PRODUCT INFORMATION PACKET

Model No: TCA1323A3131GACD01 Catalog No: TCA1323A3131GACD01 TerraMAX® Cast Iron Motor, 175 HP, 3 Ph, 50 Hz, 415 V, 315L Frame



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marathon® Motors





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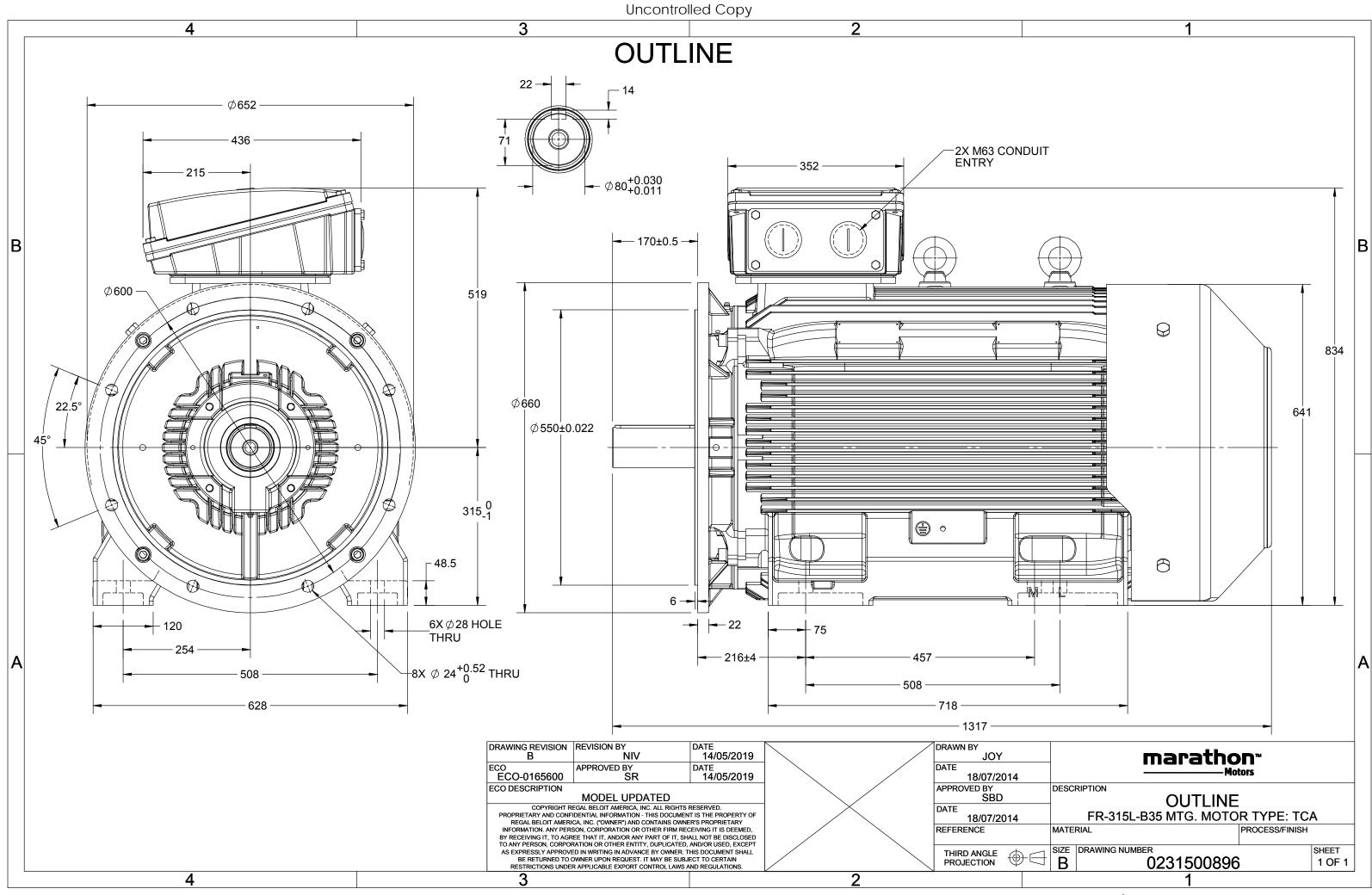
Nameplate Specifications

Phase	3	Output HP	175 Нр
Output KW	132.0 kW	Voltage	415 V
Speed	991 r/min	Service Factor	1
Frame	315L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	95.4 %
Ambient Temperature	50 °C	Frequency	50 Hz
Current	234.8 A	Power Factor	0.82
Duty	S1	Insulation Class	F
Drive End Bearing Size	6319	Opp Drive End Bearing Size	6319
UL	No	CSA	No
CE	Yes	IP Code	55
Number of Speeds	1	Efficiency Class	IE3

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	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	1317 mm	Frame Length	840 mm
Shaft Diameter	80 mm	Shaft Extension	170 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0231500896	Connection Drawing	8442000085

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U	Δ / Y	f	Р	Р	1	n	т	IE		% EFF at	load		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 -		1/2FL	FL		1/2FL	[pq]	[pu]	[pu]
415	Δ	50	132	175	234.8	991	1257.94	IE3	-	95.4	95.4	95.2	0.82	0.78	0.68	5.7	2.0	2.4
								Ļ	Į									
Motor	type				TCA					Degree of	protect	ion				IP 55		
Enclosu					TEFC					Vounting						IM B35		
Frame	Materia	I			Cast Iro	on				Cooling m						IC 411		
Frame	size								1122		kg							
Duty					S1				Gross weight - approx.					1167		kg		
Voltage	e variatio	on *			± 10%	5				Motor inertia				5.6049			kgm ²	
Freque	ncy varia	ation *			± 5%				1	.oad inert	ia				Custo	omer to Provid	de	-
Combir	mbined variation * 10%				Ň	/ibration	level					2.8		mm/s				
Design					Ν					Noise leve	l (1met	er dista	nce fror	n motor	.)	66		dB(A)
Service	factor				1.0				1	No. of star	rts hot/c	cold/Equ	ally spr	ead		2/3/4		
Insulati	on class				F					Starting method			DOL					
Ambier	nt tempe	erature			-20 to +	50		°C	-	Type of co	upling					Direct		
Tempe	rature ri	se (by i	resistand	ce)	70 [Class	5 B]		к		R withsta	nd time	(hot/co	/cold)			15/30		S
Altitud	e above	sea lev	el		1000			meter	I	Direction	of rotati	on			В	i-directional		
Hazard	ous area	a classif	ication		NA				9	Standard r	otation				Cloc	kwise form D	E	
	Zone cla	assifica	tion		NA					Paint shad	le					RAL 5014		
	Gas gro	up			NA					Accessorie	es							
	Temper	rature o	lass		NA					Ac	cessory	- 1				-		
Rotor t	ype			Al	uminum D	Die cast				Ac	cessory	- 2				-		
Bearing	g type			Anti-	friction ba	II bearing				Ac	cessory	- 3				-		
DE / NE	DE bearii	ng		63	19 C3/6	319 C3			-	Ferminal b	oox posi	tion				TOP		
Lubrica	tion me	thod			Regrease	able			I	Maximum cable size/conduit size 1R x 3C x 2					x 3C x 2	40mm²/2 x M	63 x 1.5	
Type of	grease		Sh	ell Gadu	us S5 V100) or Equiv	alent		,	Auxiliary t	erminal	box				NA		

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

 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

* 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	-	-	-



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

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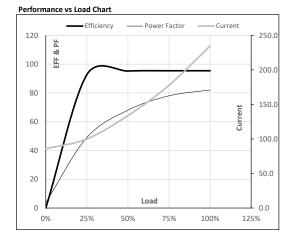


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Enclosure	U	Δ / Y	f	Р	Р	1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	415	Δ	50	132	175.0	234.8	991	128.27	1257.94	IE3	50	S1	1000	5.6049	1122

Motor Load Data

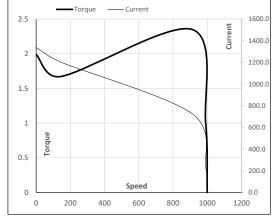
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	85.8	100.1	133.8	177.7	234.8	
Torque	Nm	0.0	312.3	626.0	941.1	1257.9	
Speed	r/min	1000	998	996	993	991	
Efficiency	%	0.0	92.7	95.2	95.4	95.4	
Power Factor	%	3.8	49.0	68.0	78.0	82.0	



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	143	912	991	1000	
Current	А	1338.1	1204.3	727.3	234.8	85.8	
Torque	pu	2.0	1.7	2.4	1	0	

Starting Characteristics Chart



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

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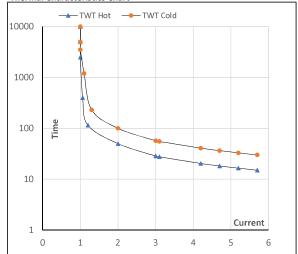
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Enclosure	U	Δ / Y	f	Р	Ρ	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	415	Δ	50	132	175	234.8	991	128.18	1257.94	IE3	50	S1	1000	5.6049	1122

Motor Speed Torque Data

wotor speed	a rorq	ue Data						
Load		FL	I_1	I_2	I_3	I_4	I ₅	LR
TWT Hot	s	10000	50	29	25	17	16	15
TWT Cold	s	10000	100	57	50	35	31	30
Current	pu	1	2	3	4	5	5.5	5.7

Thermal Characteristics Chart



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

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