PRODUCT INFORMATION PACKET

Model No: TCNP752A1141GAC010 Catalog No: TCNP752A1141GAC010 TerraMAX® Cast Iron Motor, 1 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 80M Frame, TEFC



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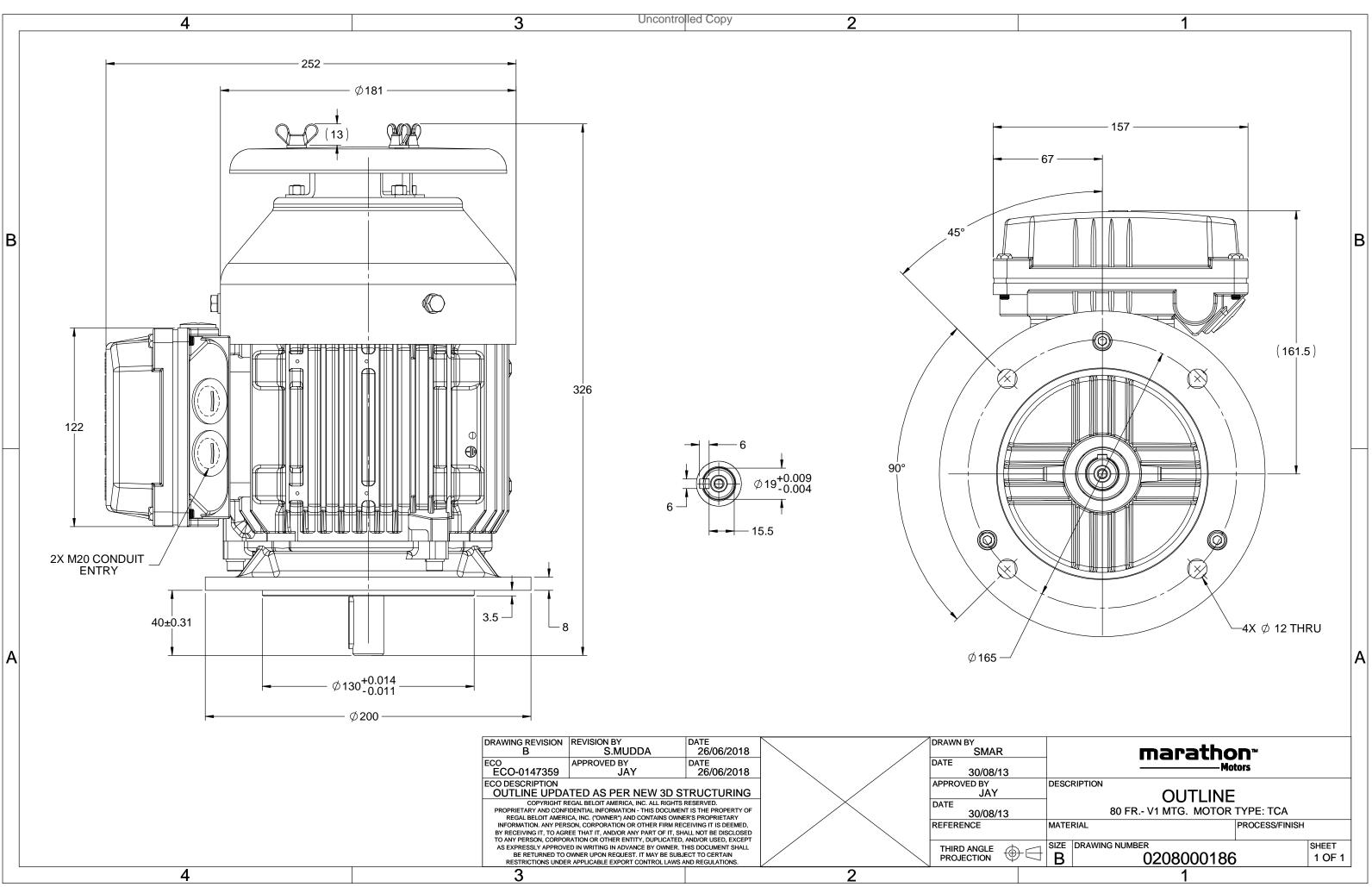
Nameplate Specifications

Output HP	1 Hp	Output KW	0.75 kW
Frequency	50 Hz	Voltage	400 V
Current	1.8 A	Speed	1446 rpm
Service Factor	1	Phase	3
Efficiency	82.5 %	Power Factor	0.75
Duty	S1	Insulation Class	F
Frame	80M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6204	Opp Drive End Bearing Size	6204
UL	No	CSA	No
CE	Yes	IP Code	55

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	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	PI	at_lo	bad	I _A /I _N	T_A/T_N	T _K /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	Y	50	0.75	1.0	1.7	1446	4.92	IE3	-	82.5	82.5	77.6	0.75	0.66	0.51	6.6	3.0	3
Motor	type				TCN				Dec	ree of	protectio	n				IP 55		
Enclos					TEFC	2				unting						IM V1		
	Material	I			Cast Ir	on				oling me						IC 411		
Frame		-			80N	1				•	ght - app	rox.				23		kg
Duty					S1						sht - appi					24		kg
	e variatio	on *			± 10%	6				tor ine						0.0031		kgm ²
Freque	ge variation * ± 10% uency variation * ± 5% bined variation * 10% n N													Cust	omer to Prov	/ide		
Combi	ned varia	ation *			10%				Vib	ration l	evel					1.6		mm/s
Design					Ν				Noi	ise leve	l (1mete	r distanc	e from i	notor)		54		dB(A)
Service	factor				1.0				No.	of star	ts hot/co	ld/Equal	ly sprea	d		2/3/4		
Insulat	ion class				F				Sta	rting m	ethod					DOL		
Ambie	nt tempe	erature			-20 to -	+40		°C	Тур	e of co	upling					Direct		
Tempe	rature ri	se (by i	resistand	ce)	80 [Clas	sB]		К	LR v	withsta	nd time (hot/cold)			15/30		s
Altitud	e above	sea lev	el		1000)		meter	Dire	Direction of rotation					Bi-directional			
Hazard	lous area	a classif	ication		Ex n/	4			Sta	ndard r	otation				Clockwise form DE			
	Zone cla	assifica	tion		Zone	2			Pair	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 l	Die cast				Ac	cessory -	2				-		
Bearin	g type				Anti-frictio					Ac	cessory -	3				-		
DE / N	DE beariı	ng		62	04-2Z /	6204-2Z			Ter	minal b	ox positi	on				TOP		
Lubrica	ation me	thod		(Greased f	or life			Ma	ximum	cable siz	e/condui	t size	1F	x 3C x 3	10mm²/2 x N	/120 x 1.5	
Туре о	f grease				NA				Aux	kiliary te	erminal b	ох				NA		
	ocked R								Т _к /-	T _N - Bre	akdown	Torque /	Rated 1	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	variations between calculated	I 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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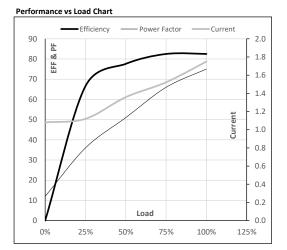


Model No. TCNP752A1141GAC010

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	0.75	1.0	1.7	1446	0.50	4.92	IE3	40	S1	1000	0.0031	23.1

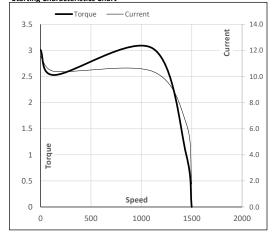
Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	1.1	1.1	1.4	1.5	1.7	
Torque	Nm	0.0	1.2	2.4	3.7	4.9	
Speed	r/min	1500	1486	1474	1461	1446	
Efficiency	%	0.0	66.6	77.6	82.5	82.5	
Power Factor	%	12.0	36.0	51.0	66.0	75.0	
Power Factor	%	12.0	36.0	51.0	66.0	75.0	



Motor Speed Torque Data Load Point LR P-Up BD Rated NL Speed r/min 0 136 1112 1446 1500 11.5 10.4 6.4 1.7 1.1 Current Α 3.0 2.5 3.0 1 0 Torque pu

Starting Characteristics Chart



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

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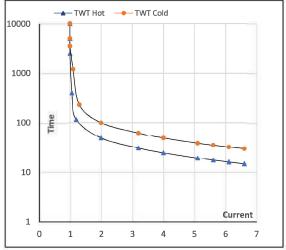
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Enclosure	U	Δ/Υ	f	Р	Р	Т	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Y	50	0.75	1.0	1.7	1446	0.50	4.92	IE3	40	S1	1000	0.0031	23

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	50	34	25	22	18	15
TWT Cold	s	10000	99	65	50	42	37	30
Current	pu	1	2	3	4	5	5.5	6.6

Thermal Characteristics Chart



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

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