PRODUCT INFORMATION PACKET

Model No: TCA0752A1133GAC010 Catalog No: TCA0752A1133GAC010 TerraMAX® Cast Iron Motor, 100 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 280S Frame, TEFC



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marathon®

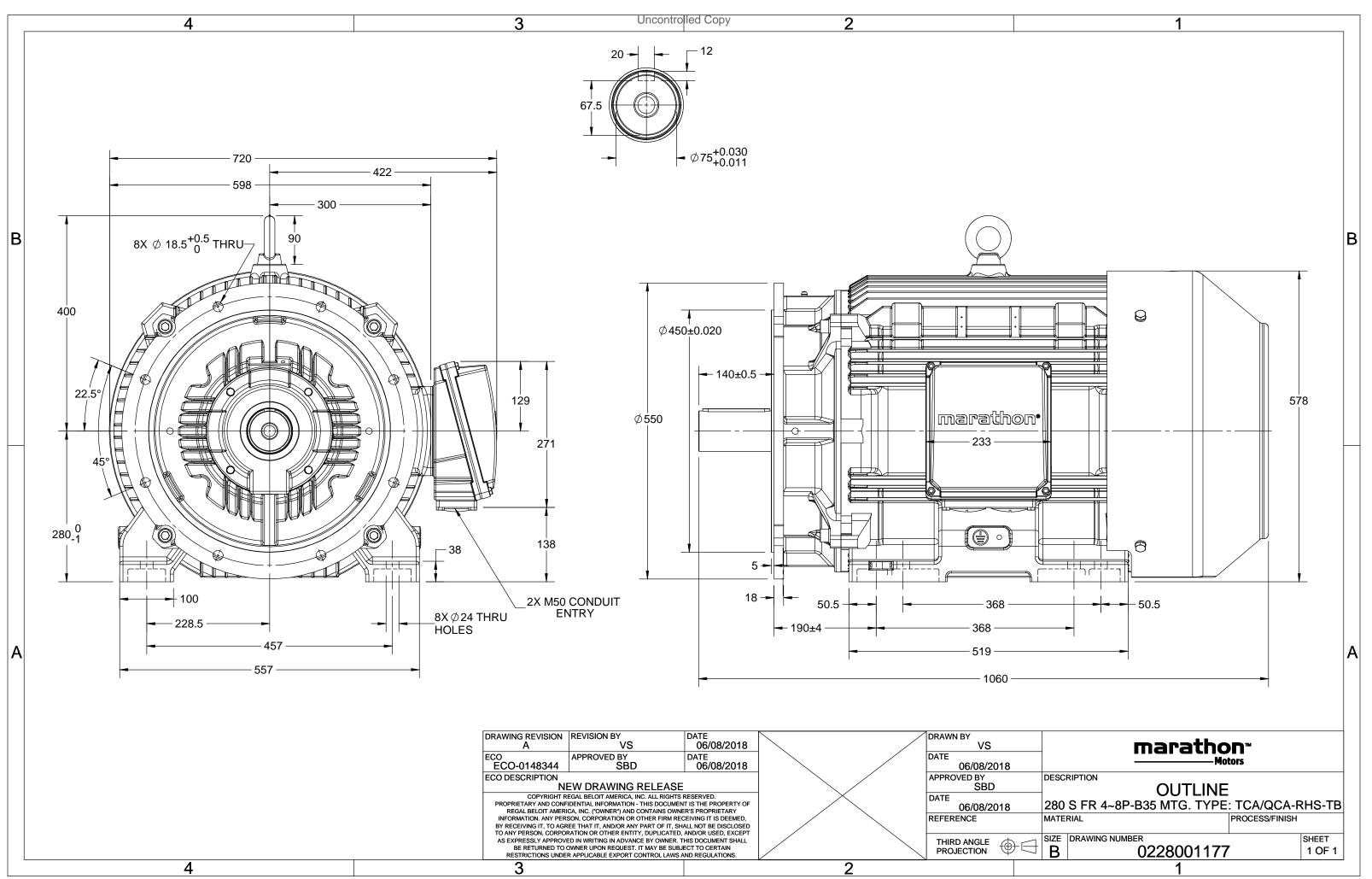
Nameplate Specifications

Output HP	100 Hp	Output KW	75.0 kW
Frequency	50 Hz	Voltage	400 V
Current	131.0 A	Speed	1489 rpm
Service Factor	1	Phase	3
Efficiency	95 %	Power Factor	0.87
Duty	S1	Insulation Class	F
Frame	280S	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6317	Opp Drive End Bearing Size	6317
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	С3	
Frame Material	Cast Iron	Shaft Type	Keyed	
Overall Length	1060 mm	Frame Length	549 mm	
Shaft Diameter	75 mm	Shaft Extension	140 mm	
Assembly/Box Mounting	R Side			
Connection Drawing	8442000085	Outline Drawing	0228001177	

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TerraMAX[®]

Model No. TCA0752A1133GAC010

U	Δ / Y	f	Р	Р	I	n	Т	IE	9	% 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	[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	75	100	131.0	1489	478.16	IE3	-	95	95	94	0.87	0.84	0.75	6.4	2.3	2.7
Motor	tyne				TCA				Deg	ree of	protecti	n				IP 55		
Enclosu					TEFC					unting		011				IM B35		
	Materia	1			Cast Irc					ling me						IC 411		
Frame		•			2805						ght - ap	arox				732		kg
Duty	SILC										sht - app					767		kg
	e variatio	on *			± 10%					tor ine						2.2302		kgm ²
	ncy varia				± 5%					d inerti					Cust	omer to Pro	ovide	
•	ned varia				10%				Vib	ration I	evel					2.2		mm/s
Design					Ν				Noi	se leve	(1mete	er distai	nce fror	n motoi	-)	68		dB(A)
Service	factor				1.0				No.	of star	ts hot/c	old/Equ	ally spr	ead		2/3/4		. ,
Insulati	on class				F					rting m			, ,			DOL		
Ambier	nt tempe	erature			-20 to +	40		°C	Тур	e of co	upling					Direct		
Temper	rature ri	ise (by i	resistance	e)	80 [Class	5 B]		К	LR	vithsta	nd time	(hot/co	ld)			15/30		S
Altitude	e above	sea lev	el		1000			meter	Dire	ection o	of rotatio	on			В	i-directiona	al	
Hazard	ous area	a classif	ication		NA				Star	ndard r	otation				Clo	ckwise form	n DE	
	Zone cla	assifica	tion		NA				Pair	nt shad	e					RAL 5014		
	Gas gro	up			NA				Acc	essorie	S							
	Temper	rature o	lass		NA					Ace	cessory -	1				PTC 150°C		
Rotor t	уре			Alı	uminum D	ie cast				Ace	cessory -	2				-		
Bearing	g type			A	nti-frictio	n ball				Ace	cessory -	3				-		
DE / NE	DE beari	ng		633	17 C3/6	317 C3			Ter	minal b	ox posit	ion				RHS		
Lubrica	tion me	thod			Regreasa	ble			Ma	ximum	cable siz	e/cond	uit size	1R	x 3C x 9	95mm²/2 x	M50 x 1.5	
Type of	fgrease		C	HEVRC	ON SRI-2 o	r Equiva	ent		Aux	iliary te	erminal	оох				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 --_



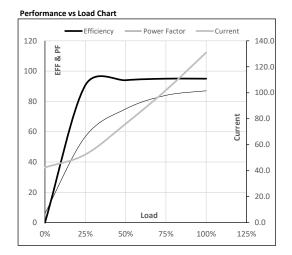


Model No. TCA0752A1133GAC010

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	400	Δ	50	75	100.0	131.0	1489	48.76	478.16	IE3	40	S1	1000	2.2302	732

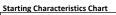
Motor Load Data

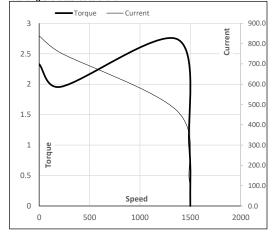
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	42.5	52.4	76.1	102.0	131.0	
Torque	Nm	0.0	118.9	238.2	357.9	478.2	
Speed	r/min	1500	1497	1495	1492	1489	
Efficiency	%	0.0	90.6	94.0	95.0	95.0	
Power Factor	%	6.1	56.7	75.0	84.0	87.0	



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	214	1370	1489	1500	
Current	А	838.3	754.4	468.2	131.0	42.5	
Torque	pu	2.3	2.0	2.7	1	0	





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

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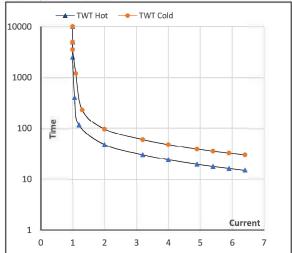
Model No. TCA0752A1133GAC010

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	75	100.0	131.0	1489	48.76	478.16	IE3	40	S1	1000	2.2302	732
1		_													

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	۱ ₅	LR
TWT Hot	s	10000	48	33	24	18	16	15
TWT Cold	s	10000	96	70	48	38	34	30
Current	pu	1	2	3	4	5	5.5	6.4

Thermal Characteristics Chart



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

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