PRODUCT INFORMATION PACKET

Model No: TCAP751AF131GAC010 Catalog No: TCAP751AF131GAC010 TerraMAX® Cast Iron Motor, 1 HP, 3 Ph, 50 Hz, 380 V, 3000 RPM, 80M Frame, TEFC



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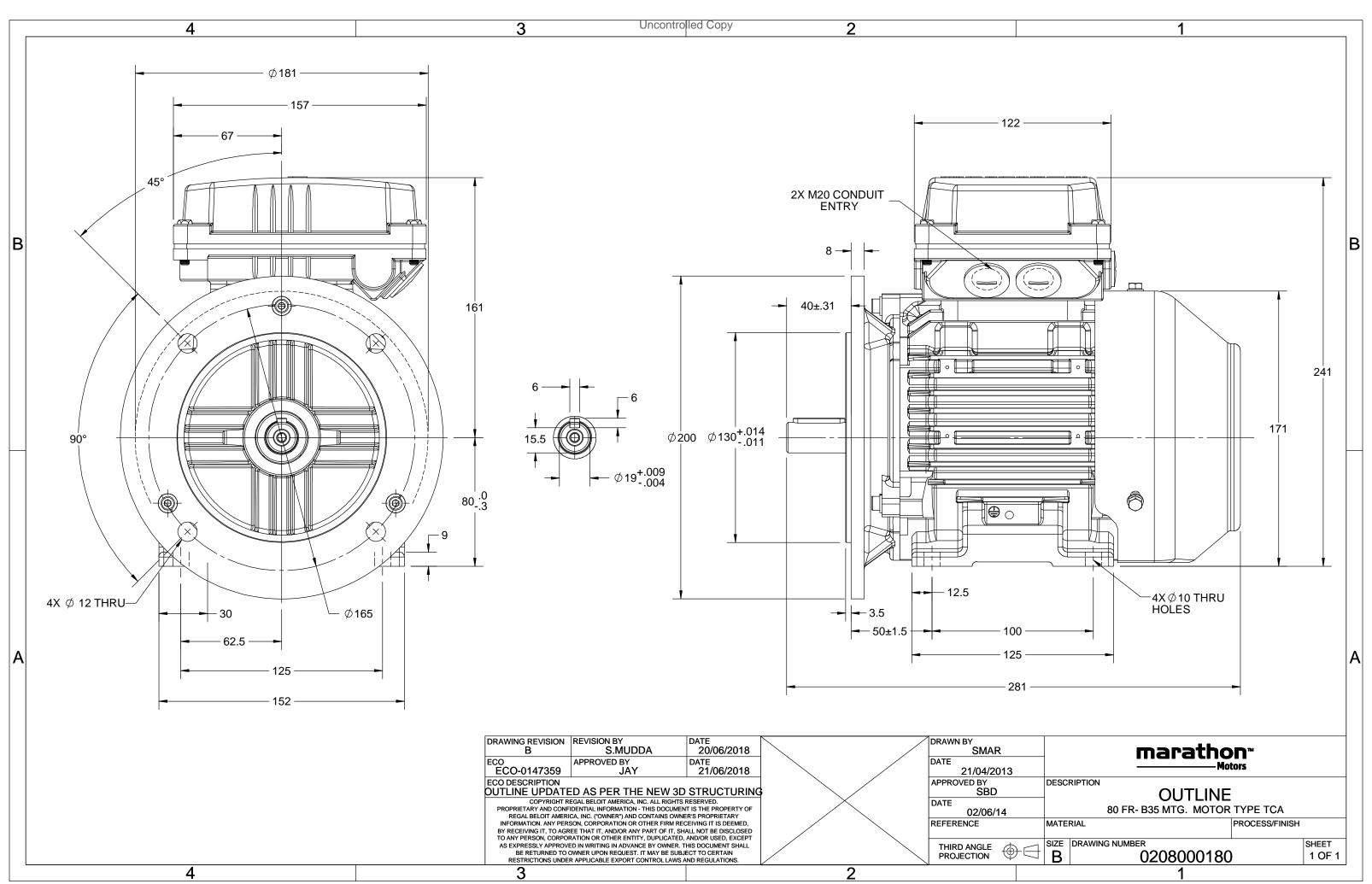
Nameplate Specifications

Output HP	1 Hp	Output KW	0.75 kW
Frequency	50 Hz	Voltage	380 V
Current	1.7 A	Speed	2880 rpm
Service Factor	1	Phase	3
Efficiency	80.7 %	Power Factor	0.83
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
Drive End Bearing Size	6204 No	Opp Drive End Bearing Size CSA	6204 No

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	Rotation	Bi-Directional
Mounting	B35	Motor Orientation	Horizontal
Drive End Bearing	2Z-C3	Opp Drive End Bearing	2Z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	281 mm	Frame Length	140 mm
Shaft Diameter	19 mm	Shaft Extension	40 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0208000180

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U	Δ / Y	f	Р	Р	Ι	n	Т	IE		% EFF a	t load	ł	PF	at lo	bad	I _A /I _N	T_A/T_N	$T_{\rm K}/T_{\rm N}$	
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]	
380	Y	50	0.75	1	1.7	2880	2.47	IE3	-	80.7	80.7	75.6	0.83	0.75	0.61	6.5	3.0	3.3	
	•				ТСА														
Motor	<i>'</i> ''				TEFC						protecti	on							
Enclosu					Cast Irc					unting									
	Materia	-			80M	n				oling me					IP 55 IM B35 IC 411 20 21 0.0013 Customer to Provide 1.6 0tor) 56 2/3/4 DOL				
Frame	size				S1						ght - ap				21 0.0013				
Duty											ht - app	rox.						kg kgm ²	
	e variatio				± 10%					Motor inertia									
	ncy varia				± 5%											9			
	ned varia	ation *			10%										mm/s				
Design					N					Noise level (1meter distance from motor)				.)			dB(A)		
Service	factor				1.0						ts hot/c	old/Equ	ally spr	ead					
Insulati	ion class				F					rting m									
Ambier	nt tempe	erature			-20 to +			°C	Тур	e of co	upling					Direct			
Tempe	rature ri	se (by i	resistanc	e)	80 [Class	-		K	LR	withsta	nd time	(hot/co	ld)			10/20		S	
Altitud	e above	sea lev	el		1000			meter	Dir	ection c	of rotation	on			В	i-directional			
Hazard	ous area	a classif	ication		NA				Sta	ndard r	otation				Cloc	ckwise form DE			
	Zone cla	assifica	tion		NA				Pai	nt shad	e					RAL 5014			
	Gas gro	up			NA				Acc	essorie	s								
	Temper	ature o	class		NA					Acc	essory -	1				PTC 150°C			
Rotor t	уре			Alu	uminum D	ie cast				Acc	essory -	2				-			
Bearing	g type			A	nti-frictio	n ball				Acc	essory -	3				-			
DE / NE	DE beari	ng		620	04-2Z / 6	5204-2Z			Ter	minal b	ox posit	ion				ТОР			
Lubrica	tion me	thod		G	ireased fo	r life			Ma	ximum	cable si	ze/cond	uit size	1R	x 3C x 1	10mm²/2 x M20) x 1.5		
Type of	f grease				NA				Aux	kiliary te	erminal	box				NA			

 $I_{\text{A}}/I_{\text{N}}$ - Locked Rotor Current / Rated Current

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

 $\rm T_A/\rm T_N$ - Locked Rotor Torque / Rated Torque

NOTE

All performance values at rated voltage and frequency.

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

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

Technical data are subject to change. There may be discrepancies between calculated and name plate values. Aus/Nz Brazil India Global IEC Efficiency Europe China GB 18613-2012 Grade 2 --IEC: 60034-30 Standards -_

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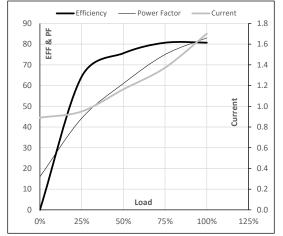
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Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Y	50	0.75	1.0	1.7	2880	0.25	2.47	IE3	40	S1	1000	0.0013	20

Motor Load Data												
	NL	1/4FL	1/2FL	3/4FL	FL	5/4FL						
А	0.9	1.0	1.2	1.4	1.7							
Nm	0.0	0.6	1.2	1.8	2.5							
r/min	3000	2969	2943	2913	2880							
%	0.0	64.3	75.6	80.7	80.7							
%	16.0	44.2	61.0	75.0	83.0							
	A Nm r/min %	NL A 0.9 Nm 0.0 r/min 3000 % 0.0	NL 1/4FL A 0.9 1.0 Nm 0.0 0.6 r/min 3000 2969 % 0.0 64.3	NL 1/4FL 1/2FL A 0.9 1.0 1.2 Nm 0.0 0.6 1.2 r/min 3000 2969 2943 % 0.0 64.3 75.6	NL 1/4FL 1/2FL 3/4FL A 0.9 1.0 1.2 1.4 Nm 0.0 0.6 1.2 1.8 r/min 3000 2969 2943 2913 % 0.0 64.3 75.6 80.7	NL 1/4FL 1/2FL 3/4FL FL A 0.9 1.0 1.2 1.4 1.7 Nm 0.0 0.6 1.2 1.8 2.5 r/min 3000 2969 2943 2913 2880 % 0.0 64.3 75.6 80.7 80.7						

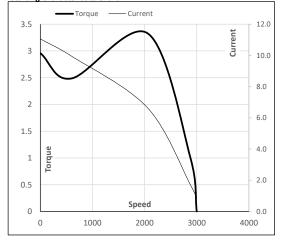
Performance vs Load Chart



Motor Speed Torque Data

Motor Spee	d Torque Dat	а				
Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	600	2058	2880	3000
Current	А	11.1	10.0	6.6	1.7	0.9
Torque	pu	3.0	2.5	3.3	1	0

Starting Characteristics Chart



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

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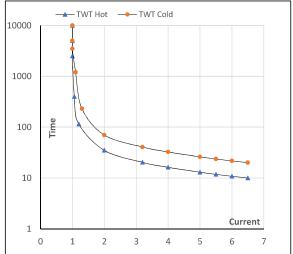
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Y	50	0.75	1.0	1.7	2880	0.25	2.47	IE3	40	S1	1000	0.0013	20
	500	•	50	0.75	1.0	1.7	2000	0.25	2.47	123	40	51	1000	0.0015	

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	l ₅	LR
TWT Hot	s	10000	35	22	16	13	12	10
TWT Cold	s	10000	70	43	33	26	24	20
Current	pu	1	2	3	4	5	5.5	6.5

Thermal Characteristics Chart



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

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