PRODUCT INFORMATION PACKET

Model No: TCA0371A3113GACD01 Catalog No: TCA0371A3113GACD01 Cast Iron Motor, 50 HP, 3 Ph, 50 Hz, 415 V, 3000 RPM, 200L Frame, TEFC



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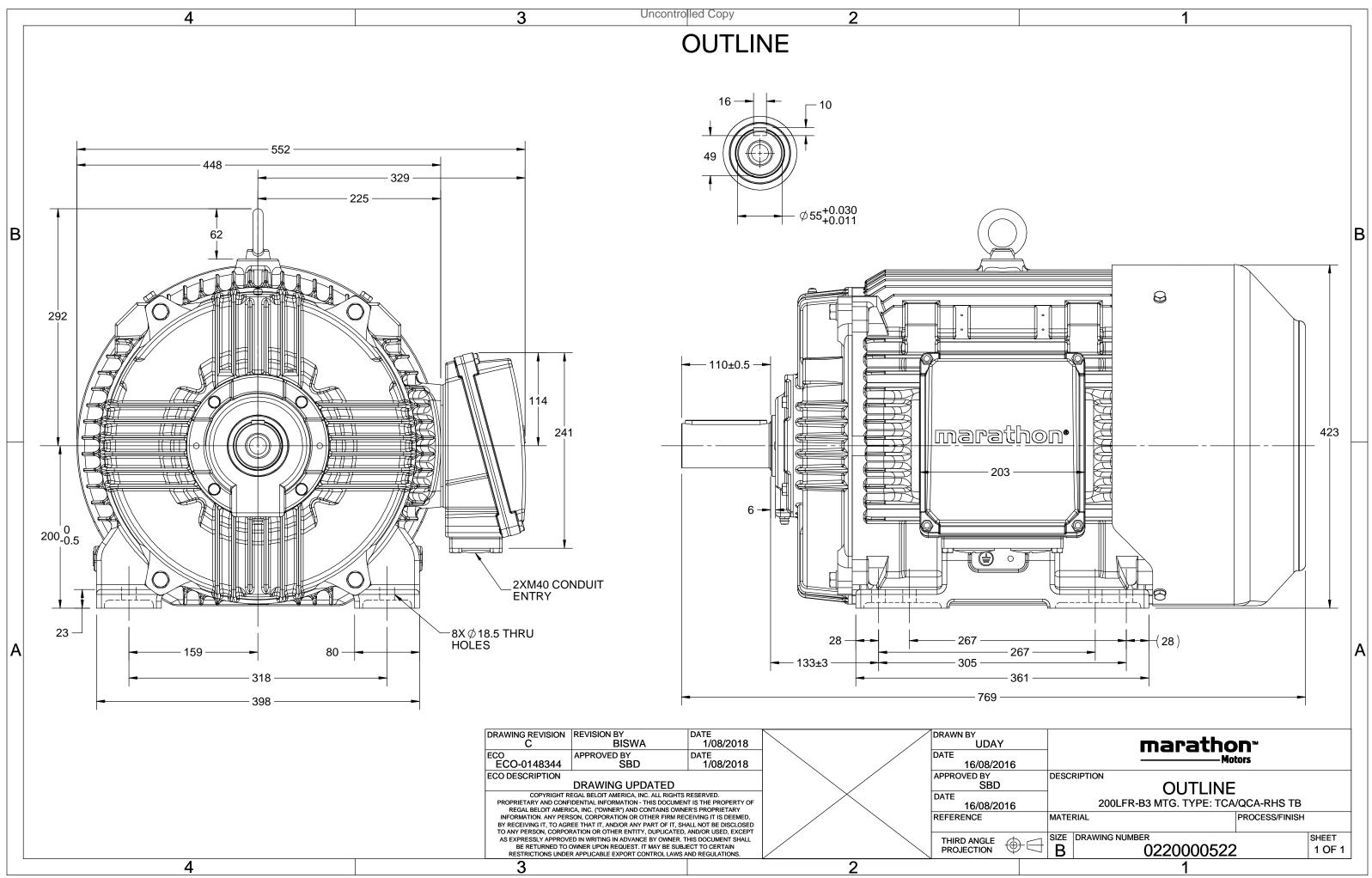
Nameplate Specifications

Output HP	50 Hp	Output KW	37.0 kW
Frequency	50 Hz	Voltage	415 V
Current	61.7 A	Speed	2969 rpm
Service Factor	1	Phase	3
Efficiency	93.7 %	Power Factor	0.89
Duty	S1	Insulation Class	F
Frame	200L	Enclosure	Totally Enclosed Fan Cooled
			, ,
Thermal Protection	No Protection	Ambient Temperature	50 °C
Thermal Protection	No Protection	Ambient Temperature	50 °C
Thermal Protection Drive End Bearing Size	No Protection 6312	Ambient Temperature Opp Drive End Bearing Size	50 °C 6212

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	Rotation	Bi-Directional
Mounting	B3	Motor Orientation	Horizontal
Drive End Bearing	C3	Opp Drive End Bearing	СЗ
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	769 mm	Frame Length	370 mm
Shaft Diameter	55 mm	Shaft Extension	110 mm
Assembly/Box Mounting	R Side		
Connection Drawing	8442000085	Outline Drawing	0220000522

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Model No. TCA0371A3113GACD01

U	Δ / Y	f	Р	Р	1	n	т	IE		% EFF at	heol		DF	at lo	her	I _A /I _N	т./т.	T _K /T _N
(V)	Conn	' [Hz]	[kW]	' [hp]	[A]	[RPM]	[Nm]	Class	5/4FL			1/2FL	FL		1/2FL	[pu]	[pu]	[pu]
415	Δ	50	37	50	61.7	2969	119.94	IE3	5/4FL	93.7	93.7	92.8	0.89	0.86	0.78	[pu] 6.7	2.0	<u>[pu]</u> 3.2
415	Δ	50	57	50	01.7	2909	119.94	125	-	55.7	93.7	92.0	0.85	0.80	0.78	0.7	2.0	5.2
																•		
Motor t	уре				TCA				[Degree of	protecti	on				IP 55		
Enclosu	re				TEFC				r	Mounting	type					IM B3		
Frame N	rame Material Cast Iron					C	Cooling m	ethod					IC 411					
Frame s	ame size 200L						r	Motor wei	ght - ap	prox.				297		kg		
Duty	ity S1					C	Gross weight - approx.						326		kg			
Voltage	Itage variation * ± 10%					1	Motor ine	rtia				0.2934			kgm ²			
Frequer	equency variation * ± 5%					L	.oad inert	а				Custo	omer to Provi	de				
Combin	mbined variation * 10%					١	/ibration l	evel					2.2		mm/s			
Design					Ν				1	Noise leve	l (1met	er distaı	nce fror	n motor)	73		dB(A)
Service	factor				1.0				1	No. of star	ts hot/c	old/Equ	ally spr	ead		2/3/4		
Insulatio	on class				F				S	Starting m	ethod					DOL		
Ambien	t tempe	erature			-20 to +	-50		°C	1	Type of coupling						Direct		
Temper	ature ri	se (by i	resistanc	e)	70 [Clas	s B]		к	L	LR withstand time (hot/cold)						15/30		
Altitude	above	sea lev	el		1000			meter	[Direction of rotation					В	i-directional		
Hazardo	ous area	l classif	ication		NA				S	Standard r	otation				Cloc	kwise form D	E	
	Zone cla	assifica	tion		NA				F	Paint shad	e					RAL 5014		
	Gas gro	up			NA				F	Accessorie	s							
	Temperature class NA					Ac	cessory	- 1				-						
Rotor ty	/pe			Al	uminum [Die cast				Ac	cessory	- 2				-		
Bearing	type			Anti-	friction ba	all bearing				Ac	cessory	- 3				-		
DE / ND	E beari	ng		63	12 C3/6	212 C3			1	Ferminal b	ox posi	tion				RHS		
Lubricat	tion me	thod			Regrease	able			n	Maximum	cable si	ze/cond	uit size	1R	1R x 3C x 50mm²/2 x M40 x 1.5			
Type of	grease		Sh	ell Gadi	us S5 V10	0 or Equiv	alent		F	Auxiliary terminal box				NA				

 $\rm I_A/\rm I_N$ - Locked Rotor Current / Rated Current

 T_A/T_N - Locked Rotor Torque / Rated Torque

T_{K}/T_{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 combine variation are as per IEC60034-1

Technical data are subject to change. There may be discrepancies between calculated and name plate values

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Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC						
Standards	-	-	IS 12615 : 2018	-	-	-						



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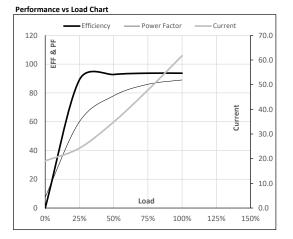


Model No. TCA0371A3113GACD01

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	415	Δ	50	37	50.0	61.7	2969	12.23	119.94	IE3	50	S1	1000	0.2934	296

Motor Load Data

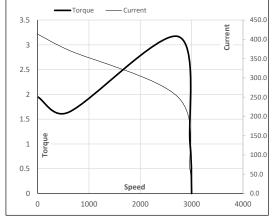
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	19.1	24.3	34.9	47.8	61.7	
Torque	Nm	0.0	29.7	59.6	89.7	119.9	
Speed	r/min	3000	2992	2985	2977	2969	
Efficiency	%	0.0	89.1	92.8	93.7	93.7	
Power Factor	%	7.6	60.0	78.0	86.0	89.0	



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	600	2731	2969	3000	
Current	А	413.6	372.2	250.6	61.7	19.1	
Torque	pu	2.0	1.6	3.2	1	0	

Starting Characteristics Chart



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

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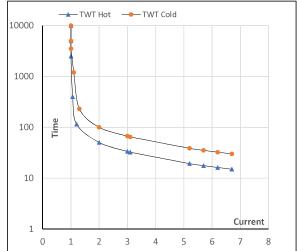
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Enclosure	U	Δ / Y	f	Р	Ρ	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	415	Δ	50	37	50	61.7	2969	12.22	119.94	IE3	50	S1	1000	0.2934	296

Motor Speed Torque Data

Wotor Speed	TOTY	ue Dala						
Load		FL	I_1	I_2	I_3	I_4	I ₅	LR
TWT Hot	S	10000	50	34	28	20	18	15
TWT Cold	s	10000	100	67	60	42	36	30
Current	pu	1	2	3	4	5	5.5	6.7

Thermal Characteristics Chart



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

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