# **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



Regal and Marathon are trademarks of Regal Rexnord Corporation or one of its affiliated companies. ©2022 Regal Rexnord Corporation, All Rights Reserved. MC017097E







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

# marathon®

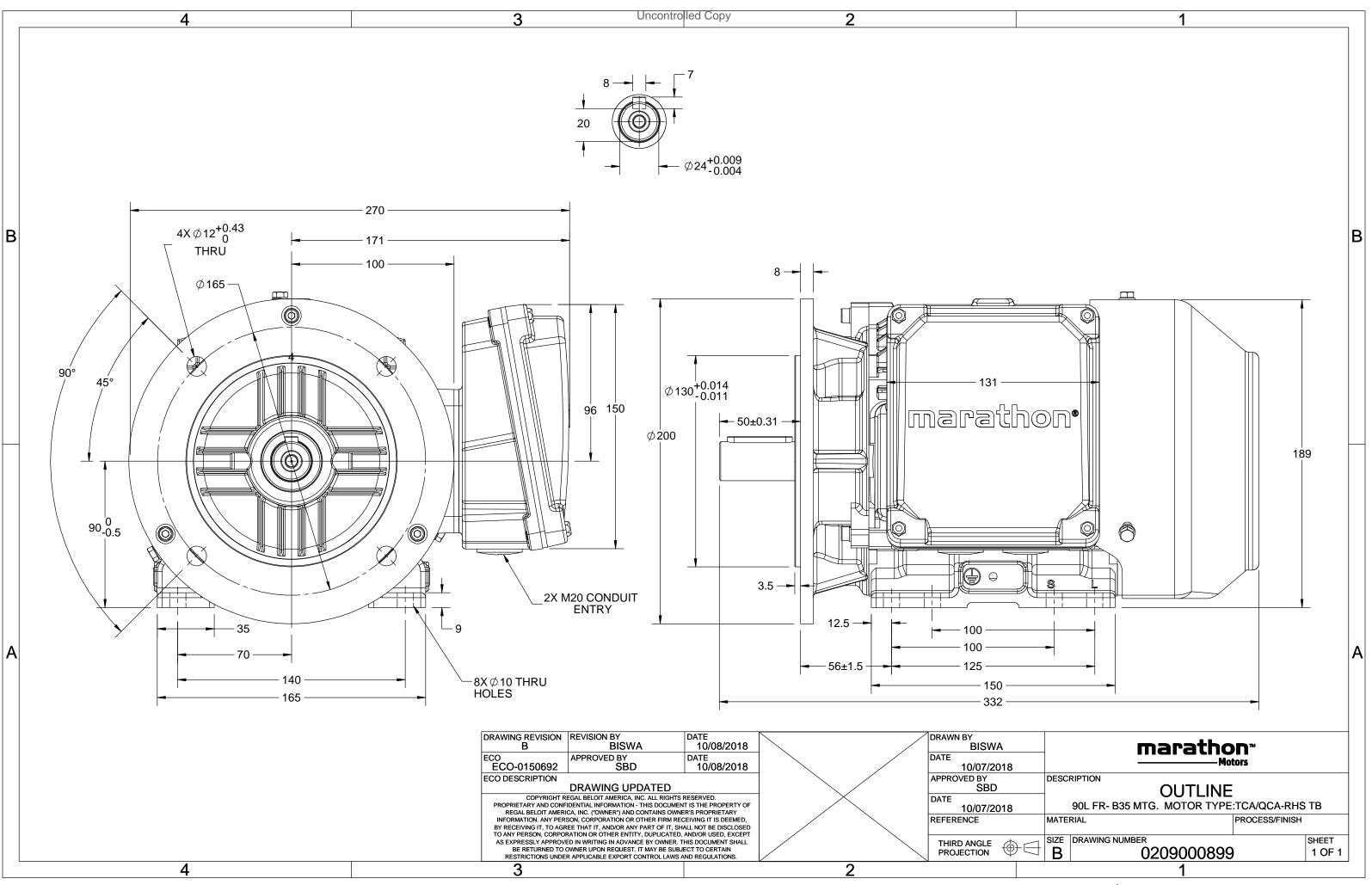
## Nameplate Specifications

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

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:12/01/2022



3 of 7





# **TerraMAX**<sup>®</sup>

Model No. QCAP753AF133GAA001

U	$\Delta / Y$	f	Р	Ρ	I	n	Т	IE	9	% EFF a	t load	þ	PF	at lo	bad	I <sub>A</sub> /I <sub>N</sub>	$T_A/T_N$	Τ <sub>κ</sub> /Τ <sub>Ν</sub>
(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					

# marathon®



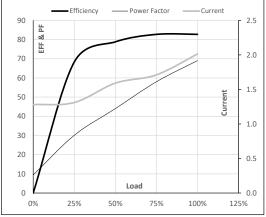
Model No. QCAP753AF133GAA001

Enclosure	U	$\Delta / Y$	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 <sup>2</sup> ]	[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

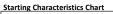
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	1.3	1.3	1.6	1.7	2.0	
Torque	Nm	0.0	1.8	3.7	5.5	7.5	
Speed	r/min	1000	987	976	963	949	
Efficiency	%	0.0	68.3	78.8	82.7	82.7	
Power Factor	%	9.4	30.1	44.0	58.0	69.0	

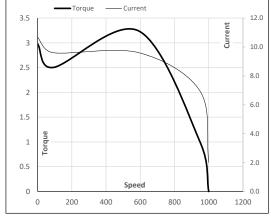
### Performance vs Load Chart



#### 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

Issued By Issued Date

REGAL





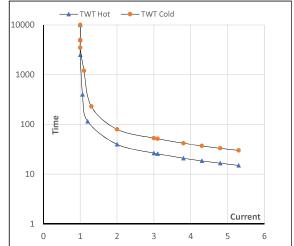
### Model No. QCAP753AF133GAA001

Enclosure	U	$\Delta / Y$	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 <sup>2</sup> ]	[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 <sub>2</sub>	I3	$I_4$	I <sub>5</sub>	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

Issued By Issued Date

REGAL