PRODUCT INFORMATION PACKET

Model No: QCA18P3A1131GAA001 Catalog No: QCA18P3A1131GAA001 TerraMAX® Cast Iron Motor, 25 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 200L Frame, TEFC



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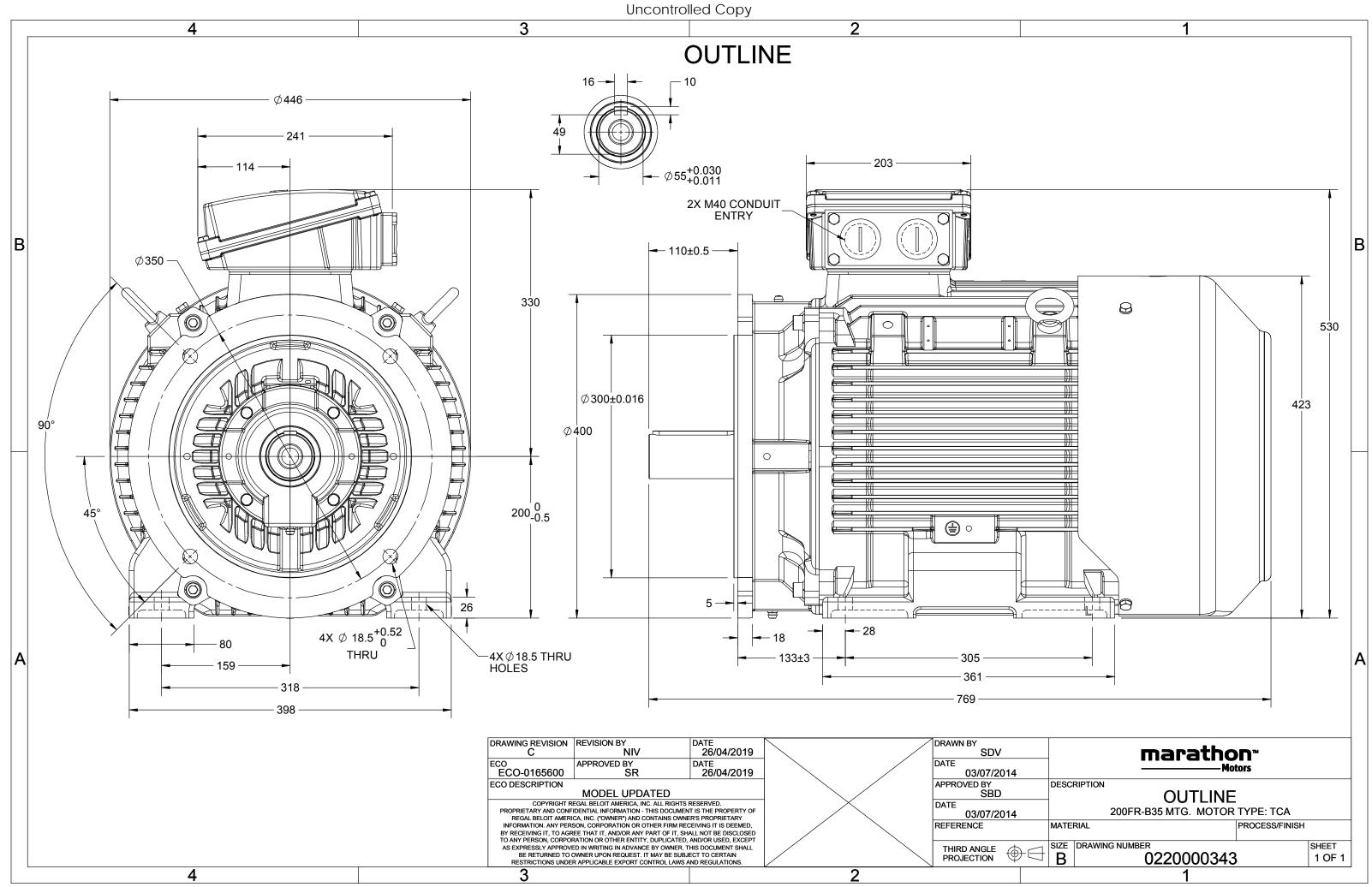
Nameplate Specifications

Output HP	25 Hp	Output KW	18.5 kW		
Frequency	50 Hz	Voltage	400 V		
Current	36.4 A	Speed	986 rpm		
Service Factor	1	Phase	3		
Efficiency	93.4 %	Power Factor	0.79		
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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U	Δ / Y	f	Р	Р	I	n	Т	IE		% 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	18.5	25	36.2	986	180.57	IE4	-	93.4	93.4	92.3	0.79	0.73	0.61	6.5	2.3	2.8
Motor	type				QCA				Deg	gree of	protecti	on				IP 55		
Enclosu	ire				TEFC				Mo	unting	type					IM B35		
Frame	Material	l			Cast Iro	on			Cod	oling me	ethod					IC 411		
Frame	size				200L				Mo	tor wei	ght - ap	prox.				304		kg
Duty					S1				Gro	oss weig	ht - app	rox.				334		kg
Voltage	e variatio	on *		± 10%					Mo	Motor inertia					0.6664			kgm ²
Freque	equency variation * ± 5%				Loa	Load inertia					Custo	Customer to Provide						
Combir	ned varia	ation *		10%				Vib	Vibration level						2.2		mm/s	
Design					Ν				No	Noise level (1meter distance from motor)) 62			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	nt tempe	erature			-20 to +	40		°C	Тур	Type of coupling					Direct			
Temper	rature ri	se (by r	esistanc	ce)	80 [Class	5 B]		К	LR	LR withstand time (hot/cold)					15/30			s
Altitude	e above	sea lev	el		1000			meter	Dir	ection o	of rotatio	on			В	i-directiona	I	
Hazard	ous area	a classif	ication		NA				Sta	ndard r	otation				Cloc	kwise form	DE	
	Zone classification NA				Pai	Paint shade						RAL 5014						
	Gas gro	up			NA				Acc	essorie	s							
	Temper	ature c	lass	ass NA				Acc	cessory -	- 1				PTC 150°C				
Rotor t	ype			Al	uminum D)ie cast				Acc	cessory -	- 2				-		
Bearing	g type			A	nti-frictio	n ball				Acc	cessory -	- 3				-		
DE / NE	DE bearir	ng		63	812 C3 / 6	212 C3			Ter	minal b	ox posit	ion				TOP		
Lubrica	tion met	thod			Regrease	able			Ma	ximum	cable siz	ze/cond	uit size	1R	x 3C x 5	50mm²/2 x I	VI40 x 1.5	
Turno of	grease			CHEVRO	DN SRI-2 d	r Equival	ent		Aux	kiliary 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 da	ta are subject to chan	ge. There may be slight v	ariations between calculated	values in this datashe	eet and the motor name	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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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	18.5	25	36.2	986	18.41	180.57	IE4	40	S1	1000	0.6664	304

Motor Load Data

Motor Speed Torque Data

r/min

А

pu

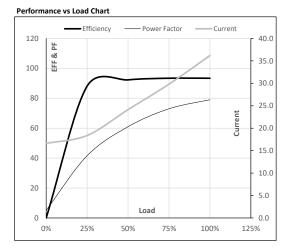
Load Point

Speed

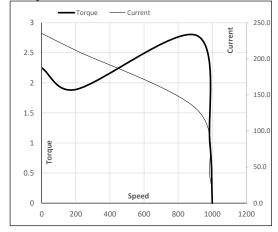
Current

Torque

	NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Α	16.6	18.4	24.1	29.8	36.2	
Nm	0.0	44.7	89.6	134.9	180.6	
r/min	1000	997	993	990	986	
%	0.0	88.1	92.3	93.4	93.4	
%	5.1	41.6	61.0	73.0	79.0	
	Nm r/min %	A 16.6 Nm 0.0 r/min 1000 % 0.0	A 16.6 18.4 Nm 0.0 44.7 r/min 1000 997 % 0.0 88.1	A 16.6 18.4 24.1 Nm 0.0 44.7 89.6 r/min 1000 997 993 % 0.0 88.1 92.3	A 16.6 18.4 24.1 29.8 Nm 0.0 44.7 89.6 134.9 r/min 1000 997 993 990 % 0.0 88.1 92.3 93.4	A 16.6 18.4 24.1 29.8 36.2 Nm 0.0 44.7 89.6 134.9 180.6 r/min 1000 997 993 990 986 % 0.0 88.1 92.3 93.4 93.4



Starting Characteristics Chart



P-Up

200

211.7

1.9

LR

0

235.2

2.3

BD

907

130.5

2.8

Rated

986

36.2

1

NL

1000

16.6

0

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

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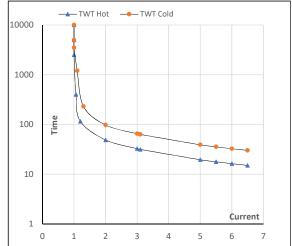
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Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	18.5	25	36.2	986	18.41	180.57	IE4	40	S1	1000	0.6664	304

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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