PRODUCT INFORMATION PACKET

Model No: TCA1324A3133GACD01 Catalog No: TCA1324A3133GACD01 TerraMAX® Cast Iron Motor, 175 HP, 3 Ph, 50 Hz, 415 V, 355M Frame



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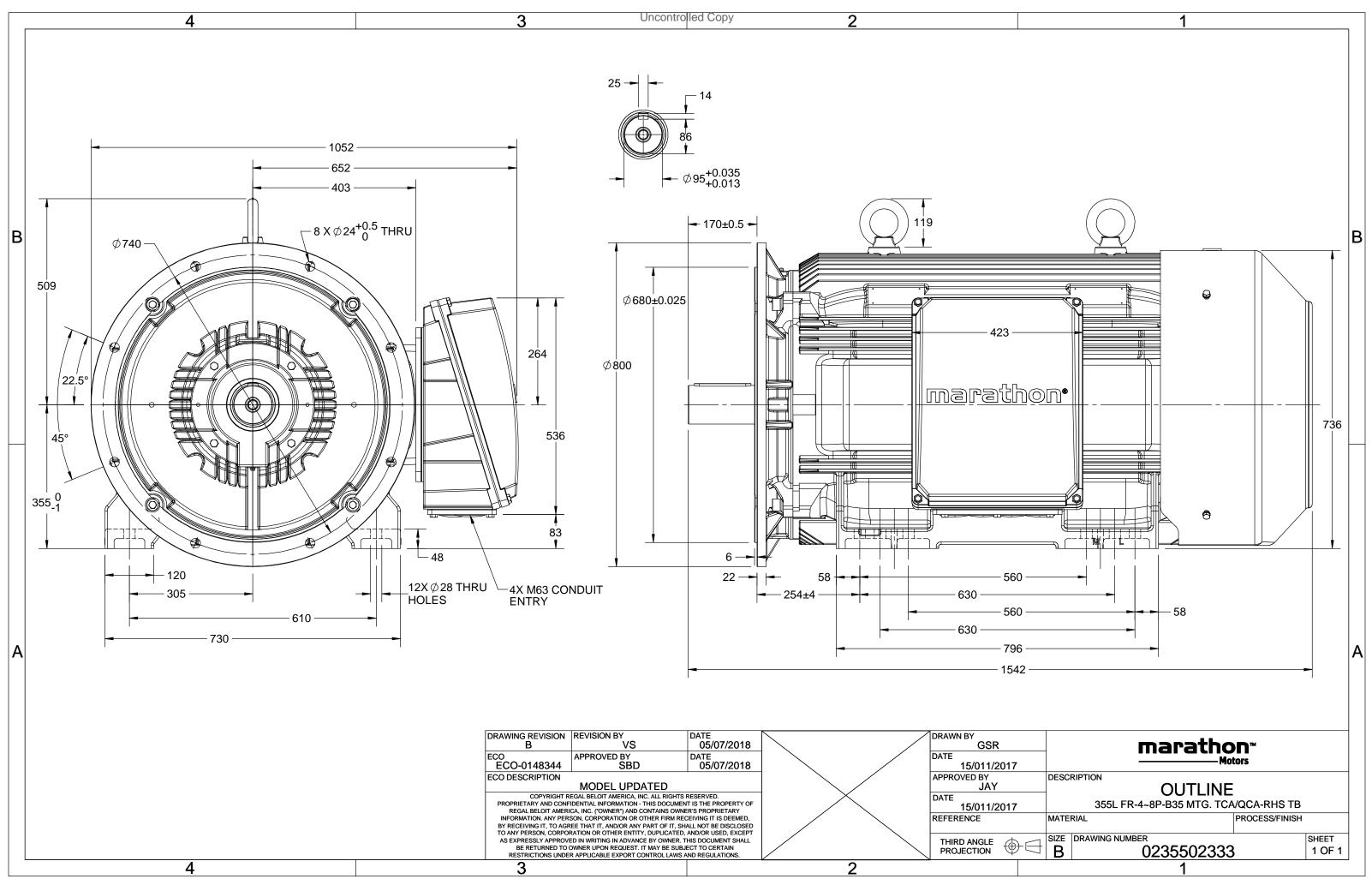
Nameplate Specifications

Phase	3	Output HP	175 Нр
Output KW	132.0 kW	Voltage	415 V
Speed	742 r/min	Service Factor	1
Frame	355M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	94 %
Ambient Temperature	50 °C	Frequency	50 Hz
Current	238.3 A	Power Factor	0.82
Duty	S1	Insulation Class	F
Drive End Bearing Size	6322	Opp Drive End Bearing Size	6322
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	8	Rotation	Bi-Directional
Mounting	B35	Motor Orientation	Horizontal
Drive End Bearing	С3	Opp Drive End Bearing	СЗ
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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RHS 1R x 3C x 300mm²/4 x M63 x 1.5

NA

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U	Δ / Y	f	Р	Р	I	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	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
415	Δ	50	132	175	238.2	742	1679.33	IE3	-	94	94	94.5	0.82	0.79	0.69	6.1	1.5	2.5
Motor	type				TCA				[Degree of	protect	ion				IP 55		
Enclos	ure				TEFC				r	Mounting	type					IM B35		
Frame	Materia	l			Cast Iro	on			Cooling method						IC 411			
Frame	size				355N	1			Motor weight - approx.					1676		kg		
Duty					S1				Gross weight - approx.					1721		kg		
Voltag	e variatio	on *			± 10%	6			r	Motor inertia						8.9257		kgm ²
Freque	ency vari	ation *			± 5%				L	Load inert	ia				Custo	omer to Prov	ide	
Combi	ned varia	ation *			10%				١	Vibration	level					2.8		mm/s
Design					N				r	Noise leve	el (1met	er distai	nce fror	n motor	r) 65			dB(A)
Service	e factor				1.0				r	No. of star	rts hot/c	old/Equ	ally spr	ead		2/3/4		
Insulat	ion class				F				9	Starting m	ethod					DOL		
Ambie	nt tempe	erature			-20 to +	-50		°C	٦	Type of co	upling					Direct		
Tempe	erature ri	se (by i	resistanc	ce)	70 [Class	s B]		К	L	LR withsta	ind time	(hot/co	ld)			15/30		s
Altituc	le above	sea lev	el		1000			meter	[Direction of rotation					В	Bi-directional		
Hazaro	lous area	a classif	ication		NA				9	Standard r	rotation				Cloc	kwise form I	DE	
	Zone cl	assifica	tion		NA				F	Paint shad	le					RAL 5014		
	Gas gro	up			NA				1	Accessorie	es							
	Temper	ature o	lass		NA					Ac	cessory	- 1				-		

 DE / NDE bearing
 6322 C3 / 6322 C3

 Lubrication method
 Regreasable

 Type of grease
 Shell Gadus S5 V100 or Equivalent

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

Accessory - 2

Accessory - 3

Maximum cable size/conduit size

Terminal box position

Auxiliary terminal box

 I_A/I_N - Locked Rotor Current / Rated Current

 $T_{\rm A}/T_{\rm N}$ - Locked Rotor Torque / Rated Torque

NOTE

Rotor type

Bearing type

All performance values at rated voltage and frequency.

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

Aluminum die cast

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.

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



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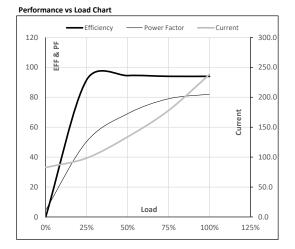


Model No. TCA1324A3133GACD01

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	132	175	238.2	742	171.24	1679.33	IE3	50	S1	1000	8.9257	1676

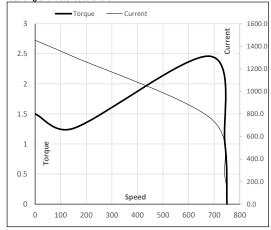
Motor Load Data

	NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Α	82.7	98.4	133.8	177.9	238.2	
Nm	0.0	416.6	835.2	1256.0	1679.3	
r/min	750	748	746	745	742	
%	0.0	91.6	94.5	94.0	94.0	
%	4.6	50.4	69.0	79.0	82.0	
	Nm r/min %	A 82.7 Nm 0.0 r/min 750 % 0.0	A 82.7 98.4 Nm 0.0 416.6 r/min 750 748 % 0.0 91.6	A 82.7 98.4 133.8 Nm 0.0 416.6 835.2 r/min 750 748 746 % 0.0 91.6 94.5	A 82.7 98.4 133.8 177.9 Nm 0.0 416.6 835.2 1256.0 r/min 750 748 746 745 % 0.0 91.6 94.5 94.0	A 82.7 98.4 133.8 177.9 238.2 Nm 0.0 416.6 835.2 1256.0 1679.3 r/min 750 748 746 745 742 % 0.0 91.6 94.5 94.0 94.0



Motor Spee	Motor Speed Torque Data												
Load Point		LR	P-Up	BD	Rated	NL							
Speed	r/min	0	150	683	742	750							
Current	А	1453.3	1308.0	767.6	238.2	82.7							
Torque	pu	1.5	1.3	2.5	1	0							
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NOTE Refer data sheet for applicable standard and tolerances on performance parameters

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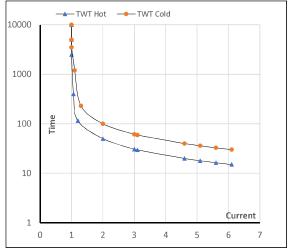
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Enclosure	U	Δ / Y	f	Р	Ρ	1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	415	Δ	50	132	175	238.2	742	171.12	1679.33	IE3	50	S1	1000	8.9257	1676
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Motor Speed Torque Data

Load		FL	I_1	I_2	l ₃	I_4	l ₅	LR
TWT Hot	S	10000	50	31	25	18	17	15
TWT Cold	s	10000	100	61	50	37	34	30
Current	pu	1	2	3	4	5	5.5	6.1

Thermal Characteristics Chart



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

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