PRODUCT INFORMATION PACKET

Model No: QCA1P11A1141GAA001 Catalog No: QCA1P11A1141GAA001 TerraMAX® Cast Iron Motor, 1.50 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 80M Frame, TEFC



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Motors

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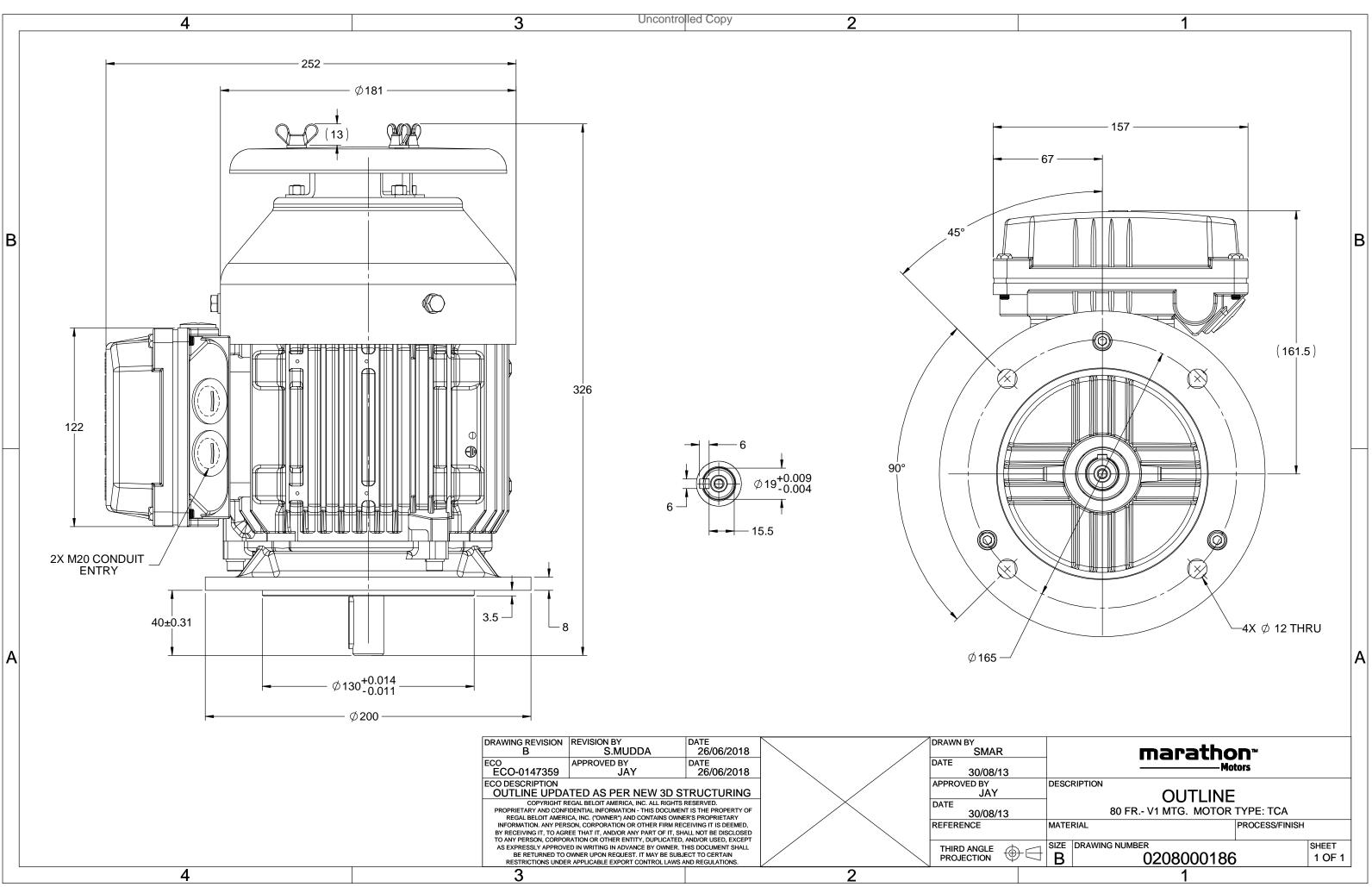
Nameplate Specifications

Output HP	1.50 Hp	Output KW	1.1 kW
Frequency	50 Hz	Voltage	400 V
Current	2.2 A	Speed	2891 rpm
Service Factor	1	Phase	3
Efficiency	85.2 %	Power Factor	0.84
Duty	S1	Insulation Class	F
_		F 1	
Frame	80M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	80M No Protection	Ambient Temperature	40 °C
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection Drive End Bearing Size	No Protection 6204	Ambient Temperature Opp Drive End Bearing Size	40 °C 6204

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	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	326 mm	Frame Length	140 mm
Shaft Diameter	19 mm	Shaft Extension	40 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0208000186

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Model No. QCA1P11A1141GAA001

$U = \Delta / Y = f$	Р	Р	I	n	Т	IE		% EFF a	it load	ł	PF	at lo	bad	I _A /I _N	T_A/T_N	$T_{\rm K}/T_{\rm N}$
(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	1.1	1.5	2.2	2891	3.70	IE4	-	85.2	85.2	82.3	0.84	0.77	0.64	7.8	4.1	4.0
I																
Motor type			QCA				Deg	gree of	protecti	on				IP 55		
Enclosure			TEFC				Мо	unting	type					IM V1		
Frame Material			Cast Ire	on			Cod	oling m	ethod					IC 411		
Frame size			80M				Mo	tor wei	ight - ap	prox.				23.1		kg
Duty			S1				Gro	oss weig	ght - app	rox.				24.1		kg
Voltage variation *			± 10%	6			-						0.0018		kgm ²	
Frequency variation *			± 5%				Eddi mertid					omer to Provi	de			
Combined variation *			10%				Vibration level						1.6			mm/s
Design			Ν				Noise level (1meter distance from mo					n motor				dB(A)
Service factor			1.0			No. of starts hot/cold/Equally spread				ead	2/3/4					
Insulation class			F				Sta	rting m	ethod				DOL			
Ambient temperature			-20 to +	-40		°C	Тур	oe of co	upling					Direct		
Temperature rise (by res	istance	e)	80 [Clas	s B]		к	LR	withsta	nd time	(hot/co	ld)			10/20		S
Altitude above sea level			1000	1		meter	Dir	ection o	of rotatio	on			В	Bi-directional		
Hazardous area classifica	ation		NA				Sta	ndard r	otation				Cloc	ckwise form D	E	
Zone classificatio	n		NA				Pai	nt shad	е					RAL 5014		
Gas group			NA				Acc	cessorie	es							
Temperature clas	SS		NA					Ac	cessory	- 1				PTC 150°C		
Rotor type		Al	uminum [Die cast				Ac	cessory	- 2				-		
Bearing type		A	Anti-frictic	on ball				Ac	cessory	- 3				-		
DE / NDE bearing		62	204-2Z / 6	204-2Z			Ter	minal b	ox posit	ion				TOP		
Lubrication method		(Greased fo	or life			Ma	ximum	cable siz	ze/cond	uit size	1F	R x 3C x 2	10mm²/2 x M	20 x 1.5	
Type of grease			NA				Aux	kiliary te	erminal	box				NA		
I_A/I_N - Locked Rotor Curre							Τ _κ /	T _N - Bre	akdown	Torque	/ Rated	d Torque	e			
T _A /T _N - Locked Rotor Tor	que / F	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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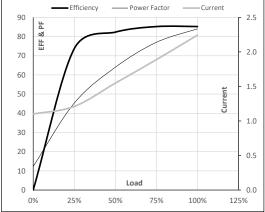
Model No. QCA1P11A1141GAA001

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	1.1	1.5	2.2	2891	0.38	3.70	IE4	40	S1	1000	0.0018	23.1

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	1.1	1.2	1.5	1.9	2.2	
Torque	Nm	0.0	0.9	1.8	2.7	3.7	
Speed	r/min	3000	2972	2947	2920	2891	
Efficiency	%	0.0	73.7	82.3	85.2	85.2	
Power Factor	%	12.3	45.3	64.0	77.0	84.0	
	-	-			-		

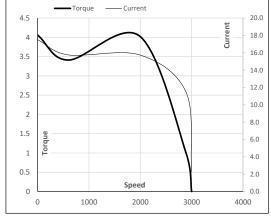
Performance vs Load Chart



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	600	1990	2891	3000	
Current	A	17.5	15.8	11.5	2.2	1.1	
Torque	pu	4.1	3.4	4.0	1	0	

Starting Characteristics Chart



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

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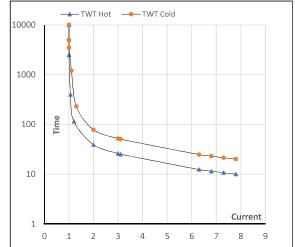
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Y	50	1.1	1.5	2.2	2891	0.38	3.70	IE4	40	S1	1000	0.0018	23.1

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	39	26	23	19	15	10
TWT Cold	s	10000	78	52	45	35	30	20
Current	pu	1	2	3	4	5	5.5	7.8

Thermal Characteristics Chart



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

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