PRODUCT INFORMATION PACKET

Model No: TCN1P11A1141GAC010 Catalog No: TCN1P11A1141GAC010 TerraMAX® Cast Iron Motor, 1.50 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 80M Frame, TEFC



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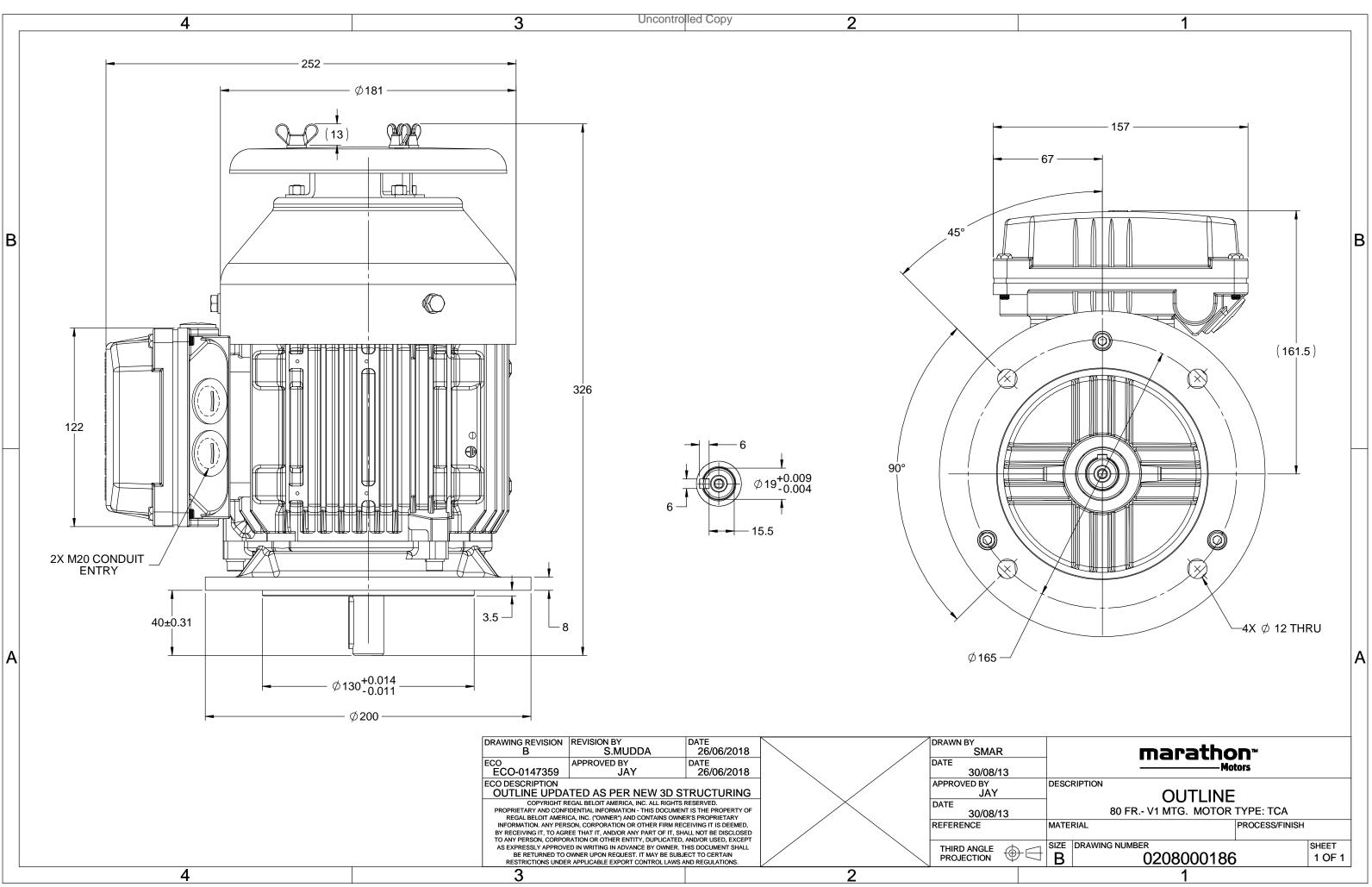
Nameplate Specifications

Output HP	1.50 Hp	Output KW	1.1 kW
Frequency	50 Hz	Voltage	400 V
Current	2.3 A	Speed	2878 rpm
Service Factor	1	Phase	3
Efficiency	82.7 %	Power Factor	0.84
Duty	S1	Insulation Class	F
Frame	80M	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	80M No Protection	Enclosure Ambient Temperature	Totally Enclosed Fan Cooled 40 °C
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection Drive End Bearing Size	No Protection 6204	Ambient Temperature Opp Drive End Bearing Size	40 °C 6204

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	Rotation	Bi-Directional
Mounting	V1	Motor Orientation	Shaftdown
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	326 mm	Frame Length	140 mm
Shaft Diameter	19 mm	Shaft Extension	40 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0208000186

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U	Δ / Y	f	Р	Р	I	n	т	IE		% EFF	at loa	d	PF	at_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		1/2FL	FL		1/2FL	[pu]	[pu]	[pu]
400	Y	50	1.1	1.5	2.3	2878	3.71	IE3	-	82.7	82.7	79.3	0.84	0.77	0.64	6.8	3.2	3.3
Matan	huna				TCN				Dec	ana af	protectio					IP 55		
Motor Enclosu					TEFC					ounting		חו				IM V1		
	Material				Cast In					oling me						IC 411		
Frame					80M					•	ght - app	rov				22		ka
	SIZE				S1						• • • •					23		kg
Duty	e variatio	·n *			± 10%	6				otor iner	ght - appi	IOX.				0.0016		kg kgm ²
	ncy varia				± 5%					nd inerti					Cust	omer to Prov	vide	Kgill
	ncy varia				10%					ration l					Cust	1.6	viac	mm/s
Design		liun			10/0 N							r distanc	o from r	notor)		56		dB(A)
Service	factor				1.0						•	old/Equal		,		2/3/4		UD(A)
	on class				F					rting m		Ju/Lyuai	iy spiea	u		DOL		
	nt tempe				-20 to +	-40		°C		be of co						Direct		
	rature ri		esistanc	-e)	80 [Clas			К				hot/cold	۱			7/15		s
	e above :	• •		,	1000	-		meter			of rotatio)		В	i-directional	1	3
	ous area				Ex n/			meter		ndard r						ckwise form		
Thazara	Zone cla				Zone					nt shad						RAL 5014		
	Gas gro				IIC					cessorie								
	Temper	•	lass		Т3				, 100		cessory -	1				PTC 150°C		
Rotor t				Al	uminum I	Die cast					cessory -					-		
Bearing				A	Anti-frictio	on ball					cessory -					-		
	DE bearin	ng		620	04-2Z /	6204-2Z			Ter		ox positi					ТОР		
	tion met	•		(Greased for	or life						e/condui	t size	1R	x 3C x 3	10mm²/2 x N	И20 x 1.5	
Type of	fgrease				NA						erminal b					NA		
I _A /I _N - L	ocked Re	otor Cu	rrent / F	Rated Cu	urrent				Τ _κ /	T _N - Bre	akdown	Torque /	Rated T	orque				
T _A /T _N -	Locked I	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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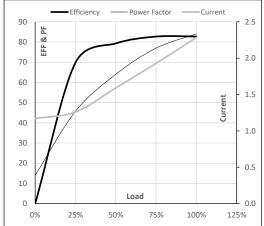
Model No. TCN1P11A1141GAC010

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	Y	50	1.1	1.5	2.3	2878	0.38	3.71	IE3	40	S1	1000	0.0016	22

Motor Load Data

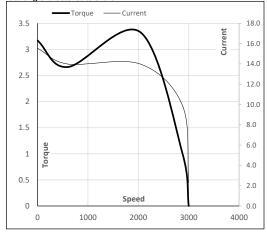
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	1.2	1.3	1.6	1.9	2.3	
Torque	Nm	0.0	0.9	1.8	2.8	3.7	
Speed	r/min	3000	2970	2943	2912	2878	
Efficiency	%	0.0	69.8	79.3	82.7	82.7	
Power Factor	%	14.0	45.7	64.0	77.0	84.0	

Performance vs Load Chart



Motor Speed	Torque Dat	а					
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	600	2040	2878	3000	
Current	А	15.5	14.0	9.9	2.3	1.2	
Torque	pu	3.2	2.7	3.3	1	0	

Starting Characteristics Chart



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

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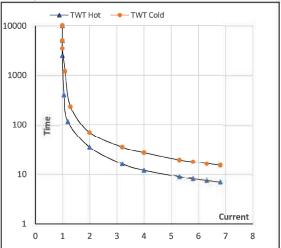
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Enclosure	U	Δ/Υ	f	Р	Р	Т	n	Т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Y	50	1.1	1.5	2.3	2878	0.38	3.71	IE3	40	S1	1000	0.0016	22

Motor Speed	Torque	Data
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Load		FL	I_1	l ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	35	20	12	10	9	7
TWT Cold	s	10000	70	40	27	23	19	15
Current	pu	1	2	3	4	5	5.5	6.8

Thermal Characteristics Chart



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

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