PRODUCT INFORMATION PACKET

Model No: QCA1102A1131GAA001 Catalog No: QCA1102A1131GAA001 TerraMAX® Cast Iron Motor, 150 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 315S 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[®]

Motors



Product Information Packet: Model No: QCA1102A1131GAA001, Catalog No:QCA1102A1131GAA001 TerraMAX® Cast Iron Motor, 150 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 315S Frame, TEFC

marathon®

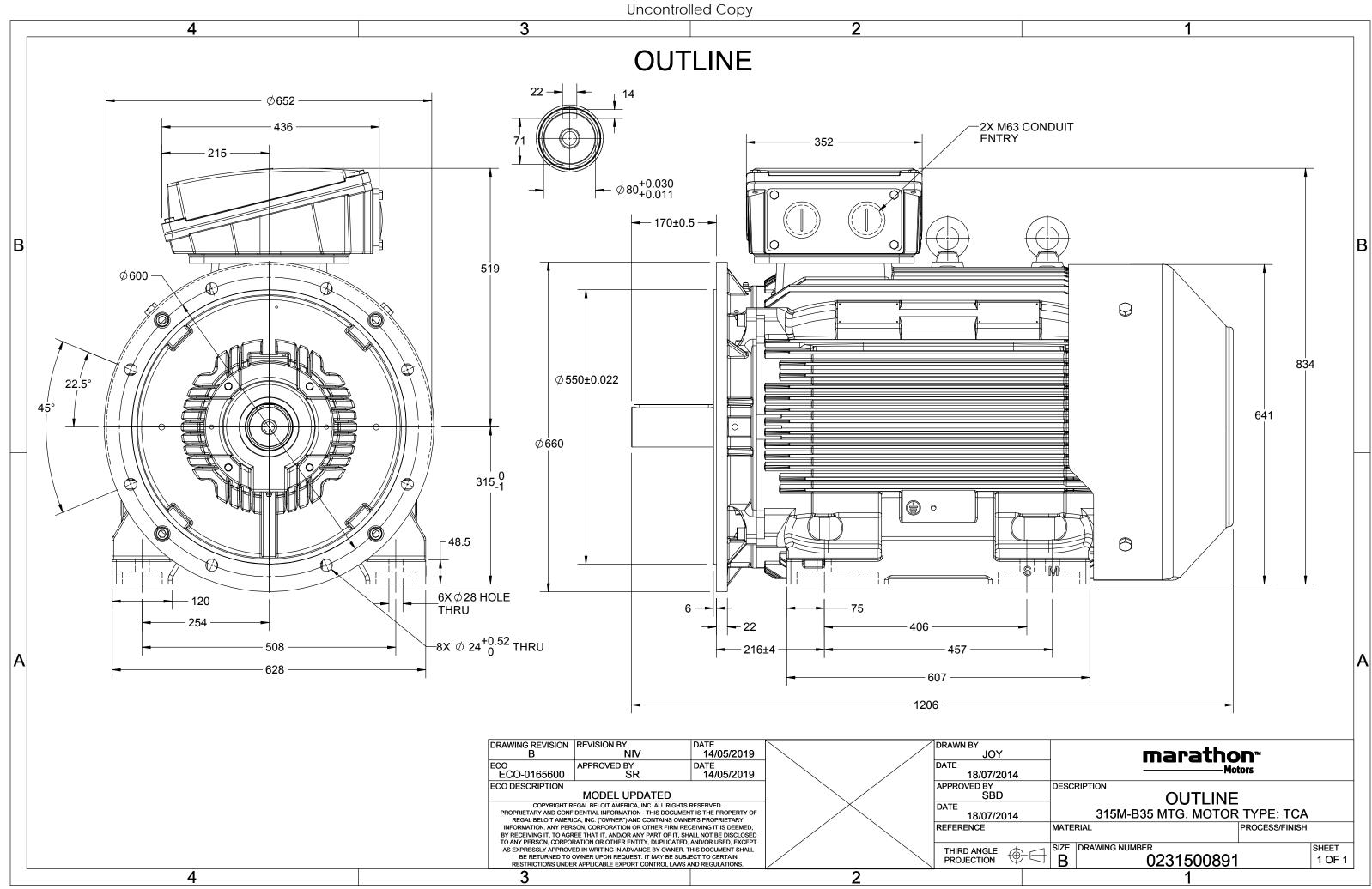
Nameplate Specifications

Output HP	150 Hp	Output KW	110.0 kW
Frequency	50 Hz	Voltage	400 V
Current	198.2 A	Speed	1491 rpm
Service Factor	1	Phase	3
Efficiency	96.3 %	Power Factor	0.84
Duty	S1	Insulation Class	F
Frame	315S	Enclosure	Totally Enclosed Fan Cooled
			-
Thermal Protection	No Protection	Ambient Temperature	40 °C
			40 °C 6319
Thermal Protection	No Protection	Ambient Temperature	
Thermal Protection Drive End Bearing Size	No Protection 6319	Ambient Temperature Opp Drive End Bearing Size	6319

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	B35	Motor Orientation	Horizontal
Drive End Bearing	СЗ	Opp Drive End Bearing	C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1206 mm	Frame Length	729 mm
Shaft Diameter	80 mm	Shaft Extension	170 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0231500891

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. QCA1102A1131GAA001

U	Δ / Y	f	Р	Р	I	n	Т	IE	9	% 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	Δ	50	110	150	196.3	1491	716.54	IE4	-	96.3	96.3	94.7	0.84	0.78	0.66	8.1	2.6	3.9
Motor	type				QCA				Deg	gree of	protecti	on				IP 55		
Enclosu	ire				TEFC				Мо	unting	type					IM B35		
Frame	Material								Coc	oling me	ethod					IC 411		
Frame	size		315S S1						Мо	tor wei	ght - ap	prox.				1086		kg
Duty			S1						Gro	oss weig	ht - app	rox.				1131		kg
Voltage	variatio	on *	± 10%						Мо	tor iner	tia		4.0682			kgm ²		
Freque	ncy variation * ± 5%					Loa	Load inertia						omer to Prov	vide				
Combir	ed varia	ation *		10%					Vib	Vibration level						2.8		mm/s
Design					Ν				Noi	Noise level (1meter distance from motor)						69		dB(A)
Service	factor				1.0				No.	No. of starts hot/cold/Equally spread						2/3/4		
Insulati	on class				F				Sta	Starting method						DOL		
Ambier	it tempe	erature			-20 to +	40		°C	Тур	Type of coupling						Direct		
Tempe	rature ri	se (by r	resistanc	e)	80 [Class	B]		К	LR v	withsta	nd time	(hot/co	ld)		15/30			s
Altitude	above	sea lev	el		1000			meter	Dire	Direction of rotation						Bi-directional		
Hazard	ous area	a classif	ication		NA				Sta	ndard r	otation				Clockwise form DE			
	Zone cla	assifica	tion		NA				Pair	nt shad	е					RAL 5014		
	Gas gro	up			NA				Acc	essorie	s							
	Temper	ature c	lass		NA					Accessory - 1						PTC 150°C		
Rotor t	ype			Al	uminum D	ie cast				Acc	cessory -	- 2				-		
Bearing	type			A	Anti-frictio	n ball				Acc	cessory -	- 3				-		
DE / NE)E bearir	ng		63	319 C3 / 6	319 C3			Ter	minal b	ox posit	ion				TOP		
Lubrica	tion met	thod			Regreasa	ble			Ma							R x 3C x 240mm²/2 x M63 x 1.5		
Type of	grease			CHEVRO	ON SRI-2 o	r Equival	ent		Aux	iliary te	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

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	ta are subject to chang	ge. There may be slight v	variations between calculated v	values in this datashe	eet and the motor nam	eplate figures.
Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	IEC 60034-30-1	-	-	AS/NZ 1359:5:2	- 004	IEC 60034-30-1

REGAL

marathon®

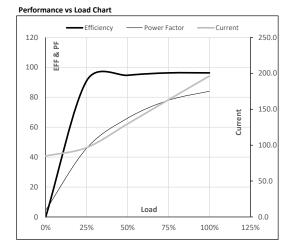


Model No. QCA1102A1131GAA001

Enclosure	U	Δ / Y	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	110	150	196.3	1491	73.07	716.54	IE4	40	S1	1000	4.0682	1086

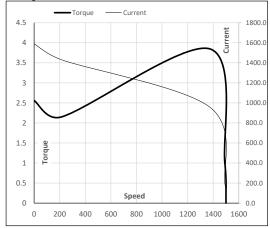
Motor Load Data

	NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
А	84.9	96.6	129.6	163.2	196.3	
Nm	0.0	178.3	357.2	536.5	716.5	
r/min	1500	1498	1495	1493	1491	
%	0.0	91.0	94.7	96.3	96.3	
%	4.5	45.9	66.0	78.0	84.0	
	Nm r/min %	A 84.9 Nm 0.0 r/min 1500 % 0.0	A 84.9 96.6 Nm 0.0 178.3 r/min 1500 1498 % 0.0 91.0	A 84.9 96.6 129.6 Nm 0.0 178.3 357.2 r/min 1500 1498 1495 % 0.0 91.0 94.7	A 84.9 96.6 129.6 163.2 Nm 0.0 178.3 357.2 536.5 r/min 1500 1498 1495 1493 % 0.0 91.0 94.7 96.3	A 84.9 96.6 129.6 163.2 196.3 Nm 0.0 178.3 357.2 536.5 716.5 r/min 1500 1498 1495 1493 1491 % 0.0 91.0 94.7 96.3 96.3



Motor Speed	l Torque Da	ta					
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	214	1372	1491	1500	
Current	А	1589.8	1430.8	959.7	196.3	84.9	
Torque	pu	2.6	2.2	3.9	1	0	





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

Issued By Issued Date

REGAL





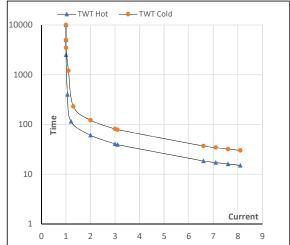
Model No. QCA1102A1131GAA001

Enclosure	U	Δ / Y	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	Δ	50	110	150	196.3	1491	73.07	716.54	IE4	40	S1	1000	4.0682	1086

Motor Speed Torque Data

Load		FL	I_1	I_2	I ₃	I_4	I ₅	LR
TWT Hot	s	10000	61	41	30	25	20	15
TWT Cold	s	10000	122	81	60	45	40	30
Current	pu	1	2	3	4	5	5.5	8.1

Thermal Characteristics Chart



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

Issued By Issued Date

REGAL