PRODUCT INFORMATION PACKET

marathon°

Model No: TCN0304A1131GAC010 Catalog No: TCN0304A1131GAC010 TerraMAX® Cast Iron Motor, 40 HP, 3 Ph, 50 Hz, 400 V, 750 RPM, 250M Frame, TEFC



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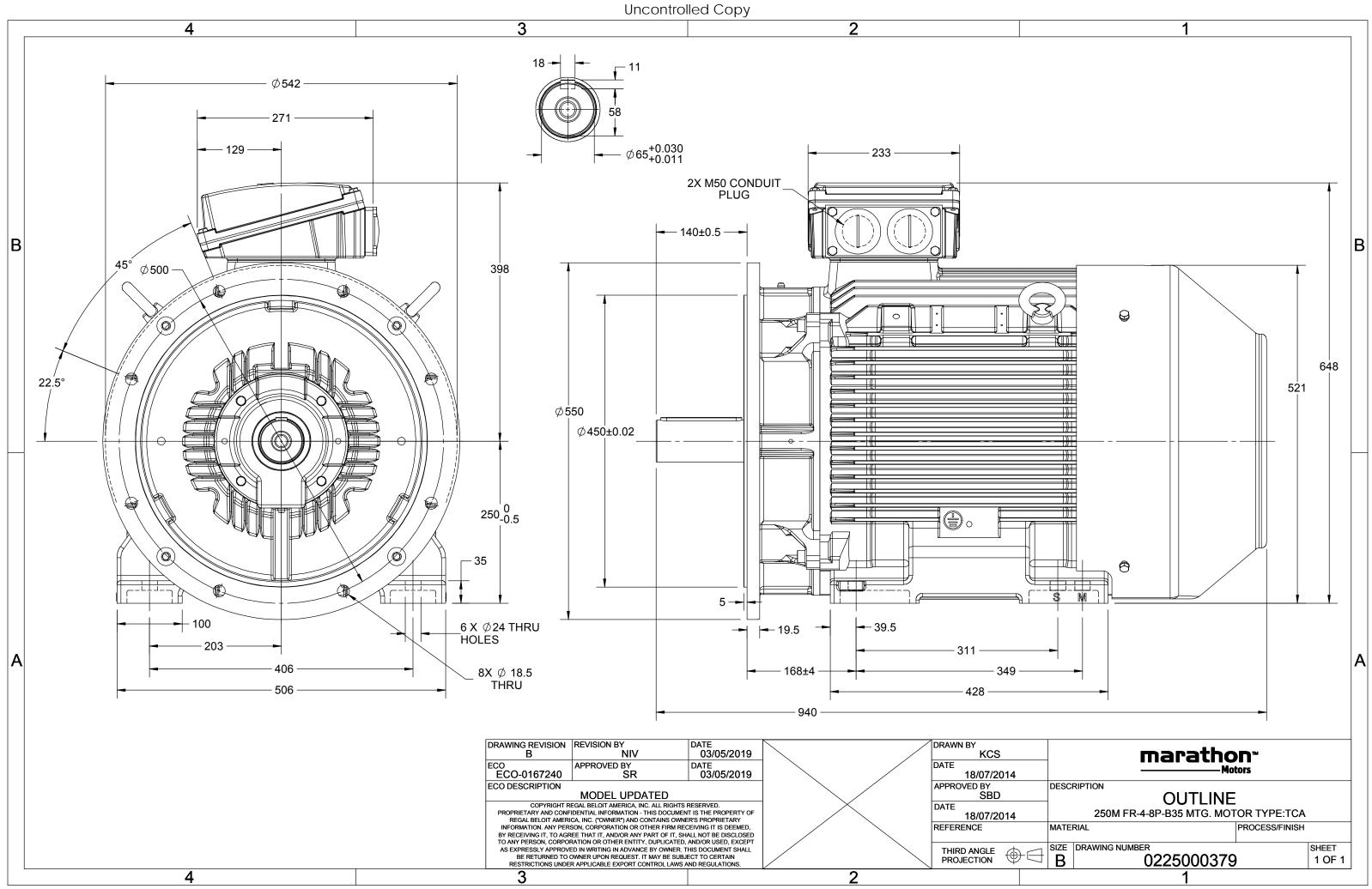
Nameplate Specifications

Phase	3	Output HP	40 Hp
Output KW	30.0 kW	Voltage	400 V
Speed	739 r/min	Service Factor	1
Frame	250M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	91.3 %
Ambient Temperature	40 °C	Frequency	50 Hz
Current	60.0 A	Power Factor	0.79
Duty	S1	Insulation Class	F
Drive End Bearing Size	6314	Opp Drive End Bearing Size	6314
UL	No	CSA	No
CE	Yes	IP Code	55
Number of Speeds	1	Efficiency Class	IE3

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	8	Rotation	Bi-Directional
Mounting	B35	Motor Orientation	Horizontal
Drive End Bearing	СЗ	Opp Drive End Bearing	СЗ
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	938 mm	Frame Length	460 mm
Shaft Diameter	65 mm	Shaft Extension	140 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0225000379	Connection Drawing	8442000085

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U	Δ / Y	f	Р	Р	1	n	Т	IE		% EFF	at loa	d	PF	at_lo	bad	I _A /I _N	T_A/T_N	T _κ /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	Δ	50	30	40	60.0	739	385.73	IE3	-	91.3	91.3	92.8	0.79	0.74	0.63	5.3	1.9	2.3
Matar	h un n				TCN				Dev		protectio					IP 55		
Motor Enclosi					TEFC					ounting		JII				IM B35		
	Materia				Cast In					oling me						IC 411		
Frame		I			250N					0						580		l a
Duty	SIZE				2.50N	1					ght - app ght - app					615		kg
	e variatio	- - *			± 109	4				tor ine		IUX.				2.1617		kg kgm²
0					± 5%	-									Curt	2.1617 omer to Provi	do	кgm
	ncy vari ned varia				± 5%					d inerti ration l					Cusio	2.2	ue	
		ation *			10% N											63		mm/s
Design					1.0						•	er distanc				2/3/4		dB(A)
Service					1.0 F							old/Equal	iy sprea	a		Z/S/4 DOL		
	ion class				-20 to +	40		0.0		rting m						Direct		
	nt tempe			,	-20 to 4			°C		be of co	1 0					15/30		
	rature ri	• •		ce)	1000 1000			K				(hot/cold)			i-directional		S
	e above							meter			of rotatio	on			-	kwise form D	F	
Hazard	ous area				Ex nA Zone						otation				CIOC	RAL 5014	E	
	Zone cl		tion		Zone	2				nt shad	-					RAL 5014		
	Gas gro	•			T3				Acc	cessorie						DTC 450%C		
.	Temper	rature o	class	A.I.							cessory -					PTC 150°C		
Rotor t	<i>/</i> ·				uminum o						cessory -					-		
Bearing				-	Anti-frictio						cessory -					-		
	DE beari	0		63	14 C3/6						ox posit					TOP		
	ition me				Regreas							e/condui	t size	18	1 x 3C x 9	95mm²/2 x M	50 x 1.5	
Type o	f grease			CHEVRO	JN SRI-2 (or Equival	ent		Aux	kiliary te	erminal l	xoc				NA		

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

 T_A/T_N - Locked Rotor Torque / Rated Torque

 $T_{\rm K}/T_{\rm N}$ - Breakdown 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 dat	a are subject to	o change. There may be slight varia	ations between calculated	values in this datashee	t and the motor namep	ate figures.
Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC

Standards	IEC:60034-30-1	-	-	GEMS 2019	-	IEC:60034-30-1



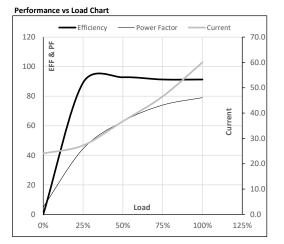
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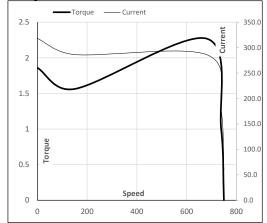
Model No. TCN0304A1131GAC010

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	400	Δ	50	30	40	60.0	739	39.33	385.73	IE3	40	S1	1000	2.1617	580

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	24.1	27.2	36.8	46.6	60.0	
Torque	Nm	0.0	95.3	191.3	288.1	385.7	
Speed	r/min	750	747	745	742	739	
Efficiency	%	0.0	89.1	92.8	91.3	91.3	
Power Factor	%	5.0	44.4	63.0	74.0	79.0	



Starting Characteristics Chart



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

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Motor Speed Torque Data

r/min

А

pu

LR

0

1.9

318.2

P-Up

150

286.4

1.6

BD

680

176.7

2.3

Rated

739

60.0

1

NL

750

24.1

0

Load Point

Speed

Current

Torque

REGAL



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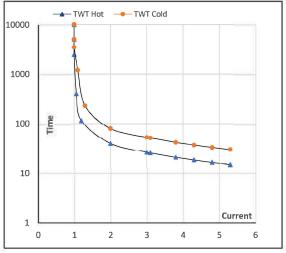
Model No. TCN0304A1131GAC010

Enclosure	U	Δ/Υ	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	Δ	50	30	40.0	60.0	739	39.33	385.73	IE3	40	S1	1000	2.1617	580

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	40	27	20	18	16	15
TWT Cold	s	10000	80	53	40	35	32	30
Current	pu	1	2	3	4	4.5	5	5.3

Thermal Characteristics Chart



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

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REGAL