PRODUCT INFORMATION PACKET

Model No: TCA0113A1171GAC010 Catalog No: TCA0113A1171GAC010 TerraMAX® Cast Iron Motor, 15 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 160L Frame, TEFC



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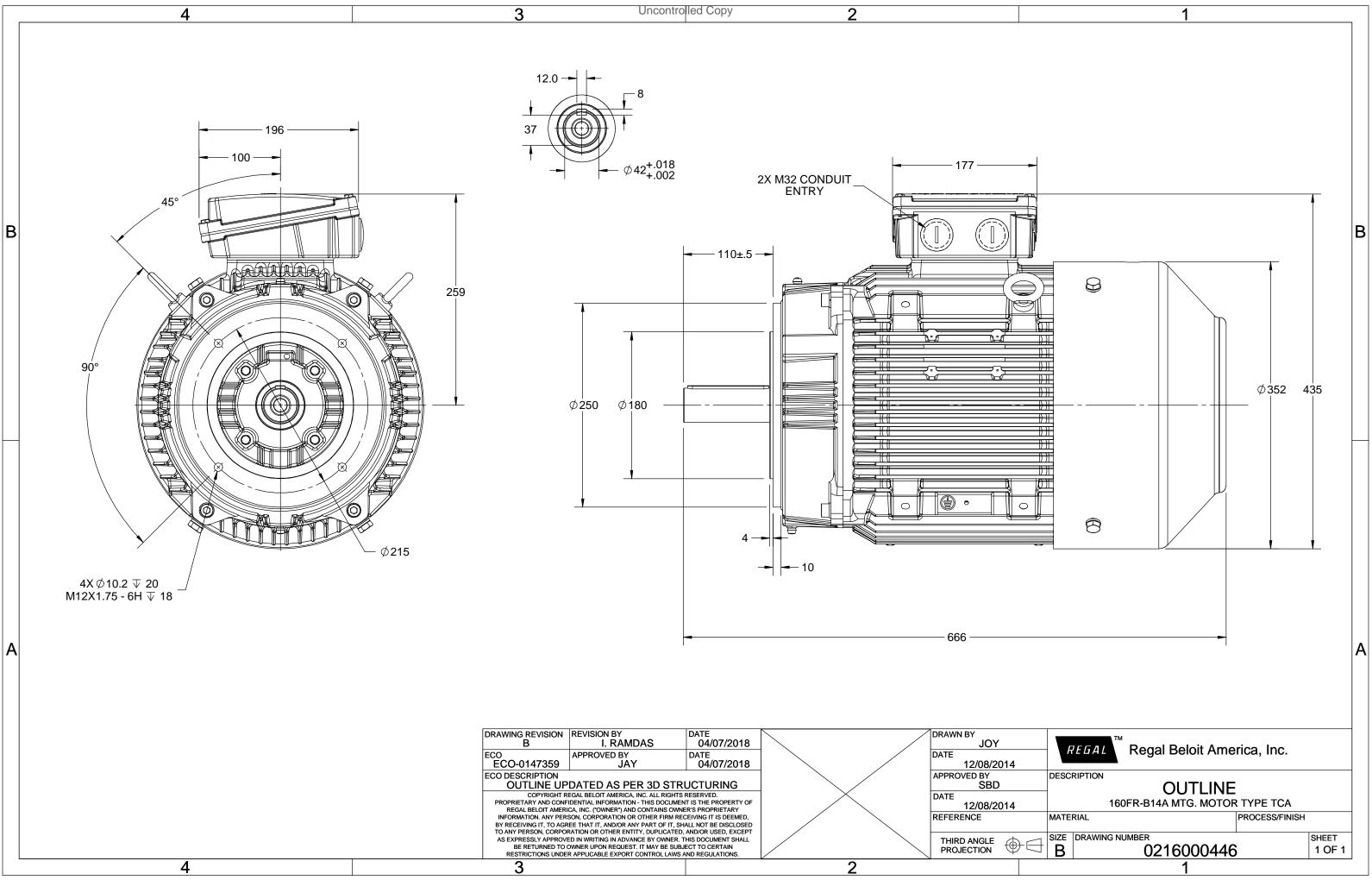
Nameplate Specifications

Output HP	15 Hp	Output KW	11.0 kW			
Frequency	50 Hz	Voltage	400 V			
Current	22.3 A	Speed	977 rpm			
Service Factor	1	Phase	3			
Efficiency	90.3 %	Power Factor	0.79			
Duty	S1	Insulation Class	F			
Frame	160L	Enclosure	Totally Enclosed Fan Cooled			
Thermal Protection	No Protection	Ambient Temperature	40 °C			
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6209			
UL	No	CSA	No			
CE	Yes	IP Code	55			
Efficiency Class	IE3					

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	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	666 mm	Frame Length	298 mm
Shaft Diameter	42 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0216000446	Connection Drawing	8442000085

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$U = \Delta / Y = f$	Р	Р	Ι	n	Т	IE		% EFF at	t_loa	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 Δ 50	11	15	22.3	977	109.33	IE3	-	90.3	90.3	89.6	0.79	0.73	0.59	5.6	2.0	2.6
Motor type			TCA					gree of I		on				IP 55		
Enclosure			TEFC					ounting						IM B14A		
Frame Material			Cast Iro	n				oling me						IC 411		
Frame size			160L				Mo	tor wei	ght - ap	prox.				164		kg
Duty			S1				Gro	oss weig	ht - app	rox.				184		kg
Voltage variation *			± 10%				Mo	otor iner	tia					0.1811		kgm ²
Frequency variation '	¢		± 5%				Loa	id inerti	а				Custo	omer to Pro	vide	
Combined variation *			10%				Vib	ration l	evel					2.2		mm/s
Design			Ν				No	ise level	(1met	er distar	nce fror	n motor)	61		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 me	ethod					DOL		
Ambient temperatur	e		-20 to +4	40		°C	Тур	e of cou	upling					Direct		
Temperature rise (by	resistanc	e)	80 [Class	B]		К	LR	withstar	nd time	(hot/co	ld)			15/30		S
Altitude above sea le	vel		1000			meter	Dir	ection o	f rotatio	on			В	i-directional	I	
Hazardous area class	ification		NA				Sta	ndard r	otation				Cloc	ckwise form	DE	
Zone classific	ation		NA				Pai	nt shade	e					RAL 5014		
Gas group			NA				Acc	essorie	S							
Temperature	class		NA					Acc	essory	- 1				PTC 150°C		
Rotor type		Al	uminum D	ie cast				Acc	essory	- 2				-		
Bearing type		A	Anti-frictio	n ball				Acc	essory	- 3				-		
DE / NDE bearing		63	09-2Z / 6	209-2Z			Ter	minal b	ox posit	ion				TOP		
Lubrication method		C	Greased fo	r life			Ma	ximum	cable si	ze/cond	luit size	1R	x 3C x 3	35mm²/2 X I	M32 x 1.5	
Type of grease			NA					kiliary te						NA		

 $I_{\text{A}}/I_{\text{N}}$ - Locked Rotor Current / Rated Current

 $T_{\rm K}/T_{\rm N}$ - Breakdown Torque / Rated Torque

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





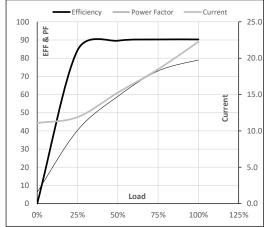
Model No. TCA0113A1171GAC010

Enclosure	U	Δ / Y	f	Р	Р	I	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	15.0	22.3	977	11.15	109.33	IE3	40	S1	1000	0.1811	164

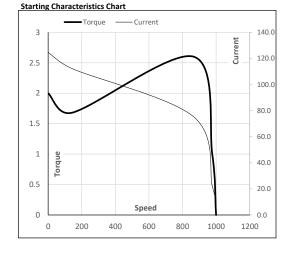
Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	11.1	11.9	15.3	18.5	22.3	
Torque	Nm	0.0	26.9	54.0	81.5	109.3	
Speed	r/min	1000	995	989	984	977	
Efficiency	%	0.0	84.3	89.6	90.3	90.3	
Power Factor	%	6.3	40.3	59.0	73.0	79.0	

Performance vs Load Chart



Motor Speed Torque Data											
Load Point		LR	P-Up	BD	Rated	NL					
Speed	r/min	0	143	866	977	1000					
Current	А	124.6	112.2	75.3	22.3	11.1					
Torque	pu	2.0	1.7	2.6	1	0					



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

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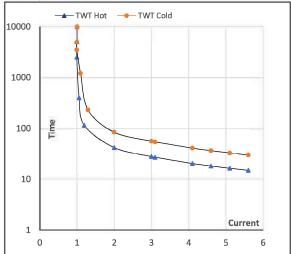
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Enclosure	U	Δ/Υ	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
-	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	11	15.0	22.3	977	11.15	109.33	IE3	40	S1	1000	0.1811	164

Motor Speed Torque Data

Load	-	FL	I_1	l ₂	l ₃	I ₄	۱ ₅	LR
TWT Hot	s	10000	42	28	22	19	17	15
TWT Cold	s	10000	84	56	43	38	35	30
Current	pu	1	2	3	4	4.5	5	5.6

Thermal Characteristics Chart



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

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