PRODUCT INFORMATION PACKET

Model No: TCAP752AF121GAC010 Catalog No: TCAP752AF121GAC010 TerraMAX® Cast Iron Motor, 1 HP, 3 Ph, 50 Hz, 380 V, 1500 RPM, 80M Frame, TEFC



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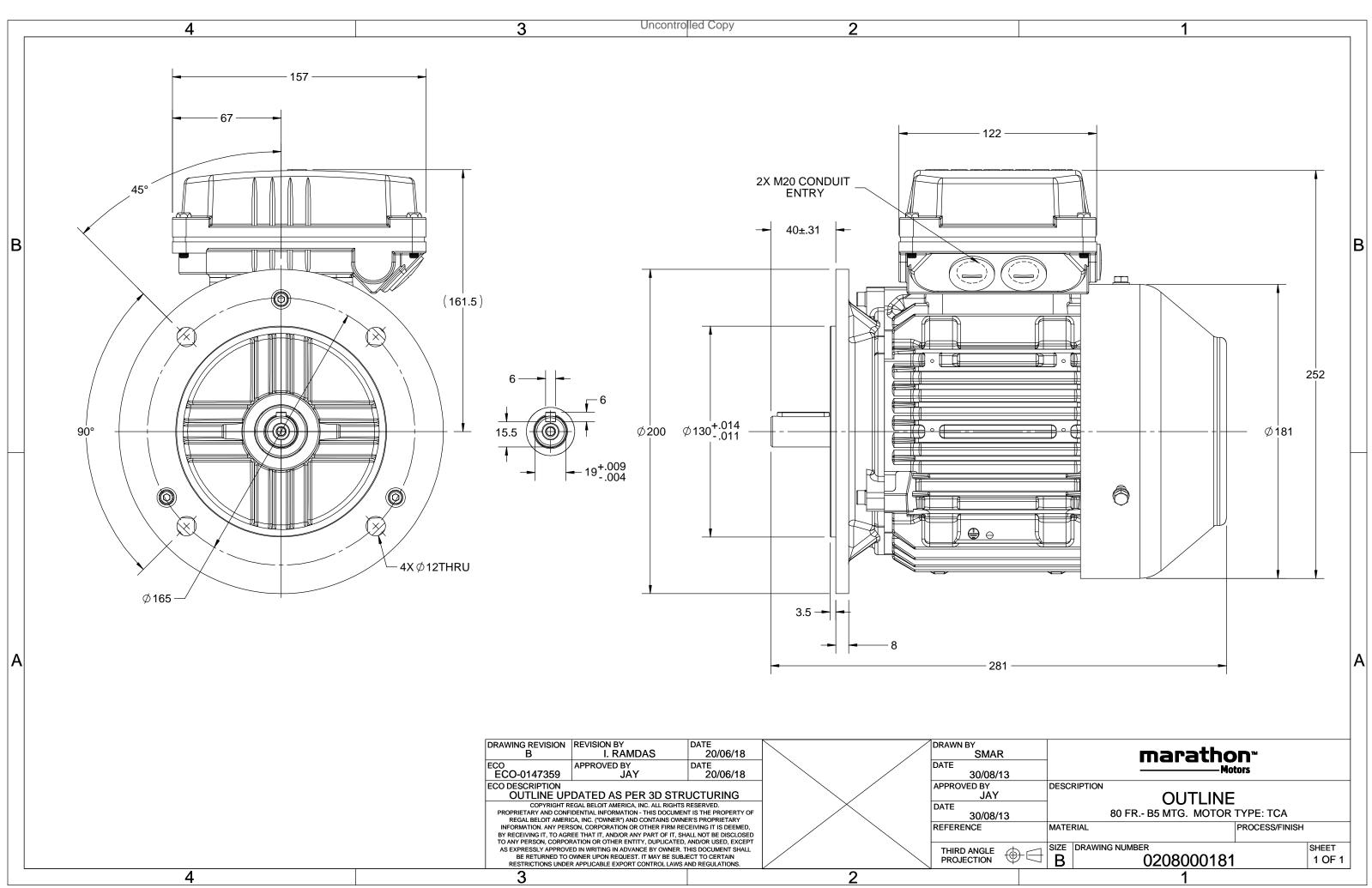
Nameplate Specifications

Output HP	1 Нр	Output KW	0.75 kW		
Frequency	50 Hz	Voltage	380 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		
Traine	OUIVI	Eliciosule	Totally Enclosed Fall 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 6204	Ambient Temperature Opp Drive End Bearing Size	40 °C 6204		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	B5	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		
Outline Drawing	0208000181	Connection Drawing	8442000085

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(V) (380	Conn				I	n	Т	IE		% EFF at	t load	1	PF	at lo	bad	I _A /I _N	T_A/T_N	T_{K}/T_{N}	
380		[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]	
	Y	50	0.75	1	1.84	1446	4.92	IE3	-	82.5	82.5	77.6	0.75	0.66	0.51	6.6	3.0	3.0	
Motor ty	(n o				TCA				Dor	trop of	orotecti	00				IP 55			
Enclosure	•				TEFC							011				IM B5			
Frame M	-				Cast Irc				Mounting type Cooling method						IC 411				
Frame siz					80M	211			Motor weight - approx.							23			
Duty	20				S1					Gross weight - approx.						24			
Voltage v	variatio	n *			± 10%	Ś				Motor inertia						0.0031			
Frequenc					± 5%					Load inertia					Custo	omer to Provid	le	kgm ²	
Combine	,				10%					Vibration level						1.6		mm/s	
Design					Ν					Noise level (1meter distance from moto				n motor	·)	54		dB(A)	
Service fa	actor				1.0				No.	No. of starts hot/cold/Equally spread				ead		2/3/4			
Insulation	n class				F					rting me		,				DOL			
Ambient	tempe	erature			-20 to +	40		°C		e of cou					Direct				
Temperat	ture ris	se (by i	resistanc	e)	80 [Class	6 B]		К	LRV	withstar	nd time	(hot/co	ld)			15/30		S	
Altitude a	above	sea lev	el		1000			meter	Dire	ection o	f rotatio	on			В	i-directional			
Hazardou	us area	classif	ication		NA				Sta	ndard r	otation				Cloc	kwise form D	Ξ		
Z	one cla	assifica	tion		NA				Pai	nt shade	e					RAL 5014			
G	Gas gro	up			NA				Acc	essorie	S								
T	emper	ature o	lass		NA					Acc	essory -	1				PTC 150°C			
Rotor typ	be			Alu	Aluminum Die cast					Accessory - 2						-			
Bearing t	type			A	nti-frictio	n ball				Acc	essory -	3				-			
DE / NDE	E bearir	ng		620	04-2Z / 6	5204-2Z			Ter	minal b	ox posit	ion				TOP			
Lubricatio	on met	thod		G	ireased fo	or life			Ma	ximum	cable siz	ze/cond	uit size	1R	x 3C x 1	10mm²/2 x M2	20 x 1.5		
Type of g	grease				NA				Aux	diliary 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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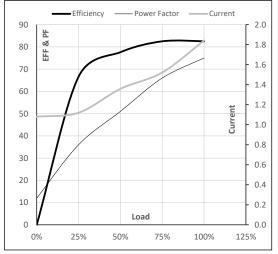


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			•	r	1	n	I	Т	IE	Amb	Duty	Elevation	Inertia	Weight
(V)	Conn [I	Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC 380	Y S	50	0.75	1.0	1.8	1446	0.50	4.92	IE3	40	S1	1000	0.0031	23

Motor Load D	ata						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	1.1	1.1	1.4	1.5	1.8	
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	

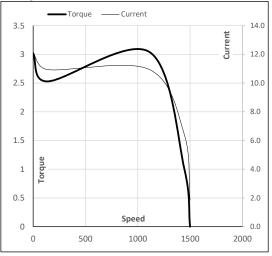
Performance vs Load Chart



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	136	1112	1446	1500
Current	А	12.2	10.9	6.4	1.8	1.1
Torque	pu	3.0	2.5	3.0	1	0

Starting Characteristics Chart



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

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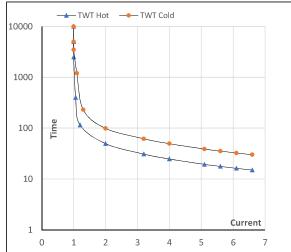
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Y	50	0.75	1.0	1.8	1446	0.50	4.92	IE3	40	S1	1000	0.0031	23

Motor Speed Torque Data

Load		FL	I_1	I_2	l ₃	I_4	ا 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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