400 V
Current	36.4 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
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection Drive End Bearing Size	No Protection 6312	Ambient Temperature 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	V1	Motor Orientation	Shaftdown	
Drive End Bearing	C3	Opp Drive End Bearing	C3	
Frame Material	Cast Iron	Shaft Type	Keyed	
Overall Length	876 mm	Frame Length	370 mm	
Shaft Diameter	55 mm	Shaft Extension	110 mm	
Assembly/Box Mounting	Тор			
Connection Drawing	8442000085	Outline Drawing	0220000346	

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Model No. TCN18P3A1141GAC010

U	Δ / Y	f	Р	Р	I	n	Т	IE		% EFF	at loa	d	PI	Fat_lo	bad	I _A /I _N	T_A/T_N	T _K /T _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	36.4	984	181.04	IE3	-	91.7	91.7	91.6	0.8	0.74	0.62	5.8	2.0	2.4
Motor	type				TCN				Dea	gree of	protectio	on				IP 55		
Enclosi					TEFC					unting						IM V1		
Frame	Materia	I			Cast Ire	on				oling me						IC 411		
Frame	size				200L				Мо	tor wei	ght - app	orox.				268		kg
Duty					S1				Gro	oss weig	ght - app	rox.				298		kg
Voltage	e variatio	on *			± 10%	6			Мо	tor ine	rtia					0.5179		kgm ²
Freque	ncy varia	ation *			± 5%				Loa	id inerti	ia				Custo	omer to Prov	/ide	
Combi	ned varia	ation *			10%				Vib	ration l	evel					2.2		mm/s
Design					Ν				Noi	ise leve	l (1mete	r distanc	e from	motor)		62		dB(A)
Service	factor				1.0				No.	of star	ts hot/co	old/Equal	ly 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	resistand	ce)	80 [Clas	s B]		К	LR	withsta	nd time (hot/cold)			15/30		S
Altitud	e above	sea lev	el		1000)		meter	Dir	ection o	of rotatio	n			В	i-directional		
Hazard	lous area	a classif	ication		Ex nA	۱			Sta	ndard r	otation				Clockwise form DE			
	Zone cla	assifica	tion		Zone	2			Pai	nt shad	e					RAL 5014		
	Gas gro	up			IIC				Acc	essorie	S							
	Temper	rature o	class		Т3					Ac	cessory -	1				PTC 150°C		
Rotor t	уре			Al	uminum [Die cast				Ac	cessory -	2				-		
Bearing	g type				Anti-frictic					Ac	cessory -	3				-		
DE / NI	DE beari	ng		63	12 C3/6				Ter	minal b	ox positi	on				TOP		
Lubrica	ation me	thod			Regrease				Ma	ximum	cable siz	e/condui	t size	16	x 3C x 5	50mm²/2 x N	140 x 1.5	
Type o	f grease			CHEVR	ON SRI-2 c	or Equival	ent		Aux	kiliary te	erminal b	юх				NA		
	ocked R								Т _к /	T _N - Bre	akdown	Torque /	Rated ⁻	Forque				
T_A/T_N -	Locked	Rotor T	orque /	Rated T	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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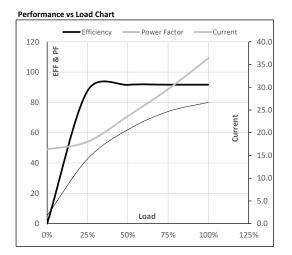


Model No. TCN18P3A1141GAC010

Enclosure U	0 Δ	/Y f	Р	Р	1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
(V	(V) C	onn [Hz	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC 40	100	Δ 50	18.5	25	36.4	984	18.46	181.04	IE3	40	S1	1000	0.5179	268

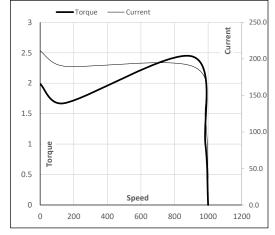
Motor Load Data

	NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
А	16.3	18.0	23.6	29.6	36.4	
Nm	0.0	44.7	89.7	135.2	181.0	
r/min	1000	996	992	988	984	
%	0.0	87.6	91.6	91.7	91.7	
%	5.3	42.7	62.0	74.0	80.0	
	Nm r/min %	A 16.3 Nm 0.0 r/min 1000 % 0.0	A 16.3 18.0 Nm 0.0 44.7 r/min 1000 996 % 0.0 87.6	A 16.3 18.0 23.6 Nm 0.0 44.7 89.7 r/min 1000 996 992 % 0.0 87.6 91.6	A 16.3 18.0 23.6 29.6 Nm 0.0 44.7 89.7 135.2 r/min 1000 996 992 988 % 0.0 87.6 91.6 91.7	A 16.3 18.0 23.6 29.6 36.4 Nm 0.0 44.7 89.7 135.2 181.0 r/min 1000 996 992 988 984 % 0.0 87.6 91.6 91.7 91.7



Motor Spee	d Torque Dat	ta					
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	143	905	984	1000	
Current	А	211.1	190.0	116.5	36.4	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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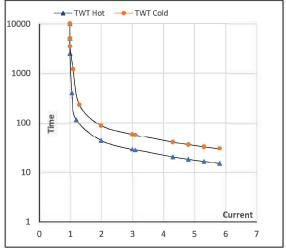
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Enclosure	U	Δ/Υ	f	Р	Р	- I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	18.5	25.0	36.4	984	18.46	181.04	IE3	40	S1	1000	0.5179	268

Motor Speed Torque Data

Load		FL	I_1	l ₂	3	I_4	I 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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