PRODUCT INFORMATION PACKET

Model No: TCA0302A1133GAC010 Catalog No: TCA0302A1133GAC010 TerraMAX® Cast Iron Motor, 40 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 200L Frame, TEFC



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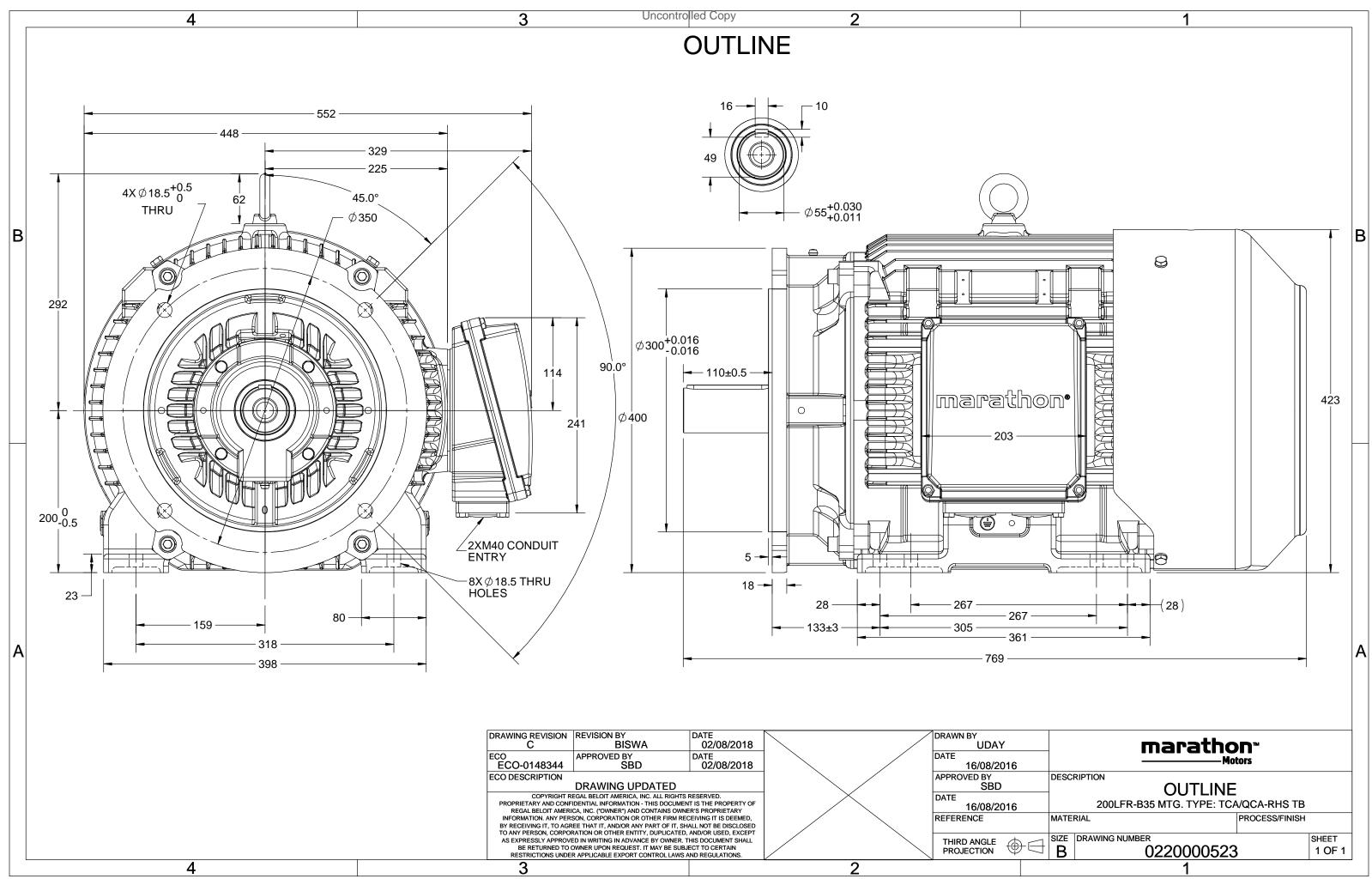
Nameplate Specifications

Output HP	40 Hp	Output KW	30.0 kW		
Frequency	50 Hz	Voltage	400 V		
Current	54.4 A	Speed	1479 rpm		
Service Factor	1	Phase	3		
Efficiency	93.6 %	Power Factor	0.85		
Duty	S1	Insulation Class	F		
Frame	200L	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Ambient Temperature	40 °C		
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6212		
UL	No	CSA	No		
CE	Yes	IP Code	55		
Efficiency Class	IE3				

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	B35	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		
Outline Drawing	0220000523	Connection Drawing	8442000085

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$U = \Delta / Y$	f	Р	Р	I	n	Т	IE		% EFF a	t load	ł	PF	at lo	bad	I _A /I _N	T_A/T_N	$T_{\rm K}/T_{\rm N}$
(V) Conn [l	Hz]	[kW] [l	hp] [[A] [[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
400 Δ	50	30	40 5	54.4	1479	192.65	IE3	-	93.6	93.6	93.6	0.85	0.82	0.72	6.6	2.2	2.9
				TCA				-							IP 55		
Motor type				TCA					gree of		on						
Enclosure TEFC								ounting						IM B35			
	rame Material Cast Iron							oling me						IC 411			
Frame size				200L					otor wei						282		kg
Duty	Duty S1							oss weig		rox.				312		kg kgm ²	
Voltage variation	5						Mo	Motor inertia						0.4488			
Frequency variation	requency variation * ± 5%					Loa	ad inerti	а				Customer to Provide					
Combined variation	ombined variation * 10%					Vib	ration l	evel					2.2		mm/s		
Design				Ν				No	Noise level (1meter distance from motor)						,		
Service factor				1.0				No. of starts hot/cold/Equally spread							2/3/4		
Insulation class				F				Sta	rting m	ethod					DOL		
Ambient tempera	ture		-2	0 to +40)		°C	Type of coupling						Direct			
Temperature rise	(by re	sistance)	80	[Class B	3]		К	LR	LR withstand time (hot/cold)						15/30		s
Altitude above sea	a level			1000			meter	Dir	Direction of rotation						i-directiona	al	
Hazardous area cl	lassific	ation		NA				Sta	ndard r	otation				Cloc	kwise form	DE	
Zone class	sificatio	on		NA				Pai	nt shad	e					RAL 5014		
Gas group)			NA				Acc	cessorie	s							
Temperati	Temperature class NA						Acc	essory -	- 1				PTC 150°C				
Rotor type	otor type Aluminum Die cast						Accessory - 2						-				
Bearing type		Anti-friction ball						Accessory - 3						-			
DE / NDE bearing						Ter	Terminal box position						RHS				
Lubrication metho			Reg	greasabl	le				•						R x 3C x 50mm²/2 x M40 x 1.5		
Type of grease		СН	IEVRON S	SRI-2 or E	Equival	ent			Auxiliary terminal box						NA		
,,									. , .								

 $I_{\text{A}}/I_{\text{N}}$ - Locked Rotor Current / Rated Current $\rm T_A/\rm T_N$ - 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 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 --_



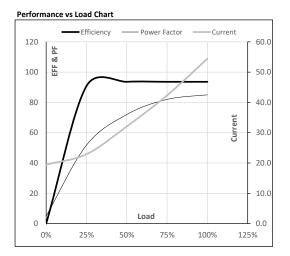


Model No. TCA0302A1133GAC010

Enclosure	U	Δ / Y	f	Р	Р	1	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	30	40.0	54.4	1479	19.64	192.65	IE3	40	S1	1000	0.4488	282

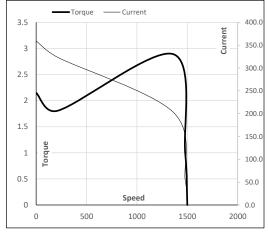
Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	19.5	22.9	32.1	42.3	54.4	
Torque	Nm	0.0	47.6	95.6	143.9	192.6	
Speed	r/min	1500	1495	1490	1485	1479	
Efficiency	%	0.0	90.8	93.6	93.6	93.6	
Power Factor	%	5.0	51.8	72.0	82.0	85.0	



Motor Speed	Motor Speed Torque Data												
Load Point		LR	P-Up	BD	Rated	NL							
Speed	r/min	0	214	1361	1479	1500							
Current	А	359.2	323.3	203.2	54.4	19.5							
Torque	pu	2.2	1.8	2.9	1	0							





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

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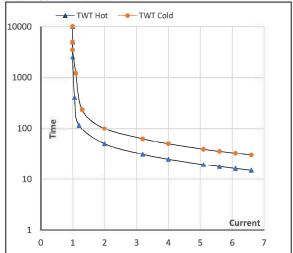
Model No. TCA0302A1133GAC010

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	30	40.0	54.4	1479	19.64	192.65	IE3	40	S1	1000	0.4488	282

Motor Speed Torque Data

Load	-	FL	I_1	l ₂	l ₃	I ₄	I ₅	LR
TWT Hot	s	10000	50	42	25	21	19	15
TWT Cold	s	10000	99	65	50	41	37	30
Current	pu	1	2	3	4	5	5.5	6.6

Thermal Characteristics Chart



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

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