PRODUCT INFORMATION PACKET

Model No: QCA0112A1171GAA001 Catalog No: QCA0112A1171GAA001 TerraMAX® Cast Iron Motor, 15 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 160M Frame, TEFC



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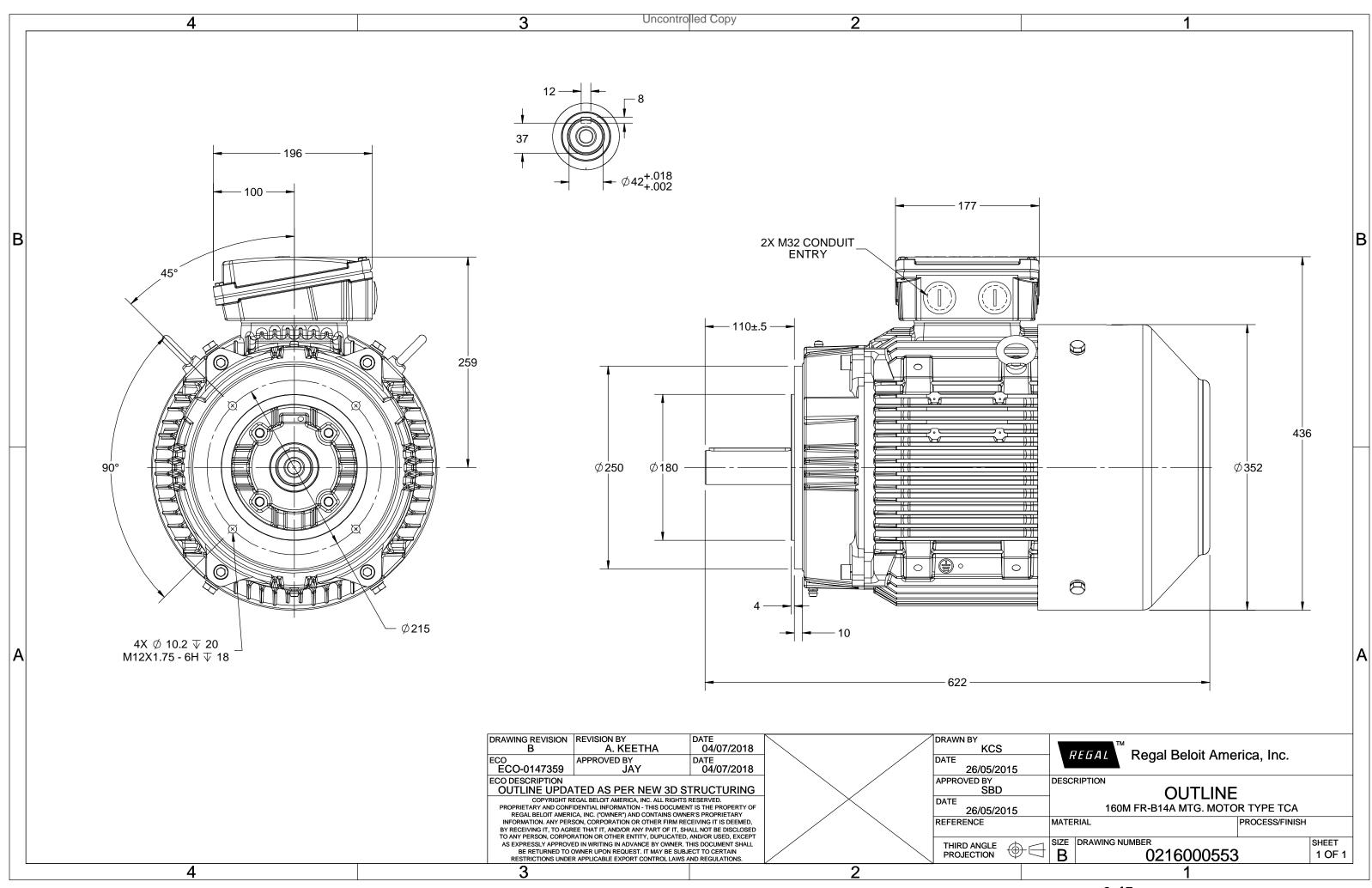
Nameplate Specifications

Output HP	15 Hp	Output KW	11.0 kW
Frequency	50 Hz	Voltage	400 V
Current	21.4 A	Speed	1479 rpm
Service Factor	1	Phase	3
Efficiency	93.3 %	Power Factor	0.8
Duty	S1	Insulation Class	F
Frame	160M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
			40 0
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6209
		·	
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6209

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	B14A	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	622 mm	Frame Length	254 mm
Shaft Diameter	42 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0216000553

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U	Δ/Υ	f	Р	Р	1	n	т	IE		% EFF at	t load	d	PF	at lo	ad	I _A /I _N	T_A/T_N	T _K /T _N
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL		1/2FL	FL		1/2FL	[pu]	[pu]	[pu]
400	Δ	50	11	15	21.3	1479	72.22	IE4	-	93.3	93.3	91.2	0.8	0.73	0.59	8.2	3.1	4.0
Motor	type				QCA				Deg	gree of p	protecti	on				IP 55		
Enclos	ure				TEFC				Mo	unting 1	type					IM B14A		
Frame	Materia	I			Cast Ir	on			Coc	oling me	ethod				IC 411			
Frame	size				160N	1		Motor weight - approx.						159			kg	
Duty					S1				Gross weight - approx.					179			kg	
Voltag	e variatio	on *			± 10%	6			Мо	tor iner	tia					0.1331		kgm ²
Freque	ency vari	ation *			± 5%	i			Loa	Load inertia				Custo	omer to Provid	le		
Combi	ned varia	ation *			10% Vibration level							2.2		mm/s				
Design					Ν				Noi	Noise level (1meter distance from motor))	64		dB(A)	
Service	e factor				1.0				No.	of star	ts hot/c	old/Equ	ally spr	ead		2/3/4		
Insulat	ion class	5			F				Sta	rting me	ethod					DOL		
Ambie	nt tempe	erature			-20 to +	-40		°C	Тур	e of cou	upling					Direct		
Tempe	erature ri	ise (by i	resistand	ce)	80 [Clas	s B]		К	LR	withstar	nd time	(hot/co	ld)			15/30		S
Altitud	e above	sea lev	el		1000)		meter	Dire	ection o	of rotatio	on			В	i-directional		
Hazard	lous area	a classif	ication		NA				Sta	ndard r	otation				Cloc	kwise form D	Ξ	
	Zone cl	assifica	tion		NA				Pair	nt shade	е					RAL 5014		
	Gas gro	oup			NA				Acc	essorie	s							
	Temper	rature o	class		NA					Acc	cessory -	- 1				PTC 150°C		
Rotor t	type			Al	uminum [Die cast				Acc	cessory -	- 2				-		
Bearin	g type			A	Anti-frictic	on ball				Acc	cessory	- 3				-		
DE / N	DE beari	ng		63	809-2Z / 6	209-2Z			Ter	minal b	ox posit	ion				TOP		
Lubrica	ation me	thod		(Greased fo	or life			Ma	ximum	cable siz	ze/cond	uit size	1R	x 3C x 3	35mm²/2 X M3	32 x 1.5	
Туре о	f grease				NA				Aux	diliary te	erminal	box				NA		

 I_A/I_N - Locked Rotor Current / Rated Current $T_{\text{A}}/T_{\text{N}}$ - Locked Rotor Torque / Rated Torque

 $T_{\rm K}/T_{\rm N}$ - 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 da	ta are subject to chan	ge. There may be slight v	ariations between calculated v	alues in this datashee	et and the motor name	plate 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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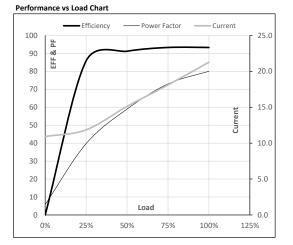


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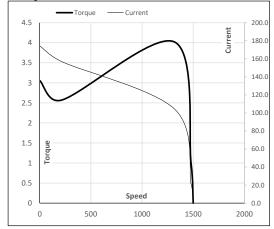
Enclosure	U	Δ / Y	f	Р	Р	1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	11	15	21.3	1479	7.36	72.22	IE4	40	S1	1000	0.1331	159

Motor Load Data

						5/4FL
A	10.9	11.9	15.1	18.1	21.3	
Nm	0.0	17.9	35.9	54.0	72.2	
min	1500	1495	1490	1485	1479	
%	0.0	85.8	91.2	93.3	93.3	
%	5.8	39.7	59.0	73.0	80.0	
	min %	min 1500 % 0.0	min 1500 1495 % 0.0 85.8	min 1500 1495 1490 % 0.0 85.8 91.2	min 1500 1495 1490 1485 % 0.0 85.8 91.2 93.3	min 1500 1495 1490 1485 1479 % 0.0 85.8 91.2 93.3 93.3



Starting Characteristics Chart



Motor Speed Torque Data P-Up BD Rated NL LR Load Point Speed r/min 0 214 1318 1479 1500 Current 174.4 157.0 104.3 21.3 10.9 А Torque pu 3.1 2.6 4.0 1 0

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

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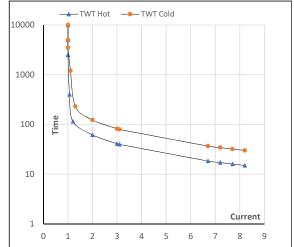
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	11	15	21.3	1479	7.36	72.22	IE4	40	S1	1000	0.1331	159

Motor Speed Torque Data

Load		FL	I_1	l ₂	I ₃	I_4	I ₅	LR
TWT Hot	s	10000	62	41	30	25	20	15
TWT Cold	s	10000	123	82	60	50	39	30
Current	pu	1	2	3	4	5	5.5	8.2

Thermal Characteristics Chart



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

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