PRODUCT INFORMATION PACKET

Model No: QCA0033A1133GAA001 Catalog No: QCA0033A1133GAA001 TerraMAX® Cast Iron Motor, 4 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 132S Frame, TEFC



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Motors



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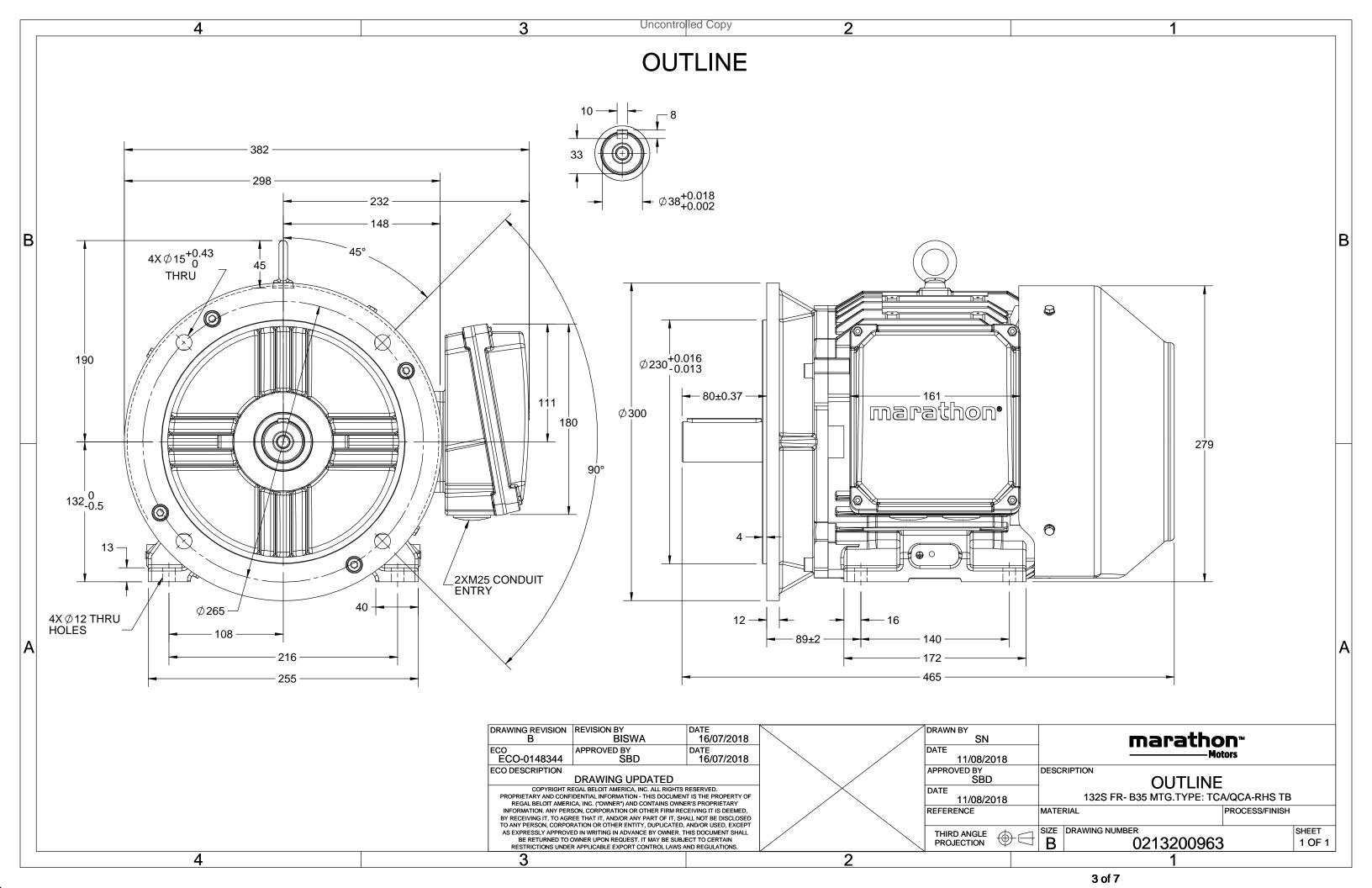
Nameplate Specifications

Output HP	4 Hp	Output KW	3.0 kW
Frequency	50 Hz	Voltage	400 V
Current	6.5 A	Speed	976 rpm
Service Factor	1	Phase	3
Efficiency	88.6 %	Power Factor	0.75
Duty	S1	Insulation Class	F
Frame	132S	Enclosure	Totally Enclosed Fan Cooled
Traine	1520	Enclosure	Totally Enclosed Fall Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection Drive End Bearing Size	No Protection 6308	Ambient Temperature Opp Drive End Bearing Size	40 °C 6208

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	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	465 mm	Frame Length	202 mm
Shaft Diameter	38 mm	Shaft Extension	80 mm
Assembly/Box Mounting	R Side		
Outline Drawing	0213200963	Connection Drawing	8442000085

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Model No. QCA0033A1133GAA001

(V) Cor 400 Y					I	n	Т	IE	7	% EFF a	t load	J	PF	at lo	Jau	I _A /I _N	T_A/T_N	Τ _κ /Τ _Ν
400 Y	าท ([Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
		50	3	4.0	6.5	976	29.22	IE4	-	88.6	88.6	87.3	0.75	0.67	0.53	6.1	2.1	2.7
Motor type					QCA				Deg	ree of	protecti	on				IP 55		
Inclosure					TEFC					unting		on				IM B35		
rame Mate	erial				Cast Ir	on				ling me						IC 411		
rame size	21101				1325					0	ght - api	prox.				80		k
Duty					S1						0 11					83		k
/oltage vari	iation	*			± 10%	6	Gross weight - approx. Motor inertia Load inertia Vibration level								0.0536		kgm	
requency v	/ariati	ion *			± 5%				Load inertia						Cust	omer to Provide	9	
Combined v	ariati	on *			10%				Vib	ration l	evel					1.6		mm/
Design					Ν				Noi	se level	l (1mete	er distar	nce from	n motor)	59		dB(A
Service facto	or				1.0				No.	of star	ts hot/c	old/Equ	ally spre	ead		2/3/4		
nsulation cl	lass				F				Star	ting m	ethod					DOL		
Ambient ter	mpera	ature			-20 to +	-40		°C	Тур	e of co	upling				Direct			
emperatur	re rise	e (by r	esistand	e)	80 [Clas	s B]		К	LR v	vithsta	nd time	(hot/co	ld)		15/30			
Altitude abc	ove se	ea leve	el		1000	1		meter	Dire	ection c	of rotatio	on			В	Bi-directional		
lazardous a	area c	lassifi	cation		NA				Star	ndard r	otation				Clo	ckwise form DE		
Zone	e clas	sificat	ion		NA				Pair	nt shad	e					RAL 5014		
Gas	group	c			NA				Acc	essorie	S							
Tem	perat	ture c	ass		NA					Acc	cessory ·	- 1				PTC 150°C		
Rotor type				Alı	uminum [Die cast				Acc	cessory -	- 2				-		
Bearing type	е				nti-frictio					Acc	cessory ·	- 3				-		
DE / NDE be	earing	5			08-2Z / 6				Ter	minal b	ox posit	ion				RHS		
ubrication	meth	od		G	ireased fo	or life					cable siz		uit size	1R	x 3C x 3	16mm²/2 x M25	x 1.5	
ype of grea	ase				NA				Aux	iliary te	erminal l	box				NA		

 I_A/I_N - Locked Rotor Current / Rated Current

 T_A/T_N - Locked Rotor Torque / Rated Torque

T_K/T_N - Breakdown 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	a are subject to change	e. There may be slight v	variations 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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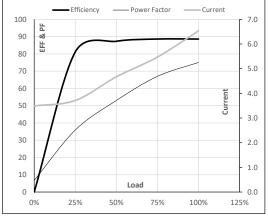
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Enclosure	U	Δ / Y	f	Р	Р	1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Y	50	3	4.0	6.5	976	2.98	29.22	IE4	40	S1	1000	0.0536	80

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	3.5	3.7	4.7	5.5	6.5	
Torque	Nm	0.0	7.2	14.4	21.8	29.2	
Speed	r/min	1000	994	989	983	976	
Efficiency	%	0.0	81.1	87.3	88.6	88.6	
Power Factor	%	6.7	35.9	53.0	67.0	75.0	

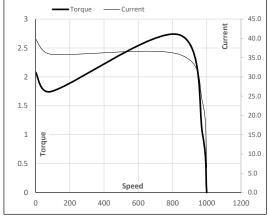
Performance vs Load Chart



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	91	837	976	1000	
Current	А	39.9	35.9	23.3	6.5	3.5	
Torque	pu	2.1	1.7	2.7	1	0	

Starting Characteristics Chart



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

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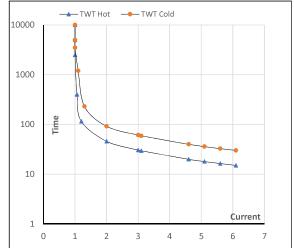
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Y	50	3.0	4.0	6.5	976	2.98	29.22	IE4	40	S1	1000	0.0536	80

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	l ₅	LR
TWT Hot	s	10000	46	31	27	18	17	15
TWT Cold	s	10000	92	61	50	37	34	30
Current	pu	1	2	3	4	5	5.5	6.1

Thermal Characteristics Chart



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

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