PRODUCT INFORMATION PACKET

Model No: TCA0302A3133GACD01 Catalog No: TCA0302A3133GACD01 Cast Iron Motor, 40 HP, 3 Ph, 50 Hz, 415 V, 1500 RPM, 200L Frame, TEFC



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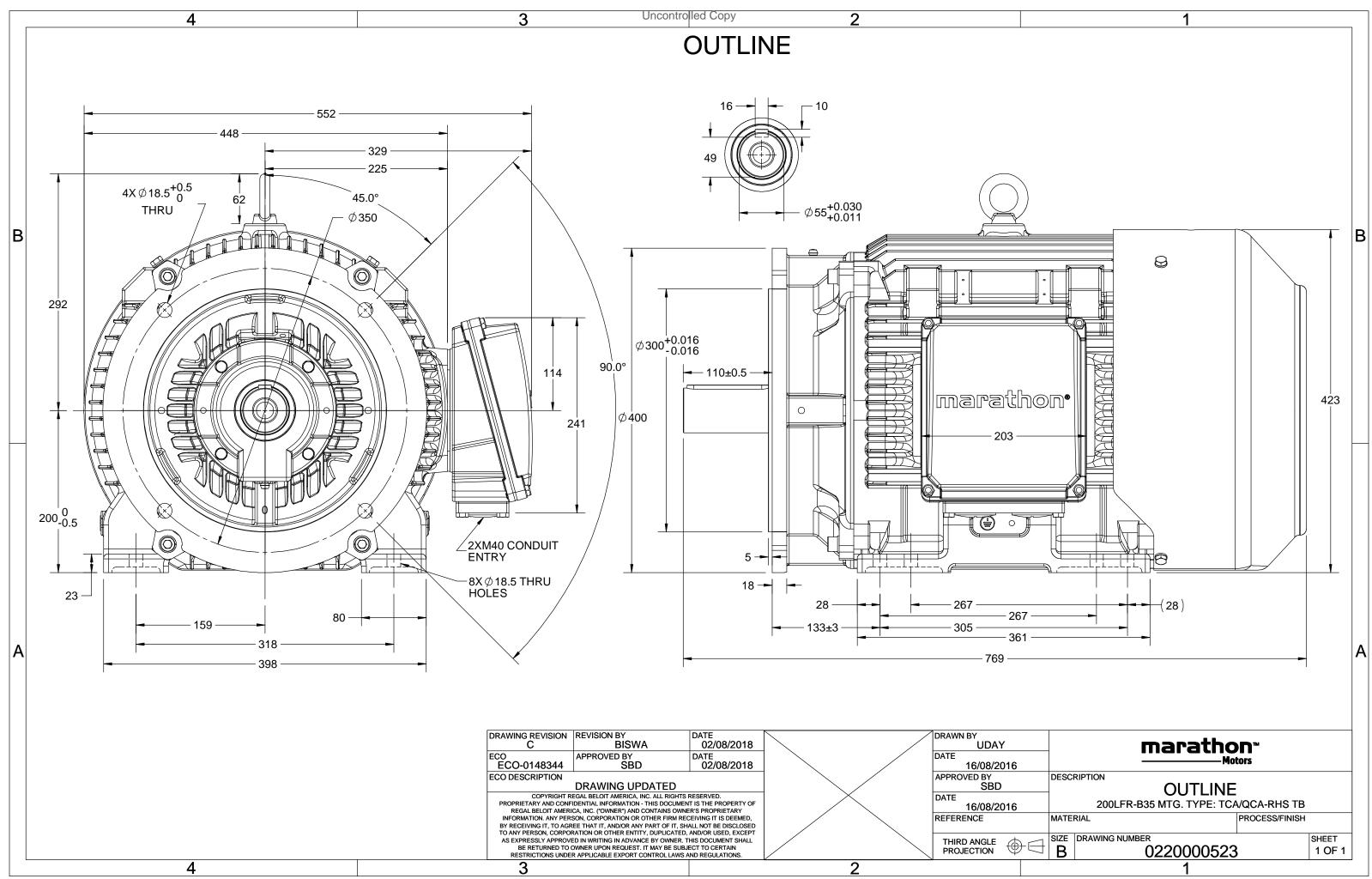
Nameplate Specifications

Output HP	40 Hp	Output KW	30.0 kW
Frequency	50 Hz	Voltage	415 V
Current	51.9 A	Speed	1480 rpm
Service Factor	1	Phase	3
Efficiency	93.6 %	Power Factor	0.86
Duty	S1	Insulation Class	F
Frame	200L	Enclosure	Totally Enclosed Fan Cooled
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
		·	
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6212

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	B35	Motor Orientation	Horizontal
Drive End Bearing	СЗ	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	0220000523

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RHS 1R x 3C x 50mm²/2 x M40 x 1.5

NA

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$U = \Delta / Y$	f	Р	Р	I.	n	т	IE	%	EFF at _	_load		PF	at _ lo	bad	I_A/I_N	T_A/T_N	T_{K}/T_{N}
(V) Conn [H	Hz] [k	[W	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
415 Δ 5	50 3	30	40	51.8	1480	192.45	IE3	-	93.6	93.6	93.8	0.86	0.82	0.72	7.1	2.3	3.1
															10.55		
Motor type				TCA					egree of	•	on				IP 55		
Enclosure				TEFC					ounting						IM B35		
Frame Material				Cast Iro				Co	oling m	ethod					IC 411		
Frame size				200L				Μ	otor wei	ght - ap	prox.				297		kg
Duty				S1				Gross weight - approx.					327		kg		
Voltage variation	*			± 10%	b			Μ	otor ine	rtia					0.4947		kgm ²
Frequency variation	on *			± 5%				Lo	ad inert	ia				Custo	omer to Prov	ide	
Combined variation	on *			10%				Vi	bration l	evel					2.2		mm/s
Design				Ν				No	oise leve	l (1met	er distar	nce fror	n motor	.)	65		dB(A)
Service factor				1.0				No	o. of star	ts hot/c	old/Equ	ally spr	ead		2/3/4		
Insulation class				F				St	arting m	ethod					DOL		
Ambient temperat	iture			-20 to +	50		°C	Ту	pe of co	upling					Direct		
Temperature rise	(by resis	stance	e)	70 [Class	s B]		к	LR	withsta	nd time	(hot/co	ld)			15/30		S
Altitude above sea	a level			1000			meter	Di	rection o	of rotati	on			В	i-directional		
Hazardous area cla	lassificat	ion		NA				St	andard r	otation				Cloc	kwise form I	DE	
Zone class	sification	1		NA				Pa	int shad	e					RAL 5014		
Gas group)			NA				Ac	cessorie	S							
Temperatu	ure class	5		NA					Ac	cessory	- 1				-		
Rotor type			Alu	ıminum D	Die cast				Ac	cessory	- 2				-		

 DE / NDE bearing
 6312 C3 / 6212 C3

 Lubrication method
 Regreasable

 Type of grease
 Shell Gadus S5 V100 or Equivalent

 T_{κ}/T_{N} - Breakdown Torque / Rated Torque

Accessory - 3

Maximum cable size/conduit size

Terminal box position

Auxiliary terminal box

 I_A/I_N - Locked Rotor Current / Rated Current T_A/T_N - Locked Rotor Torque / Rated Torque

NOTE

Bearing type

All performance values at rated voltage and frequency.

All performance parameters are subjected to standard tolerance as per IEC 60034-1

Anti-friction ball bearing

 $\ensuremath{^*}$ 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.

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



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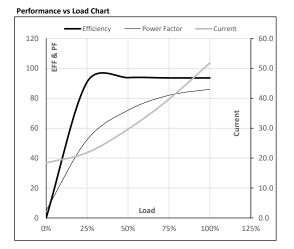


Model No. TCA0302A3133GACD01

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	30	40	51.8	1480	19.62	192.45	IE3	50	S1	1000	0.4947	297

Motor Load Data

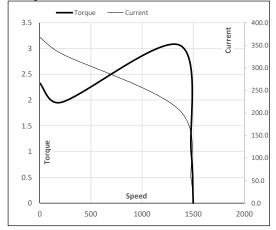
A 10					
A 18	4 21.8	29.7	39.7	51.8	
lm 0.0	47.6	95.6	143.8	192.4	
nin 150	0 1495	1491	1486	1480	
% 0.	90.9	93.8	93.6	93.6	
% 5.	1 52.3	72.0	82.0	86.0	
	nin 150 % 0.0	nin 1500 1495 % 0.0 90.9	nin 1500 1495 1491 % 0.0 90.9 93.8	nin 1500 1495 1491 1486 % 0.0 90.9 93.8 93.6	nin 1500 1495 1491 1486 1480 % 0.0 90.9 93.8 93.6 93.6



Motor Speed Torque Data									
Load Point	I R	P-LIn	BD						

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	214	1362	1480	1500	
Current	А	368.1	331.3	207.2	51.8	18.4	
Torque	pu	2.3	2.0	3.1	1	0	

Starting Characteristics Chart



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

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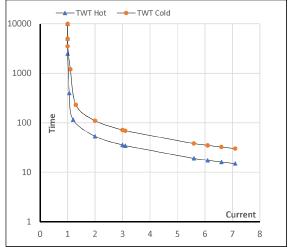
Model No. TCA0302A3133GACD01

[ka]	r. 2.									Р	I P	T	Δ / Y		Enclosure
[kg]	[kg-m ²]	[m]		[°C]	Class	[Nm]	[kgm]	[rpm]	[A]	[hp]	[kW]	[Hz]	Conn	(V)	
297	0.4947	1000	S1	50	IE3	192.45	19.61	1480	51.8	40	30	50	Δ	415	TEFC
	0.4947	1000	51	50	125	192.45	15.01	1400	51.0	40	50	50	4	11	TEFC

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	l ₅	LR
TWT Hot	S	10000	53	36	30	25	20	15
TWT Cold	s	10000	110	71	65	50	40	30
Current	pu	1	2	3	4	5	5.5	7.1

Thermal Characteristics Chart



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

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