PRODUCT INFORMATION PACKET



Model No: TCA1101A1133GAC010 Catalog No: TCA1101A1133GAC010

TerraMAX® Cast Iron Motor, 150 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 315S Frame, TEFC





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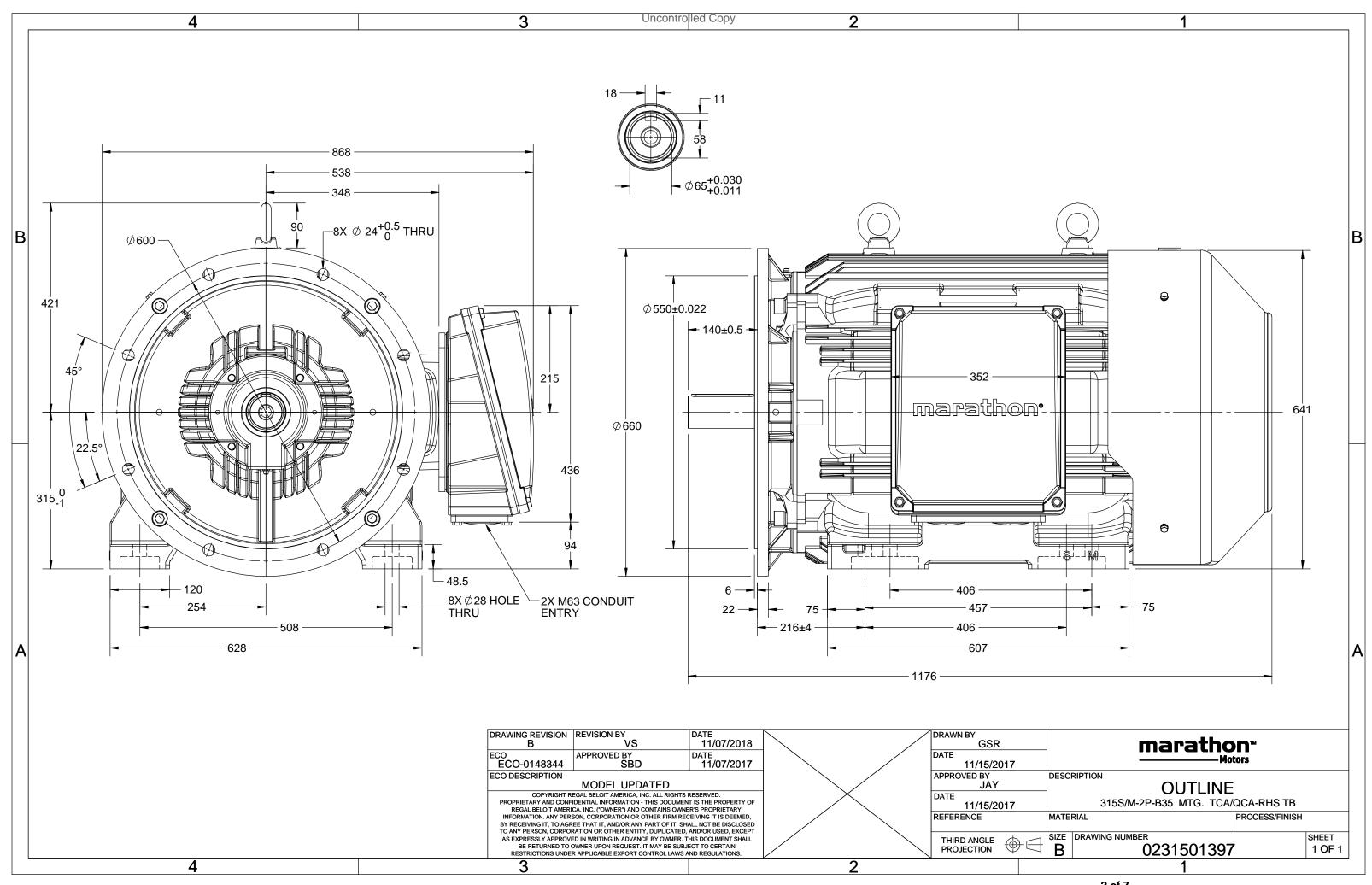
Nameplate Specifications

Output HP	150 Hp	Output KW	110.0 kW
Frequency	50 Hz	Voltage	400 V
Current	189.5 A	Speed	2983 rpm
Service Factor	1	Phase	3
Efficiency	95.2 %	Power Factor	0.88
Duty	S1	Insulation Class	F
Frame	315S	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6316	Opp Drive End Bearing Size	6316
		2 F F - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2 - 111 - 2	
UL	No	CSA	No
UL CE		-	

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	Rotation	Bi-Directional
Mounting	B35	Motor Orientation	Horizontal
Drive End Bearing	С3	Opp Drive End Bearing	С3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1176 mm	Frame Length	729 mm
Shaft Diameter	65 mm	Shaft Extension	140 mm
Assembly/Box Mounting	R Side		
Outline Drawing	0231501397	Connection Drawing	8442000085

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DRAWING REVISION	REVISION BY	DATE
Α	SN	13/01/2017
ECO	APPROVED BY	DATE
ECO-0116390	SBD	13/01/2017
ECO DESCRIPTION		

NEW DRAWING RELEASE

GEOMENTRIC TOLERANCE									
	>0~6	±0.1							
LINEAR DIM	>6~30	±0.2							
	>30~120	±0.3							



NOTES:

- 1.
- 2.
- PRESSURE-SENSITIVE ADHESIVE COATED PAPER ON THE BACK OF SELF-ADHESIVE. AT THE END OF YELLOW, WORDS, SYMBOLS, LETTERS ARE BLACK, BORDER IS BLACK. THE TOLERANCE OF THE LINEAR SIZE OF THE TOLERANCE WITHOUT THE TOLERANCE 3. BY THE TABLE.

8WD.442.2017







Model No. TCA1101A1133GAC010

U	Δ/Υ	f	Р	Р	I	n	T	IE	9	6 EFF a	t load	t	PF	at lo	ad	I_A/I_N	T _A /T _N	T _K /T _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	110	150	189.5	2983	358.07	IE3	-	95.2	95.2	92.7	0.88	0.85	0.78	7.2	2.0	3.6

Motor type	TCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	315S	
Duty	S1	
Voltage variation *	± 10%	
Frequency variation *	± 5%	
Combined variation *	10%	
Design	N	
Service factor	1.0	
Insulation class	F	
Ambient temperature	-20 to +40	°C
Temperature rise (by resistan	ce) 80 [Class B]	K
Altitude above sea level	1000	meter
Hazardous area classification	NA	
Zone classification	NA	
Gas group	NA	
Temperature class	NA	
Rotor type	Aluminum Die cast	
Bearing type	Anti-friction ball	
DE / NDE bearing	6316 C3 / 6316 C3	
Lubrication method	Regreasable	
Type of grease	CHEVRON SRI-2 or Equivalent	

Degree of protection	IP 55	
Mounting type	IM B35	
Cooling method	IC 411	
Motor weight - approx.	998	kg
Gross weight - approx.	1043	kg
Motor inertia	2.2274	kgm ²
Load inertia	Customer to Provide	
Vibration level	2.8	mm/s
Noise level (1meter distance from mo	otor) 83	dB(A)
No. of starts hot/cold/Equally spread	2/3/4	
Starting method	DOL	
Type of coupling	Direct	
LR withstand time (hot/cold)	15/30	S
Direction of rotation	Bi-directional	
Standard rotation	Clockwise form DE	
Paint shade	RAL 5014	
Accessories		
Accessory - 1	PTC 150°C	
Accessory - 2	-	
Accessory - 3	-	
Terminal box position	RHS	
Maximum cable size/conduit size	1R x 3C x 240mm ² /2 x M63 x 1.5	
Auxiliary terminal box	NA	

 I_A/I_N - Locked Rotor Current / Rated Current

 T_A/T_N - Locked Rotor Torque / Rated Torque

 T_K/T_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

 $\ensuremath{^{*}}$ 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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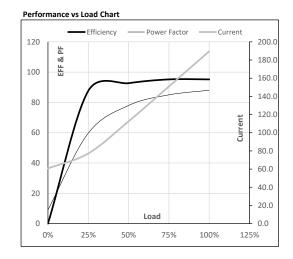




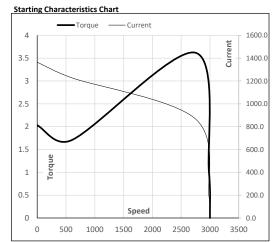
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Enclosure	U	Δ/Υ	f	Р	Р	I	n	T	T	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	110	150.0	189.5	2983	36.51	358.07	IE3	40	S1	1000	2.2274	998

Motor Load Da	ata						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	60.7	77.2	112.5	150.9	189.5	
Torque	Nm	0.0	89.1	178.5	268.2	358.1	
Speed	r/min	3000	2996	2992	2987	2983	
Efficiency	%	0.0	87.6	92.7	95.2	95.2	
Power Factor	%	9.1	59.7	78.0	85.0	88.0	



Motor Speed	l Torque Da	ta				
Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	600	2744	2983	3000
Current	Α	1364.5	1228.1	869.8	189.5	60.7
Torque	nu	2.0	1.7	3.6	1	0



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

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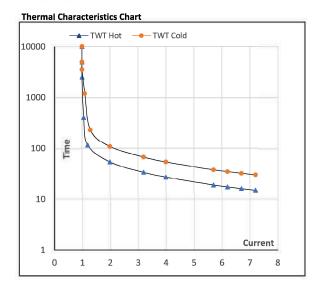




Model No. TCA1101A1133GAC010

Enclosure	U	Δ/Υ	f	Р	Р	ı	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	110	150.0	189.5	2983	36.51	358.07	IE3	40	S1	1000	2.2274	998

Motor Speed Torque Data Load FL LR s 10000 39 22 15 TWT Hot 27 TWT Cold s 10000 108 80 50 40 30 Current 5 5.5 7.2 pu



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

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