PRODUCT INFORMATION PACKET

Model No: TCA3552A1133GAC010 Catalog No: TCA3552A1133GAC010 TerraMAX® Cast Iron Motor, 475 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 355L Frame, TEFC



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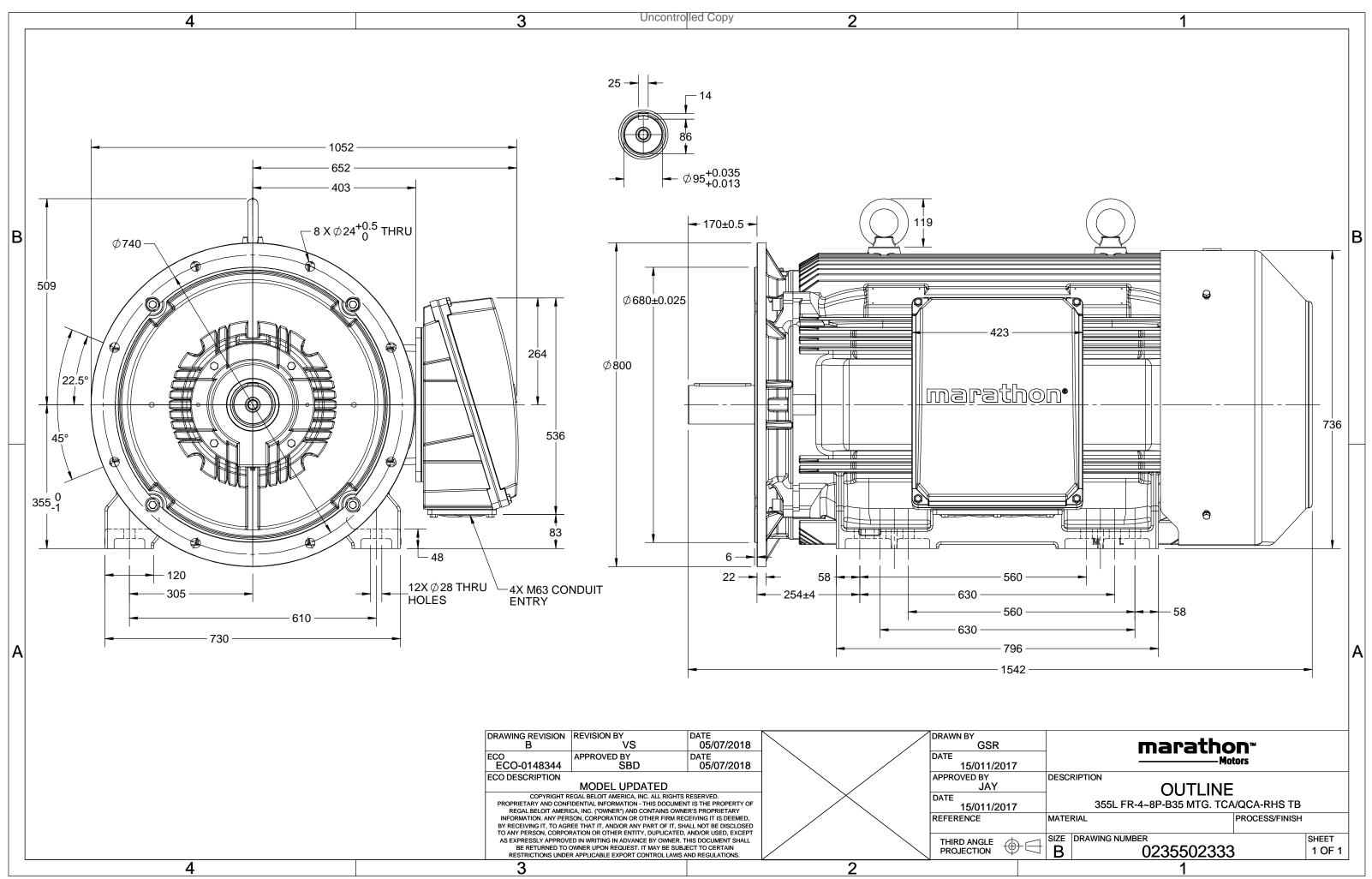
Nameplate Specifications

Output HP	475 Hp	Output KW	355.0 kW		
Frequency	50 Hz	Voltage	400 V		
Current	526.2 A	Speed	1489 rpm		
Service Factor	1	Phase	3		
Efficiency	96 %	Power Factor	0.9		
Duty	S1	Insulation Class	F		
Frame	355L	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Ambient Temperature	40 °C		
Drive End Bearing Size	6322	Opp Drive End Bearing Size	6322		
UL	Νο	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	СЗ	Opp Drive End Bearing	С3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1542 mm	Frame Length	1010 mm
Shaft Diameter	95 mm	Shaft Extension	170 mm
Assembly/Box Mounting	R Side		
Outline Drawing	0235502333	Connection Drawing	8442000085

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U Δ / Y f	P F	р I	n	Т	IE	%	6 EFF at	loa	ł	PF	at lo	ad	I _A /I _N	T_A/T_N	$T_{\rm K}/T_{\rm N}$
(V) Conn [Hz] [kW] [h	p] [A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
400 Δ 50 S	355 47	75 593.1	1490	2269.8	IE3	-	96	96	96.2	0.9	0.88	0.83	6.9	2.1	2.5
Motor type		TCA				Deg	ree of p	protecti	on				IP 55		
Enclosure		TEFC				Μοι	unting t	уре					IM B35		
Frame Material		Cast Irc	n			Coo	ling me	thod					IC 411		
Frame size		355L				Mot	or weig	ght - ap	prox.				2012		kg
Duty		S1				Gro	ss weig	ht - app	rox.				2057		kg
Voltage variation *		± 10%				Mot	or iner	nertia				10.9453			kgm ²
Frequency variation *		± 5%				Load	d inertia	а				Custo	omer to Prov	vide	
Combined variation *	ined variation * 10%					Vibr	ation le	evel					2.8		mm/s
Design		Ν				Nois	se level	(1met	er dista	nce fror	n motor	.)	82		dB(A)
Service factor		1.0				No.	of start	s hot/c	old/Equ	ally spr	ead		2/3/4		
Insulation class		F				Star	ting me	ethod					DOL		
Ambient temperature		-20 to +	40		°C	Тур	e of cou	upling					Direct		
Temperature rise (by res	istance)	80 [Class	в]		К	LR v	vithstar	nd time	(hot/co	ld)			15/30		S
Altitude above sea level		1000			meter	Dire	ction o	f rotatio	on			В	i-directional		
Hazardous area classifica	ation	NA				Star	ndard ro	otation				Cloc	kwise form	DE	
Zone classificatio	n	NA				Pair	nt shade	2					RAL 5014		
Gas group		NA				Acce	essories	5							
Temperature clas	SS	NA					Acc	essory ·	- 1				PTC 150°C		
Rotor type		Aluminum D	ie cast				Acc	essory ·	- 2				-		
Bearing type		Anti-frictio	n ball				Acc	essory ·	- 3				-		
DE / NDE bearing		6322 C3/63	322 C3			Terr	ninal b	ox posit	ion				RHS		
Lubrication method		Regreasa	ble			Max	(imum (cable si	ze/cond	luit size	1R	x 3C x 3	00mm²/4 x l	VI63 x 1.5	
Type of grease	CHE	VRON SRI-2 o	r Equival	ent		Aux	iliary te	rminal	box				NA		
							-								

 I_A/I_N - Locked Rotor Current / Rated Current

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

 T_A/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

 $\ensuremath{^*}$ 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
 GB 18613-2012 Grade 2
 IEC: 60034-30

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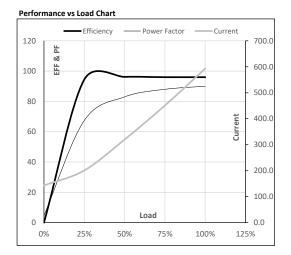


Model No. TCA3552A1133GAC010

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	355	475.0	593.1	1490	231.46	2269.81	IE3	40	S1	1000	10.9453	2012

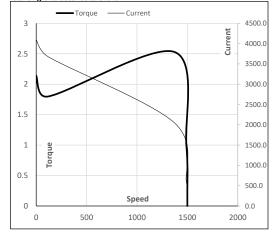
Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	143.1	200.9	319.9	450.9	593.1	
Torque	Nm	0.0	564.6	1131.0	1699.3	2269.8	
Speed	r/min	1500	1498	1495	1493	1490	
Efficiency	%	0.0	94.4	96.2	96.0	96.0	
Power Factor	%	4.7	67.4	83.0	88.0	90.0	



Motor Spee	d Torque Dat	a					
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	115	1371	1490	1500	
Current	А	4092.0	3682.8	2050.9	593.1	143.1	
Torque	pu	2.1	1.8	2.5	1	0	





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

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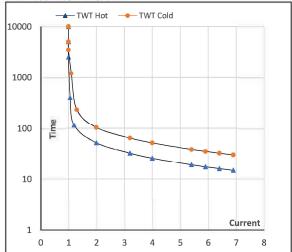
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Enclosure	U	Δ/Υ	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	355	475.0	593.1	1490	231.46	2269.81	IE3	40	S1	1000	10.9453	2012

Motor Speed Torque Data

Load	-	FL	I_1	l ₂	l ₃	I_4	۱ ₅	LR
TWT Hot	s	10000	52	34	26	22	18	15
TWT Cold	s	10000	104	67	52	41	37	30
Current	pu	1	2	3	4	5	5.5	6.9

Thermal Characteristics Chart



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

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