PRODUCT INFORMATION PACKET

Model No: QCA18P3A1133GAA001 Catalog No: QCA18P3A1133GAA001 TerraMAX® Cast Iron Motor, 25 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 200L Frame, TEFC



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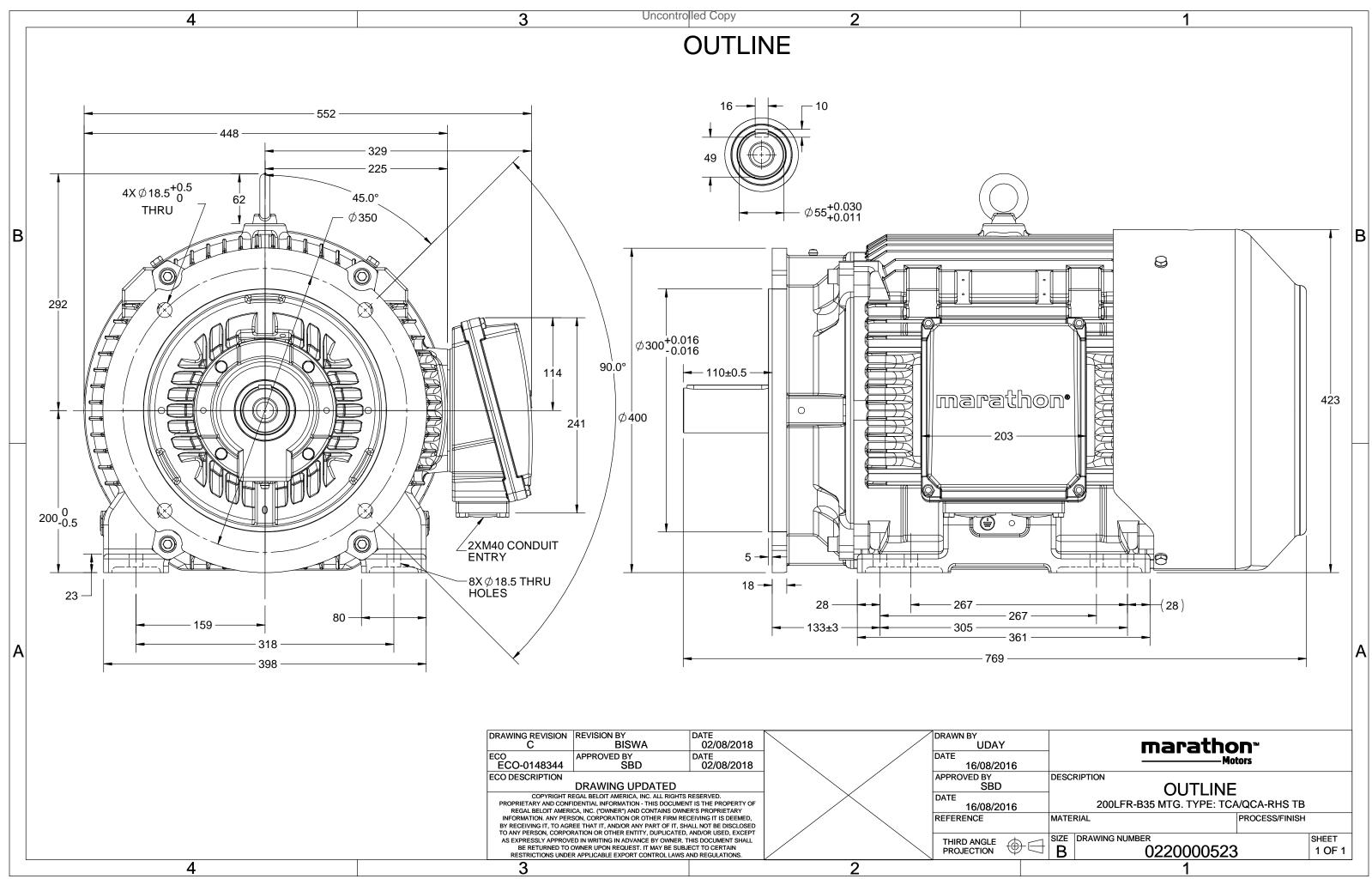
Nameplate Specifications

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	R Side		
Connection Drawing	8442000085	Outline Drawing	0220000523

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Model No. QCA18P3A1133GAA001

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 _K /T _N	
(∨)	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	lotor type QCA Deg					ree of	protecti	on				IP 55							
Enclos	ure				TEFC				Mounting type							IM B35			
Frame	Materia	I			Cast Iro	on			Cooling method						IC 411				
Frame	size				200L				Motor weight - approx.						304		kg		
Duty					S1				Gross weight - approx.						334		kg		
Voltag	e variatio	on *			± 10%	b			Motor inertia					0.6664		kgm ²			
Freque	ncy vari	ation *			± 5%				Load inertia				Custo	omer to Prov	ide				
Combi	ned varia	ation *			10%				Vibr	ration le	evel					2.2		mm/s	
Design					Ν				Nois	se level	(1mete	er distar	nce fron	n motor)	62		dB(A)	
Service	factor				1.0				No.	of star	ts hot/c	old/Equ	ally spr	ead		2/3/4			
Insulat	ion class	5			F				Star	ting me	ethod					DOL			
Ambie	nt tempe	erature			-20 to +	40		°C Type of coupling					Direct						
Tempe	rature ri	ise (by i	resistand	ce)	80 [Clas	s B]		K LR withstand time (hot/cold)						15/30		s			
Altitud	e above	sea lev	el		1000			meter Direction of rotation					В	i-directional					
Hazard	ous area	a classif	fication		NA				Star	ndard r	otation				Cloc	Clockwise form DE			
	Zone cl	assifica	tion		NA				Pair	nt shad	e					RAL 5014			
	Gas gro	oup			NA				Accessories										

Rotor type	Aluminum Die cast
Bearing type	Anti-friction ball
DE / NDE bearing	6312 C3 / 6212 C3
Lubrication method	Regreasable
Type of grease	CHEVRON SRI-2 or Equivalent

Accessory - 2	-
Accessory - 3	-
Terminal box position	RHS
Maximum cable size/conduit size	1R x 3C x 50mm²/2 x M40 x 1.5
Auxiliary terminal box	NA

PTC 150°C

 $I_{\rm A}/I_{\rm N}$ - Locked Rotor Current / Rated Current $T_{\rm A}/T_{\rm N}$ - Locked Rotor Torque / Rated Torque

Temperature class

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

Accessory - 1

NOTE

All performance values at rated voltage and frequency.

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

NA

* Voltage, Frequency and combined variation are as per IEC60034-1

Technical dat	ta are subject to chang	e. There may be slight v	variations between calculated	values in this datash	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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Model No. QCA18P3A1133GAA001

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

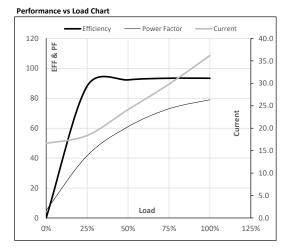
Load Point

Speed

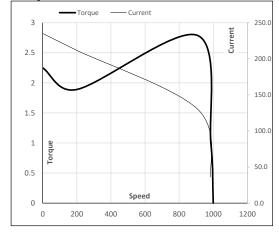
Current

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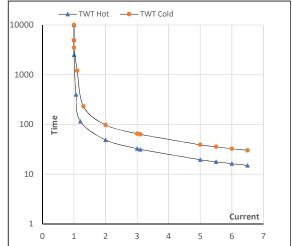
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Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	18.5	25	36.2	986	18.41	180.57	IE4	40	S1	1000	0.6664	304

Motor Speed Torque Data

Load		FL	I_1	I ₂	l 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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