PRODUCT INFORMATION PACKET

Model No: QCAP753A1141GAA001 Catalog No: QCAP753A1141GAA001 TerraMAX® Cast Iron Motor, 1 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 90S Frame, TEFC



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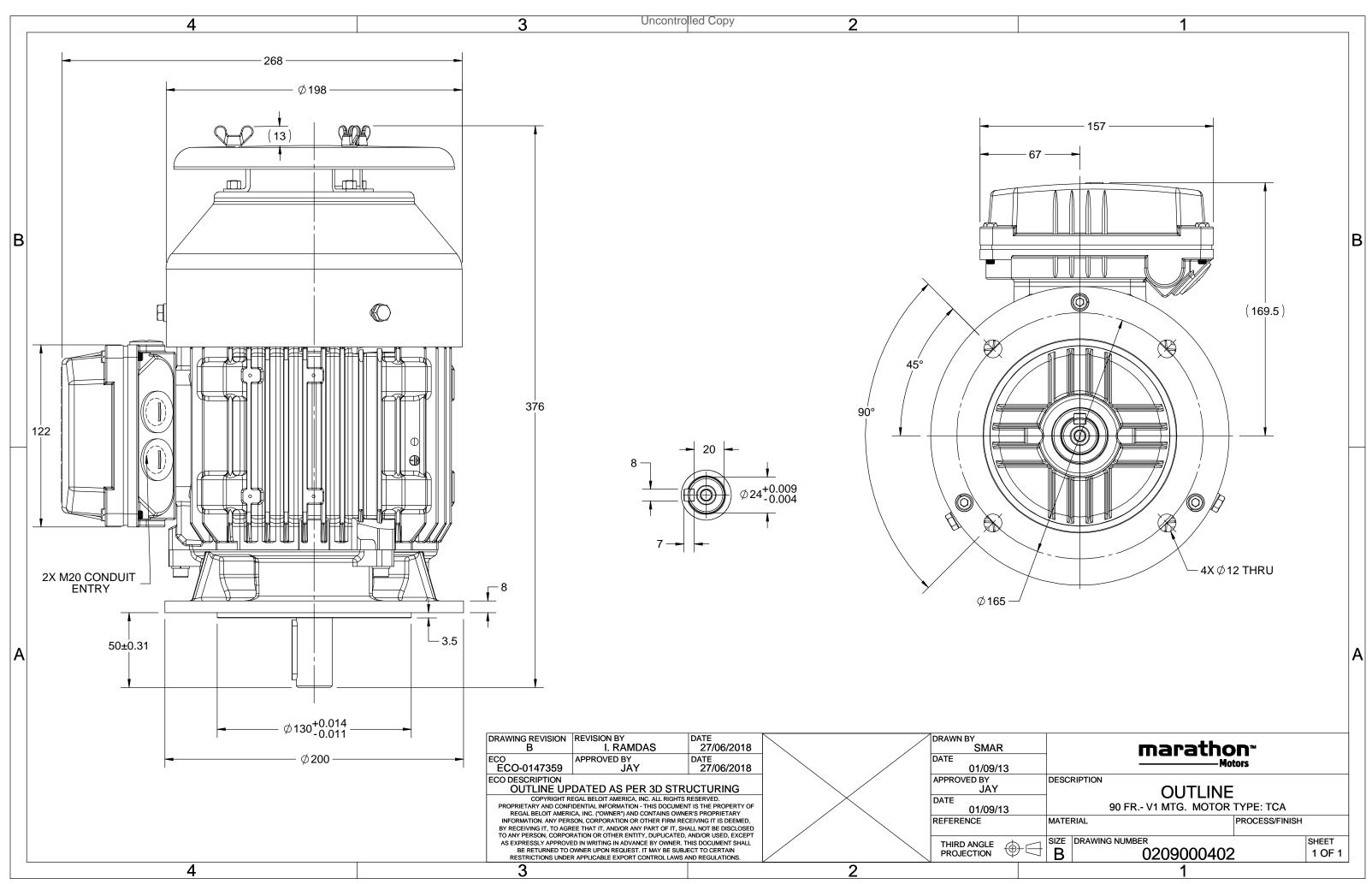
Nameplate Specifications

Output HP	1 Hp	Output KW	0.75 kW
Frequency	50 Hz	Voltage	400 V
Current	1.9 A	Speed	949 rpm
Service Factor	1	Phase	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	No	CSA	No
CE	Yes	IP Code	55
Number of Speeds	1	Efficiency Class	IE4

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line	
Poles	6	Rotation	Bi-Directional	
Mounting	V1	Motor Orientation	Shaftdown	
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3	
Frame Material	Cast Iron	Shaft Type	Keyed	
Overall Length	376 mm	Frame Length	153 mm	
Shaft Diameter	24 mm	Shaft Extension	50 mm	
Assembly/Box Mounting	Тор			
Connection Drawing	8442000085	Outline Drawing	0209000402	

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$U = \Delta / Y$	f	Р	Р	I	n	Т	IE		% EFF a	t load	d	PF	at lo	bad	I_A/I_N	T_A/T_N	T _K /T _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 Y	50	0.75	1.0	1.9	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				De	gree of	protecti	on				IP 55		
Enclosure				TEFC	2			Mo	unting	type					IM V1		
Frame Material				Cast Ir	on			Cod	oling m	ethod					IC 411		
Frame size				90S				Мо	tor wei	ght - ap	prox.				30		k
Duty				S1				Gro	oss weig	ght - app	rox.				31		k
Voltage variation	ז *			± 10%	6			Мо	tor ine	rtia					0.0052		kgm
Frequency variat	tion *			± 5%	i			Loa	d inerti	ia				Cust	omer to Prov	ide	
Combined variat	ion *			10%				Vib	ration l	evel					1.6		mm/s
Design				Ν				Noi	ise leve	l (1mete	er distar	nce fron	n motor	·)	51		dB(A
Service factor				1.0				No	of star	ts hot/c	old/Equ	ally spr	ead		2/3/4		
Insulation class				F				Sta	rting m	ethod					DOL		
Ambient temper	ature			-20 to +	-40		°C	Тур	e of co	upling					Direct		
Temperature rise	e (by r	esistanc	e)	80 [Clas	s B]		к	LR	LR withstand time (hot/cold)					15/30			:
Altitude above se	ea lev	el		1000)		meter	Dir	Direction of rotation					Bi-directional			
Hazardous area d	classif	ication		NA				Sta	Standard rotation					Clockwise form DE			
Zone clas	ssifica	tion		NA				Pai	Paint shade						RAL 5014		
Gas grou	р			NA				Acc	essorie	S							
Tempera	ture c	lass		NA					Ac	cessory	- 1				PTC 150°C		
Rotor type			Al	uminum (Die cast				Ac	cessory	- 2				-		
Bearing type			A	Anti-frictio	on ball				Ac	cessory	- 3				-		
DE / NDE bearing	g		62	205-2Z / 6	205-2Z			Ter	minal b	ox posit	ion				TOP		
Lubrication meth	nod		0	Greased fo	or life			Ma	ximum	cable siz	ze/cond	uit size	1F	R x 3C x 3	10mm²/2 x N	120 x 1.5	
Type of grease				NA				Aux	kiliary te	erminal	box				NA		
I _A /I _N - Locked Rot	tor Cu	rrent / F	Rated Cu	urrent				Т _к /	T _N - Bre	akdown	Torque	/ Rated	d Torque	е			
T _A /T _N - Locked Ro	otor T	orque /	Rated T	orque							-						

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 chang	ge. There may be slight v	variations between calculated v	alues in this datashe	et 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	- 2004	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	Y	50	0.75	1.0	1.9	949	0.77	7.53	IE4	40	S1	1000	0.0052	30

Motor Load Data

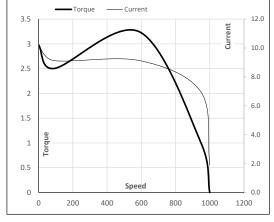
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	1.3	1.3	1.6	1.7	1.9	
Torque	Nm	0.0	1.8	3.7	5.5	7.5	
Speed	r/min	1000	987	976	963	949	
Efficiency	%	0.0	68.3	78.8	82.7	82.7	
Power Factor	%	9.4	30.1	44.0	58.0	69.0	
Power Factor	70	9.4	50.1	44.0	56.0	69.0	

Performance vs Load Chart -Efficiency ------ Power Factor 90 2.5 EFF & PF 80 2.0 70 60 1.5 Current 50 40 1.0 30 20 0.5 10 Load 0 0.0 25% 50% 75% 100% 125% 0%

Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	91	591	949	1000	
Current	А	10.1	9.1	7.0	1.9	1.3	
Torque	pu	3.0	2.5	3.2	1	0	

Starting Characteristics Chart



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

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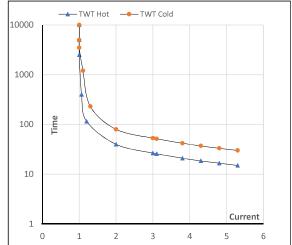
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	0.75	1.0	1.9	949	0.77	7.53	IE4	40	S1	1000	0.0052	30

Motor Speed Torque Data

Load		FL	I_1	I 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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