PRODUCT INFORMATION PACKET

Model No: TCA0373A1131GAC010 Catalog No: TCA0373A1131GAC010 TerraMAX® Cast Iron Motor, 50 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 250M Frame, TEFC



Regal and Marathon are trademarks of Regal Rexnord Corporation or one of its affiliated companies. ©2022 Regal Rexnord Corporation, All Rights Reserved. MC017097E



marathon®

Product Information Packet: Model No: TCA0373A1131GAC010, Catalog No:TCA0373A1131GAC010 TerraMAX® Cast Iron Motor, 50 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 250M Frame, TEFC

marathon®

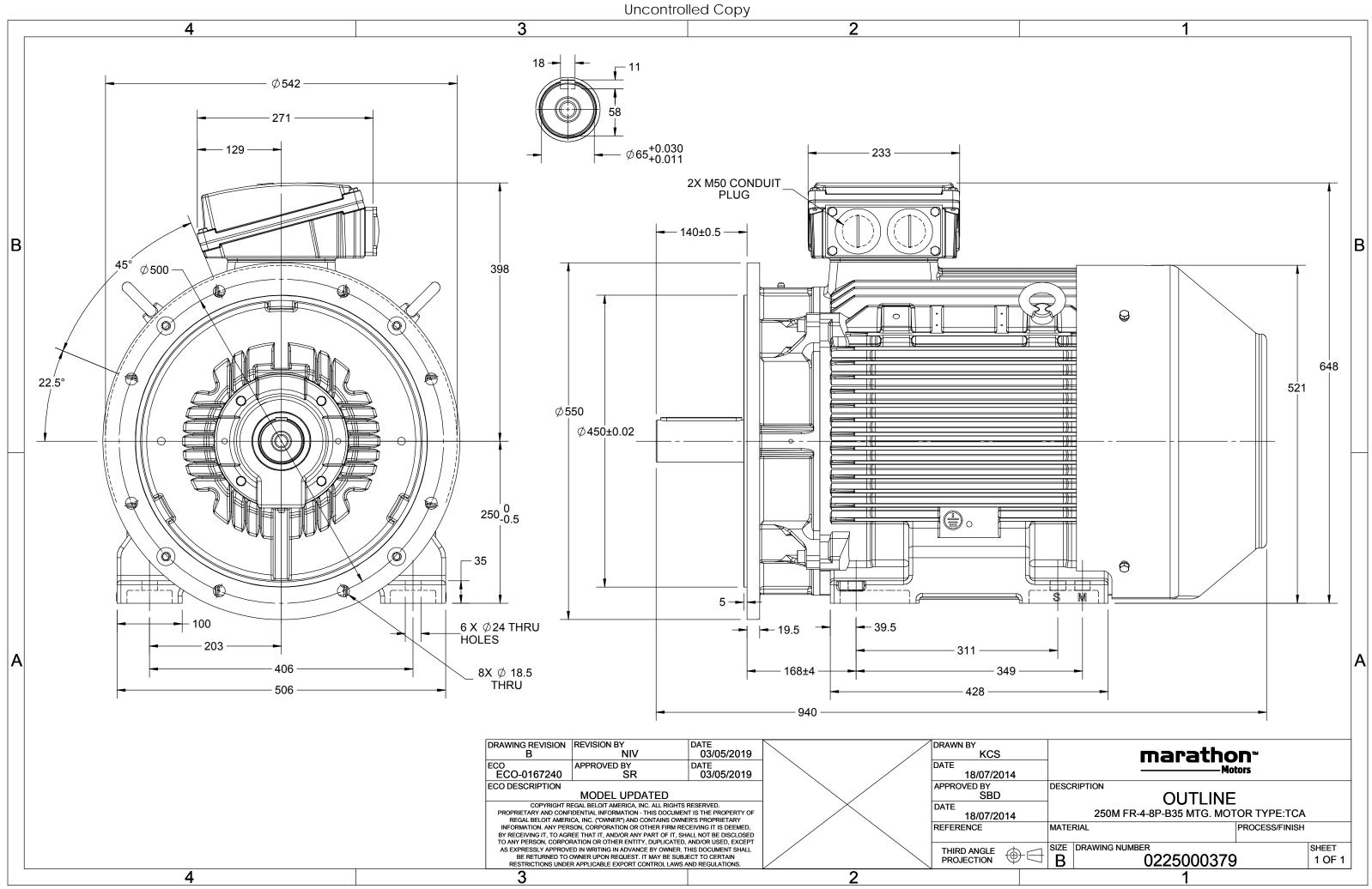
Nameplate Specifications

Output HP	50 Hp	Output KW	37.0 kW		
Frequency	50 Hz	Voltage	400 V		
Current	69.8 A	Speed	987 rpm		
Service Factor	1	Phase	3		
Efficiency	93.3 %	Power Factor	0.82		
Duty	S1	Insulation Class	F		
Frame	250M	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Ambient Temperature	40 °C		
Drive End Bearing Size	6314	Opp Drive End Bearing Size	6314		
UL	No	CSA	No		
CE	Yes	IP Code	55		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	Rotation	Bi-Directional
Mounting	B35	Motor Orientation	Horizontal
Drive End Bearing	C3	Opp Drive End Bearing	С3
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

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:12/01/2022



3 of 7





TerraMAX[®]

Model No. TCA0373A1131GAC010

$U = \Delta / Y = f$	Р	Р	I	n	Т	IE		% EFF at	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 Δ 50	37	50	69.8	987	360.77	IE3	-	93.3	93.3	92.8	0.82	0.76	0.64	6.8	2.4	2.9
Matartura			TCA				Dec	area of	arataati					IP 55		
Motor type Enclosure			TEFC					-	protecti	on				IP 55		
Frame Material			Cast Irc					ounting t						IC 411		
Frame size			250M					oling me	ght - ap					504		ka
			2301vi						iht - app					539		kg
Duty Voltage variation *			± 10%					oss weig tor iner		rox.				1.6082		kg
Frequency variation	*		± 5%					id inerti					Cust	omer to Prov	ido	kgm ²
Combined variation			± 3%					ration le	-				Cusio	2.2	lue	
	•		10%							ar diata.	aa fran	n motor	.)	65		mm/s dB(A)
Design Service factor			1.0						•)	2/3/4		UB(A)
			1.0 F						ts hot/c	ola/Equ	any spr	ead		DOL		
Insulation class			-20 to +	40		°C		rting m						Direct		
Ambient temperatu		>	80 [Class			-	. 71	e of cou	1 0	(h + /	1-1)			15/30		
Temperature rise (b Altitude above sea le	•	ce)	1000 1000	-		K			nd time of rotatio	· ·	ia)		р	i-directional		S
Hazardous area clas			1000 NA			meter		ndard r		on				ckwise form l	DE	
Zone classifi			NA					nuaru n nt shade					CIUC	RAL 5014		
Gas group	Lation		NA					essorie:	-					NAL JUI4		
Temperature	a class		NA				ALL		s cessory -	1				PTC 150°C		
Rotor type	e ciass	Δ1	uminum D	lia cast					cessory -					-		
			Anti-frictio						essory -					_		
Bearing type DE / NDE bearing		-	314 C3 / 63				Tor		ox posit					ТОР		
Lubrication method		03	Regreasa						cable si		uit cizo	1 R	x 3C y 0	95mm²/2 x N	150 x 1 5	
Type of grease		CHEVR	ON SRI-2 o		ent				erminal		uit size	IN		NA NA	.55 X 1.5	
i the of Brease			511 511 2 0	- Lyuivai	ent		AU	killary te	annindi	JUX				11/3		

 I_A/I_N - Locked Rotor Current / Rated Current

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

 $\rm T_A/T_N$ - 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.

 Efficiency
 Europe
 China
 India
 Aus/Nz
 Brazil
 Global IEC

 Standards
 GB 18613-2012 Grade 2
 IEC: 60034-30

REGAL

marathon[®]

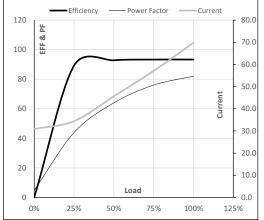


Model No. TCA0373A1131GAC010

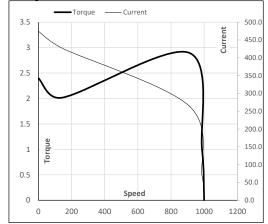
Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	37	50.0	69.8	987	36.79	360.77	IE3	40	S1	1000	1.6082	504

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	30.9	34.4	45.6	57.1	69.8	
Torque	Nm	0.0	89.3	179.2	269.6	360.8	
Speed	r/min	1000	997	994	991	987	
Efficiency	%	0.0	89.2	92.8	93.3	93.3	
Power Factor	%	4.8	43.9	64.0	76.0	82.0	

Performance vs Load Chart



Starting Characteristics Chart



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

Issued By Issued Date

Motor Speed Torque Data

r/min

А

pu

LR

0

2.4

474.7

P-Up

143

427.2

2.0

BD

908

265.4

2.9

Rated

987

69.8

1

NL

1000

30.9

0

Load Point

Speed

Current

Torque

REGAL





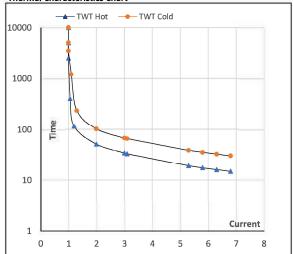
Model No. TCA0373A1131GAC010

Enclosure	U	Δ/Υ	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	400	Δ	50	37	50.0	69.8	987	36.79	360.77	IE3	40	S1	1000	1.6082	504

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	51	34	30	23	18	15
TWT Cold	s	10000	102	68	60	41	36	30
Current	pu	1	2	3	4	5	5.5	6.8

Thermal Characteristics Chart



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

Issued By Issued Date

REGAL