PRODUCT INFORMATION PACKET

Model No: QCA0114AF131GAA001 Catalog No: QCA0114AF131GAA001 TerraMAX® Cast Iron Motor, 15 HP, 3 Ph, 50 Hz, 380 V, 750 RPM, 180L 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







Product Information Packet: Model No: QCA0114AF131GAA001, Catalog No:QCA0114AF131GAA001 TerraMAX® Cast Iron Motor, 15 HP, 3 Ph, 50 Hz, 380 V, 750 RPM, 180L Frame, TEFC

marathon®

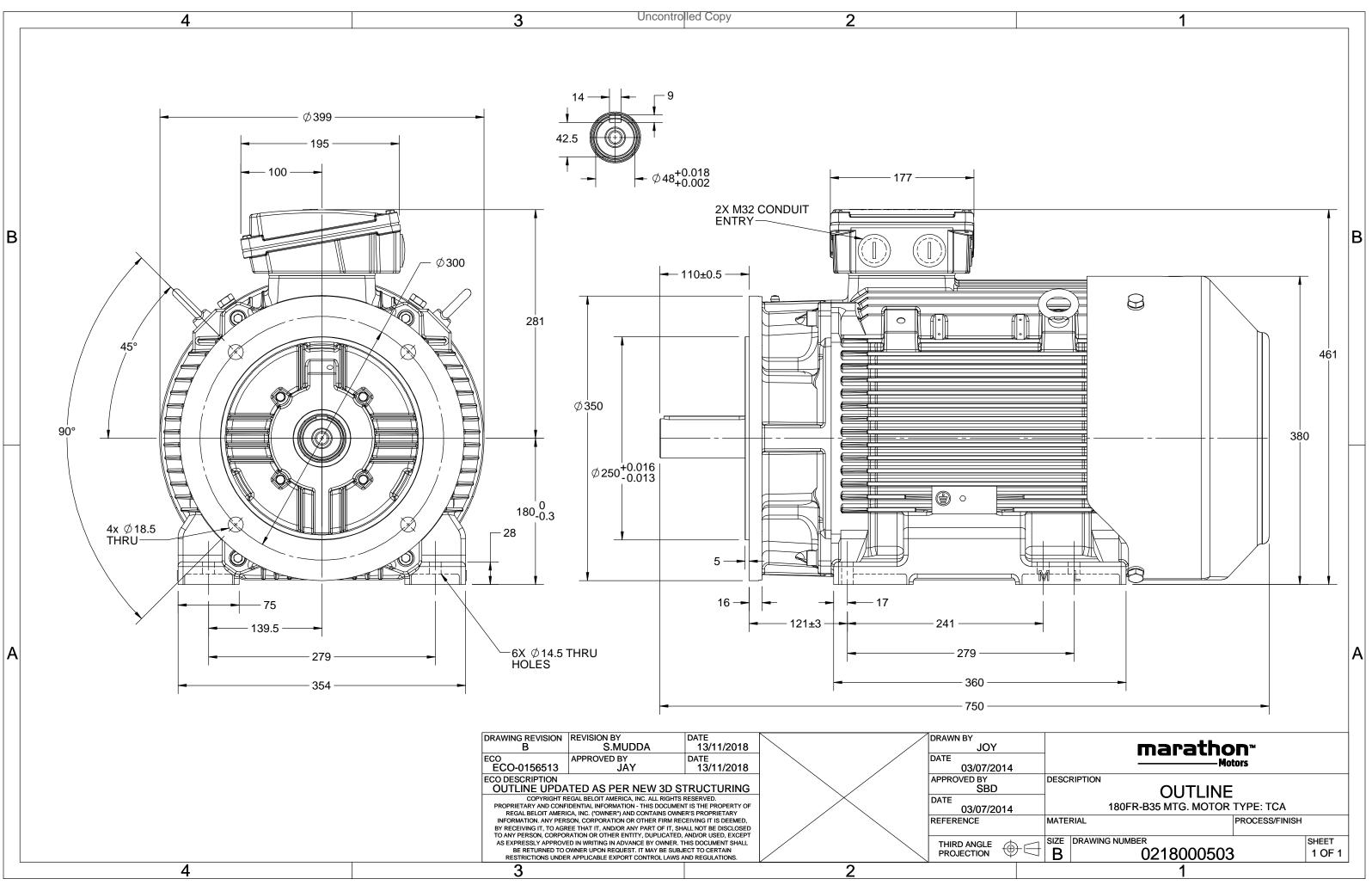
Nameplate Specifications

Output HP	15 Нр	Output KW	11.0 kW
Frequency	50 Hz	Voltage	380 V
Current	26.1 A	Speed	732 rpm
Service Factor	1	Phase	3
Efficiency	90.4 %	Power Factor	0.71
Duty	S1	Insulation Class	F
Frame	180L	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	180L No Protection	Enclosure Ambient Temperature	Totally Enclosed Fan Cooled 40 °C
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection Drive End Bearing Size	No Protection 6311	Ambient Temperature Opp Drive End Bearing Size	40 °C 6211

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line	
Poles	8	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	750 mm	Frame Length	366 mm	
Shaft Diameter	48 mm	Shaft Extension	110 mm	
Assembly/Box Mounting	Тор			
Outline Drawing	0218000503	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. QCA0114AF131GAA001

U	Δ / Y	f	Р	Р	I	n	т	IE	% EFF at load			PF	at lo	ad	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	Δ	50	11	15	26.0	732	146.18	IE4	-	90.4	90.4	89.1	0.71	0.64	0.5	7	2.0	3.3
Motor	or type QCA					Degree of protection					IP 55							

Frame Material Cast Iron Cooling method	IC 411
Frame size 180L Motor weight - approx.	238 kg
Duty S1 Gross weight - approx.	258 kg
Voltage variation * ± 10% Motor inertia	0.3337 kgm ²
Frequency variation * ± 5% Load inertia	Customer to Provide
Combined variation * 10% Vibration level	2.2 mm/s
Design N Noise level (1meter distance	e from motor) 60 dB(A)
Service factor 1.0 No. of starts hot/cold/Equal	ly spread 2/3/4
Insulation class F Starting method	DOL
Ambient temperature -20 to +40 °C Type of coupling	Direct
Temperature rise (by resistance) 80 [Class B] K LR withstand time (hot/cold) 15/30 s
Altitude above sea level 1000 meter Direction of rotation	Bi-directional
Hazardous area classification NA Standard rotation	Clockwise form DE
Zone classification NA Paint shade	RAL 5014
Gas group NA Accessories	
Temperature class NA Accessory - 1	PTC 150°C
Rotor type Aluminum Die cast Accessory - 2	-
Bearing type Anti-friction ball Accessory - 3	-
DE / NDE bearing 6311-2Z / 6211-2Z Terminal box position	ТОР
Lubrication method Greased for life Maximum cable size/condui	t size 1R x 3C x 35mm ² /2 X M32 x 1.5
Type of grease NA Auxiliary terminal 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

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®

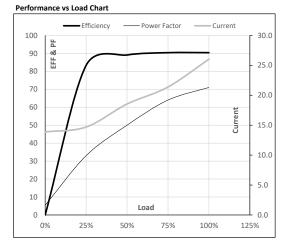


Model No. QCA0114AF131GAA001

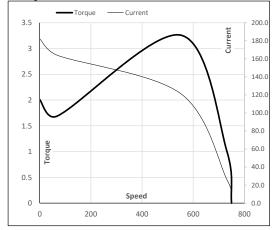
		Elevation	Duty	Amb	IE	Т	Т	n	1	Р	Р	f	Δ / Y	U	Enclosure
[kg]	[kg-m ²]	[m]		[°C]	Class	[Nm]	[kgm]	[RPM]	[A]	[hp]	[kW]	[Hz]	Conn	(∨)	
238	0.3337	1000	S1	40	IE4	146.18	14.91	732	26.0	15	11	50	Δ	380	TEFC
	0.3337	1000	51	40	IE4	146.18	14.91	/32	26.0	15	11	50	Δ	380	TEFC

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	13.9	14.7	18.5	21.4	26.0	
Torque	Nm	0.0	35.9	72.2	108.9	146.2	
Speed	r/min	750	746	741	737	732	
Efficiency	%	0.0	83.3	89.1	90.4	90.4	
Power Factor	%	5.4	33.0	50.0	64.0	71.0	
	70	511	55.0	50.0	0110	/ 110	



Starting Characteristics Chart



Motor Speed Torque Data P-Up BD Rated NL LR Load Point Speed r/min 0 68 551 732 750 Current А 182.3 164.0 121.5 26.0 13.9 Torque ри 2.0 1.7 3.3 1 0

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

Issued By Issued Date

REGAL





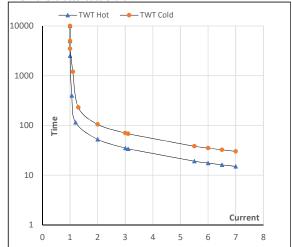
Model No. QCA0114AF131GAA001

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	11	15	26.0	732	14.91	146.18	IE4	40	S1	1000	0.3337	238

Motor Speed Torque Data

Load		FL	I_1	I_2	I ₃	I_4	I ₅	LR
TWT Hot	S	10000	53	35	30	25	19	15
TWT Cold	s	10000	105	70	60	45	38	30
Current	pu	1	2	3	4	5	5.5	7

Thermal Characteristics Chart



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

Issued By Issued Date

REGAL