PRODUCT INFORMATION PACKET

Model No: QCA0223A1131GAA001 Catalog No: QCA0223A1131GAA001 TerraMAX® Cast Iron Motor, 30 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 200L Frame, TEFC



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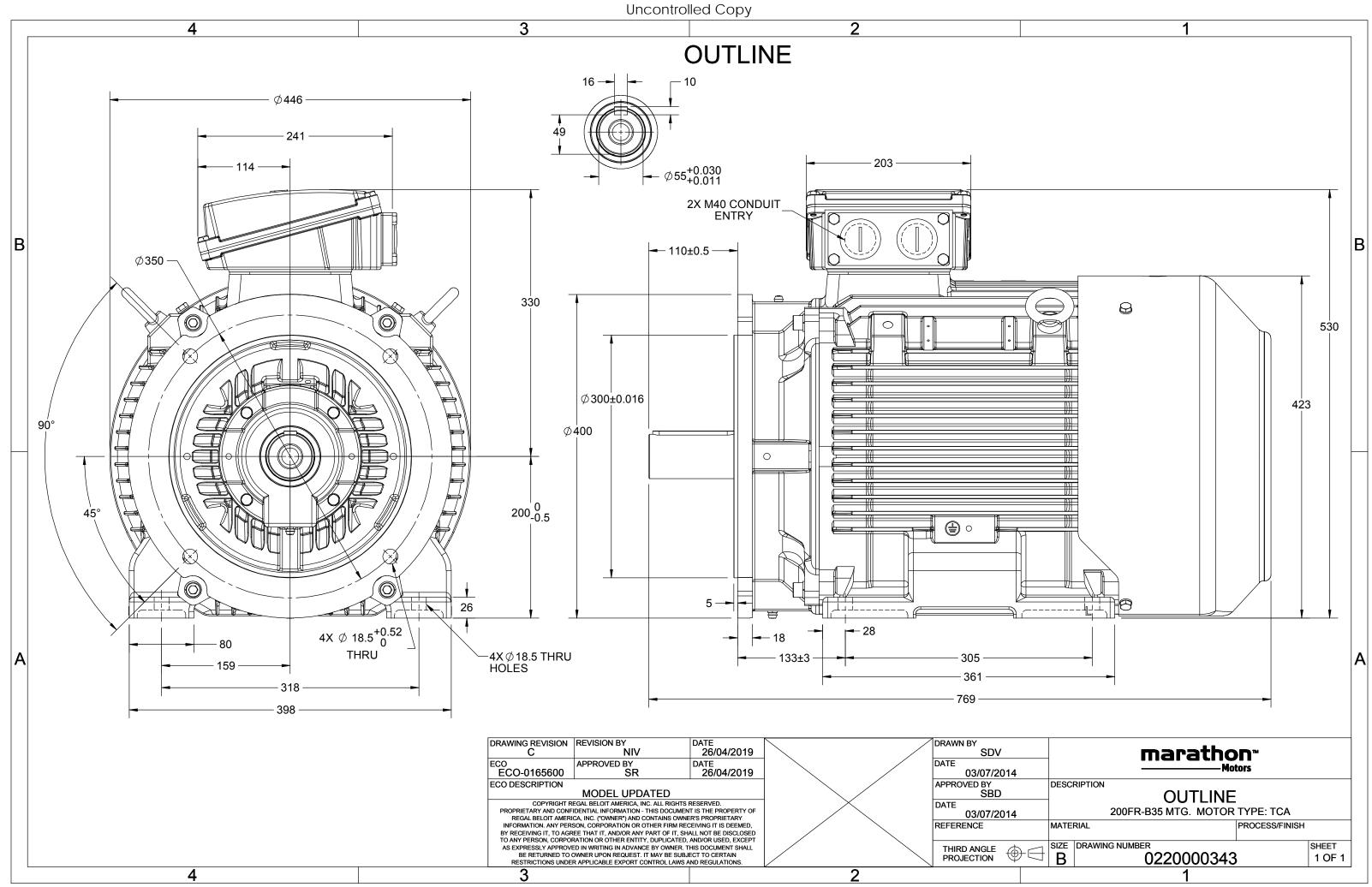
Nameplate Specifications

Output HP	30 Hp	Output KW	22.0 kW		
Frequency	50 Hz	Voltage	400 V		
Current	42.7 A	Speed	986 rpm		
Service Factor	1	Phase	3		
Efficiency	93.7 %	Power Factor	0.8		
Duty	S1	Insulation Class	F		
Frame	200L	Enclosure	Totally Enclosed Fan Cooled		
Frame Thermal Protection	200L 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 6312	Ambient Temperature Opp Drive End Bearing Size	40 °C 6212		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	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	769 mm	Frame Length	370 mm
Shaft Diameter	55 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0220000343	Connection Drawing	8442000085

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3 of 7





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ТОР

1R x 3C x 50mm²/2 x M40 x 1.5

NA

Model No. QCA0223A1131GAA001

U	Δ / Y	f	Р	Р	I	n	т	IE	9	6 EFF at	t load	1	PF	at lo	ad	I _A /I _N	T _A /T _N	T _K /T _N
(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class		FL		1/2FL	FL		1/2FL	[pu]	[pu]	[pu]
400	Δ	50	22	30	42.4	986	216.70	IE4	-	93.7	93.7	92.8	0.8	0.74	0.63	6.5	2.2	2.7
Motor	type				QCA			Degree of protection							IP 55			
Enclos	ure				TEFC				Mounting type							IM B35		
Frame	Materia	I			Cast Ire	on			Cooling method						IC 411			
Frame	size				200L				Mo	tor weig	ght - ap	prox.				330		kg
Duty					S1				Gross weight - approx.						360		kg	
Voltag	e variatio	on *			± 10%	6			Motor inertia						0.7703		kgm ²	
Freque	ncy vari	ation *			± 5%				Load inertia				Custo	omer to Pro	ovide			
Combi	ned varia	ation *			10%				Vibr	ration le	evel					2.2		mm/s
Design					Ν				Noi	se level	(1mete	er distar	nce fron	n motor))	62		dB(A)
Service	factor				1.0				No.	of start	ts hot/c	old/Equ	ally spr	ead		2/3/4		
Insulat	ion class	5			F				Starting method					DOL				
Ambie	nt tempe	erature			-20 to +	40		°C	Type of coupling					Direct				
Tempe	rature ri	ise (by r	resistanc	ce)	80 [Clas	s B]		К	LR v	vithstar	nd time	(hot/co	ld)			15/30		s
Altitud	e above	sea lev	el		1000			meter	Dire	ection o	f rotatio	on			В	i-directiona	al	
Hazard	lous area	a classif	ication		NA				Standard rotation				Cloc	kwise form	n DE			
	Zone cl	assifica	tion		NA				Pair	nt shade	е					RAL 5014		
	Gas gro	oup			NA				Acc	essories	s							
	Temper	rature o	lass		NA					Acc	essory	- 1				PTC 150°C		

I_A/I_N - Locked Rotor Current / Rated Current

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

Accessory - 2

Accessory - 3

Maximum cable size/conduit size

Terminal box position

Auxiliary terminal box

 $T_{\text{A}}/T_{\text{N}}$ - Locked Rotor Torque / Rated Torque

NOTE

Rotor type

Bearing type

DE / NDE bearing

Type of grease

Lubrication method

All performance values at rated voltage and frequency.

All performance parameters are subjected to standard tolerance as per IEC 60034-1

Aluminum Die cast

Anti-friction ball

6312 C3 / 6212 C3

Regreasable

CHEVRON SRI-2 or Equivalent

* 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

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	0 4/	. T	Р	Р	1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
(V	V) Con	n [Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC 40	Δ 00	50	22	30	42.4	986	22.10	216.70	IE4	40	S1	1000	0.7703	330

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	18.9	21.2	28.1	35.1	42.4	
Torque	Nm	0.0	53.6	107.6	161.9	216.7	
Speed	r/min	1000	997	993	990	986	
Efficiency	%	0.0	88.9	92.8	93.7	93.7	
Power Factor	%	4.9	43.0	63.0	74.0	80.0	

P-Up

143

247.8

1.9

LR

0

2.2

275.4

BD

907

152.5

2.7

Rated

986

42.4

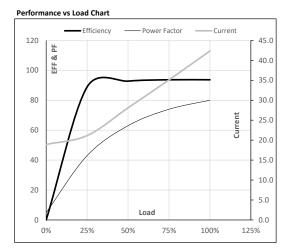
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NL

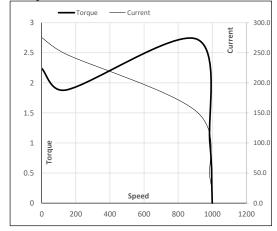
1000

18.9

0



Starting Characteristics Chart



Motor Speed Torque Data

r/min

А

pu

Load Point

Speed

Current

Torque

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

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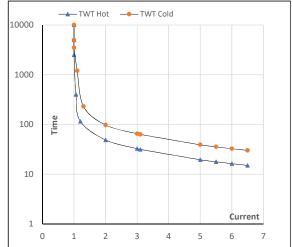
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	22	30	42.4	986	22.10	216.70	IE4	40	S1	1000	0.7703	330

Motor Speed Torque Data

Load		FL	I_1	I ₂	I ₃	I_4	I ₅	LR
TWT Hot	s	10000	49	33	25	20	18	15
TWT Cold	s	10000	98	65	50	39	36	30
Current	pu	1	2	3	4	5	5.5	6.5

Thermal Characteristics Chart



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

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