PRODUCT INFORMATION PACKET

Model No: TCN0032A1111GAC010 Catalog No: TCN0032A1111GAC010 TerraMAX® Cast Iron Motor, 4 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 100L Frame, TEFC



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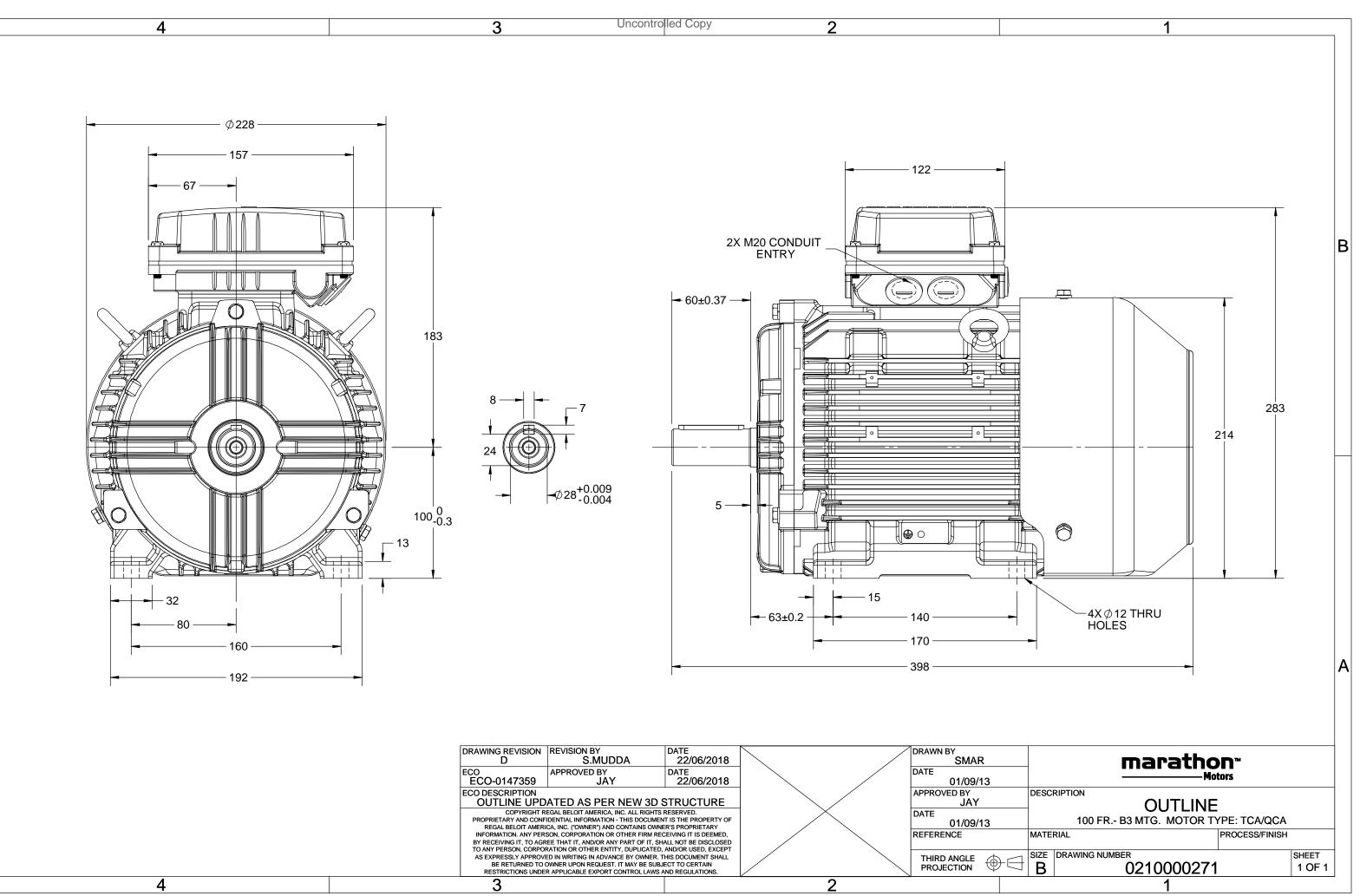
Nameplate Specifications

Output HP	4 Hp	Output KW	3.0 kW
Frequency	50 Hz	Voltage	400 V
Current	5.9 A	Speed	1458 rpm
Service Factor	1	Phase	3
Efficiency	87.7 %	Power Factor	0.84
Duty	S1	Insulation Class	F
Frame	100L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Rearing Size	0000		
Drive End Bearing Size	6206	Opp Drive End Bearing Size	6206
UL	No	CSA CSA	6206 No
-			

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	B3	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	398 mm	Frame Length	200 mm
Shaft Diameter	28 mm	Shaft Extension	60 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0210000271	Connection Drawing	8442000085

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U	Δ / Y	f	Р	Р	I	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]
400	Y	50	3	4.0	5.9	1458	19.54	IE3	-	87.7	87.7	86.2	0.84	0.78	0.65	7.7	2.6	3.1
Motor	type				TCN				Deg	gree of	protecti	on				IP 55		
Enclos	ure				TEFC				Мо	unting	type					IM B3		
Frame	Material				Cast Ir	on			Cod	oling m	ethod					IC 411		
Frame	size				100L				Мо	tor wei	ght - ap	orox.				44		kg
Duty					S1				Gro	oss weig	ght - app	rox.				47		kg
Voltage	e variatio	on *			± 10%	6			Mo	tor ine	rtia					0.0145		kgm ²
Freque	ncy varia	ation *			± 5%				Loa	id inert	ia				Custo	omer to Pro	vide	
Combi	ned varia	ation *			10%				Vib	ration l	evel					1.6		mm/s
Design					Ν				No	ise leve	l (1mete	er distar	nce fron	n motor)	55		dB(A)
Service	factor				1.0				No	of star	ts hot/c	old/Equ	ally spr	ead		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 r	resistanc	e)	80 [Clas	s B]		No. of starts hot/cold/Equally spread2/3/4Starting methodDOL			S							
Altitud	e above	sea lev	el		1000	1		meter	Dir	ection o	of rotatio	on			В	i-directiona	I	
Hazard	ous area	a classif	ication		Ex nA	۱			Sta	ndard r	otation				Cloc	ckwise form	DE	
	Zone cla	assifica	tion		Zone	2			Pai	nt shad	e					RAL 5014		
	Gas gro	up			IIC				Acc	essorie	S							
	Temper	ature o	lass		Т3					Ac	cessory ·	1				PTC 150°C		
Rotor t	ype			Alı	uminum [Die cast				Ac	cessory ·	2				-		
Bearing	g type			A	nti-frictio	n ball				Ac	cessory ·	3				-		
DE / NI	DE bearii	ng		620	06-2Z /	5206-2Z			Ter	minal b	ox posit	ion				TOP		
Lubrica	ation me	thod		G	ireased fo	or life			Ma	ximum	cable si	ze/cond	uit size	1R	R x 3C x 2	10mm²/2 x ľ	M20 x 1.5	
Type o	f grease				NA				Aux	kiliary to	erminal	box				NA		

 I_A/I_N - Locked Rotor Current / Rated Current

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

 T_A/T_N - Locked Rotor Torque / Rated Torque

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 chan	ge. There may be slight	variations between calculate	d values in this datash	eet and the motor na	imeplate 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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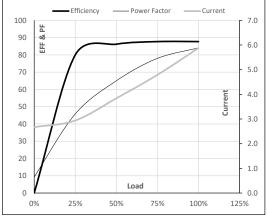
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Enclosure	U	Δ / Y	f	Р	Р	1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Y	50	3	4.0	5.9	1458	1.99	19.54	IE3	40	S1	1000	0.0145	44

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	2.7	2.9	3.8	4.8	5.9	
Torque	Nm	0.0	4.8	9.6	14.5	19.5	
Speed	r/min	1500	1490	1480	1470	1458	
Efficiency	%	0.0	80.0	86.2	87.7	87.7	
Power Factor	%	9.3	45.8	65.0	78.0	84.0	

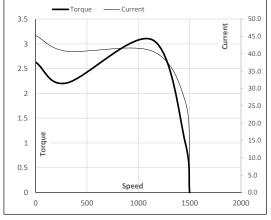
Performance vs Load Chart



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	300	1138	1458	1500	
Current	А	45.3	40.7	26.2	5.9	2.7	
Torque	pu	2.6	2.2	3.1	1	0	

Starting Characteristics Chart



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

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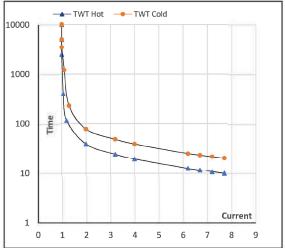
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Enclosure	U	Δ/Υ	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Y	50	3	4.0	5.9	1458	1.99	19.54	IE3	40	S1	1000	0.0145	44

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	39	26	20	15	13	10
TWT Cold	s	10000	77	50	39	27	25	20
Current	pu	1	2	3	4	5	5.5	7.7

Thermal Characteristics Chart



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

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