PRODUCT INFORMATION PACKET

Model No: QCAP753AF133GAA001 Catalog No: QCAP753AF133GAA001 TerraMAX® Cast Iron Motor, 1 HP, 3 Ph, 50 Hz, 380 V, 1000 RPM, 90S Frame, TEFC



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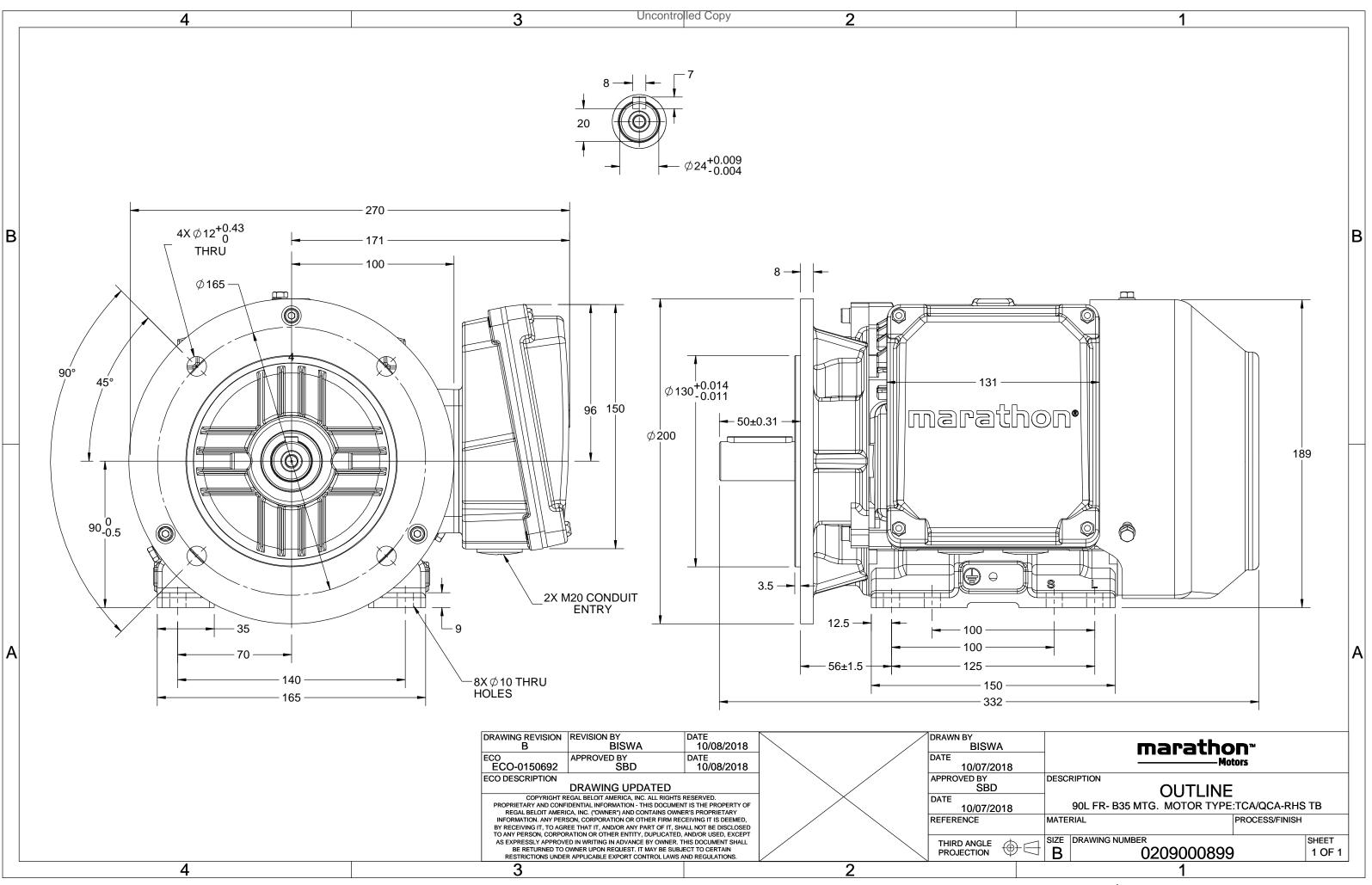
Nameplate Specifications

Output HP	1 Hp	Output KW	0.75 kW
Frequency	50 Hz	Voltage	380 V
Current	2.0 A	Speed	949 rpm
Service Factor	tor 1 F		3
Efficiency	82.7 %	Power Factor	0.69
Duty	S1	Insulation Class	F
Frame	90S	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6205	Opp Drive End Bearing Size	6205
UL	Νο	CSA	No
CE	YES	IP Code	55

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	332 mm	Frame Length	153 mm
Shaft Diameter	24 mm	Shaft Extension	50 mm
Assembly/Box Mounting	R Side		
Outline Drawing	0209000899	Connection Drawing	8442000085

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U	Δ / Y	f	Р	Ρ	I	n	Т	IE	9	% EFF a	t load	þ	PF	at lo	bad	I _A /I _N	T_A/T_N	Τ _κ /Τ _Ν
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
380	Y	50	0.75	1.0	2.0	949	7.53	IE4	-	82.7	82.7	78.8	0.69	0.58	0.44	5.3	3.0	3.2
Motor	type				QCA			1	Dea	gree of	protecti	on				IP 55		
Enclosu					TEFC					unting	•					IM B35		
Frame	Material				Cast Ire	on				oling me						IC 411		
Frame	size				90S				Motor weight - approx.							30		kg
Duty			\$1 + 10%						Gro	ss weig	ght - app	rox.				31		kg
Voltage	e variatio	on *			± 10%	6			Мо	Motor inertia						0.0052		kgm²
Freque	ncy varia	ation *			± 5%				Load inertia					Customer to Provide				
Combir	ned varia	tion *			10%				Vib	ration l	evel				1.6			mm/s
Design			Ν					Noi	se level	l (1mete	er distar	nce from	n motor)	51		dB(A)	
Service	factor				1.0				No.	No. of starts hot/cold/Equally spread						2/3/4		
Insulati	ion class				F				Sta	rting m	ethod					DOL		
Ambier	nt tempe	erature			-20 to +	40		°C	Type of coupling							Direct		
Tempe	rature ri	se (by i	resistanc	ce)	80 [Clas	s B]		К	LR	LR withstand time (hot/cold)						15/30		
Altitude	e above	sea lev	el		1000			meter	Dire	Direction of rotation						Bi-directional		
Hazard	ous area	ı classif	ication		NA				Sta	Standard rotation						Clockwise form DE		
	Zone cla	assifica	tion		NA				Pair	nt shad	e					RAL 5014		
	Gas gro	up			NA				Acc	essorie	S							
	Temper	ature o	lass		NA					Acc	cessory	- 1			PTC 150°C			
Rotor t	уре				uminum [Aco	cessory	- 2				-		
Bearing	g type				nti-frictic					Acc	cessory	- 3				-		
DE / NE	DE bearii	ng		6205-2Z / 6205-2Z			Ter	Terminal box position					RHS					
Lubrica	tion me	thod		G	ireased fo	or life			Ma	ximum	cable si	ze/cond	uit size	1R	x 3C x 3	10mm²/2 x N	120 x 1.5	
Type of	f grease				NA				Aux	iliary te	erminal	box				NA		
. /				Rated Cu					T /	E Dro	akdown	Taraua		Taraua				

 $T_{\rm A}/T_{\rm N}$ - 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 combine variation are as per IEC60034-1

Technical da	Technical data are subject to change. There may be discrepancies between calculated and name plate values.										
Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC					
Standards	-	GB 18613-2012 Grade 2	-	-	-	IEC: 60034-30					

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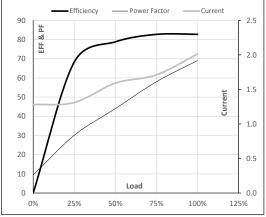
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Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Y	50	0.75	1.0	2.0	949	0.77	7.53	IE4	40	S1	1000	0.0052	30.0

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	1.3	1.3	1.6	1.7	2.0	
Torque	Nm	0.0	1.8	3.7	5.5	7.5	
Speed	r/min	1000	987	976	963	949	
Efficiency	%	0.0	68.3	78.8	82.7	82.7	
Power Factor	%	9.4	30.1	44.0	58.0	69.0	

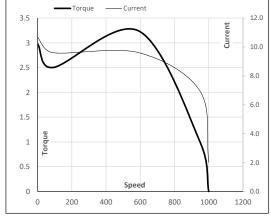
Performance vs Load Chart



Motor Speed Torque Data

	LR	P-Up	BD	Rated	NL	
r/min	0	91	591	949	1000	
А	10.7	9.6	7.0	2.0	1.3	
pu	3.0	2.5	3.2	1	0	
	A	r/min 0 A 10.7	r/min 0 91 A 10.7 9.6	r/min 0 91 591 A 10.7 9.6 7.0	r/min 0 91 591 949 A 10.7 9.6 7.0 2.0	r/min 0 91 591 949 1000 A 10.7 9.6 7.0 2.0 1.3





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

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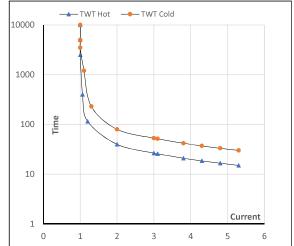
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Δ	50	0.75	1.0	2.0	949	0.77	7.53	IE4	40	S1	1000	0.0052	30.0

Motor Speed Torque Data

Load		FL	I_1	l ₂	I3	I_4	I ₅	LR
TWT Hot	s	10000	40	27	19	17	16	15
TWT Cold	s	10000	80	53	39	35	34	30
Current	pu	1	2	3	4	4.5	5	5.3

Thermal Characteristics Chart



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

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