PRODUCT INFORMATION PACKET

marathon°

Model No: TCA0554A1133GAC010 Catalog No: TCA0554A1133GAC010 TerraMAX® Cast Iron Motor, 75 HP, 3 Ph, 50 Hz, 400 V, 750 RPM, 315S Frame, TEFC



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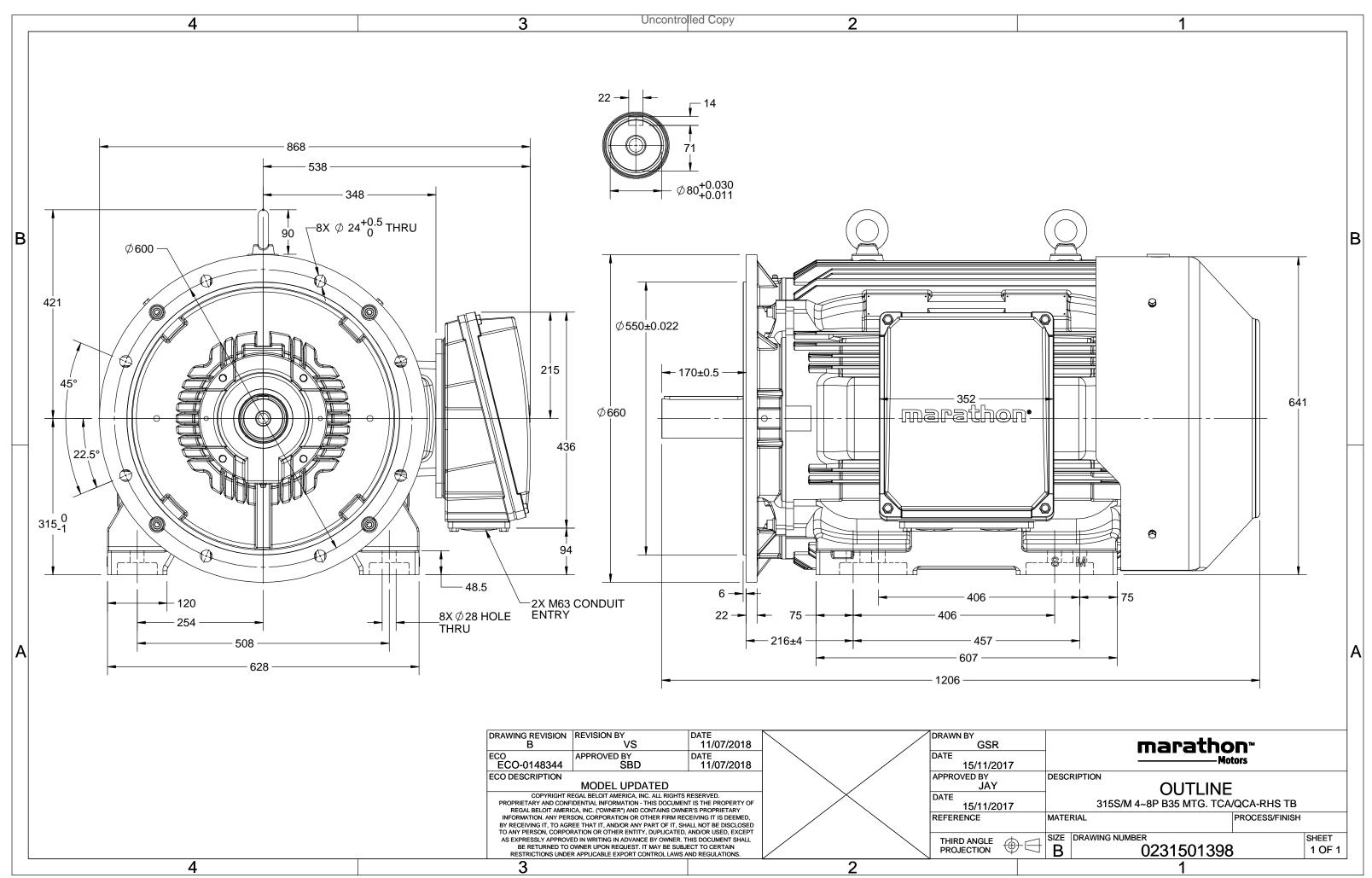
Nameplate Specifications

Phase	3	Output HP	75 Hp
Output KW	55.0 kW	Voltage	400 V
Speed	742 r/min	Service Factor	1
Frame	315S	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	92.5 %
Ambient Temperature	40 °C	Frequency	50 Hz
Current	119.2 A	Power Factor	0.72
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
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	СЗ	Opp Drive End Bearing	СЗ
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1206 mm	Frame Length	729 mm
Shaft Diameter	80 mm	Shaft Extension	170 mm
Assembly/Box Mounting	R Side		
Connection Drawing	8442000085	Outline Drawing	0231501398

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TerraMAX[®]

Model No. TCA0554A1133GAC010

/T _N T _K /T _N
u] [pu]
.8 2.1
kg
kg
kgm ²
mm/s
dB(A)
S
1.5
x

 $I_{\text{A}}/I_{\text{N}}$ - 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.

Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	-	GB 18613-2012 Grade 2	-	-	-	IEC: 60034-30



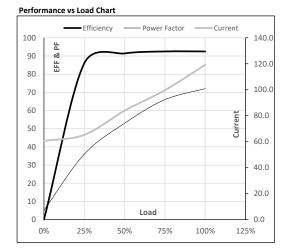


Model No. TCA0554A1133GAC010

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	55	75.0	119.2	742	73.42	719.98	IE3	40	S1	1000	3.7895	910

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	60.7	65.3	83.9	99.7	119.2	
Torque	Nm	0.0	178.7	358.1	538.5	720.0	
Speed	r/min	750	748	746	745	742	
Efficiency	%	0.0	86.0	91.4	92.5	92.5	
Power Factor	%	5.2	36.0	53.0	66.0	72.0	



Motor Spee	d Torque Data	a				
Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	150	683	742	750
Current	А	560.2	504.2	298.1	119.2	60.7

1.5

2.1

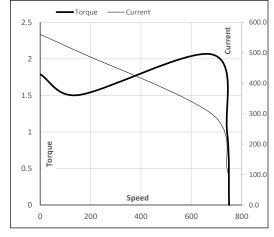
1

0

1.8

pu





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

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Torque

REGAL





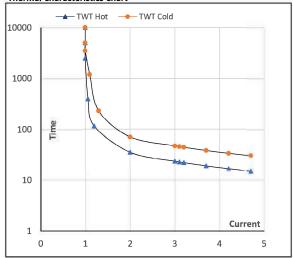
Model No. TCA0554A1133GAC010

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	55	75.0	119.2	742	73.42	719.98	IE3	40	S1	1000	3.7895	910
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Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	۱ ₅	LR
TWT Hot	S	10000	35	24	21	18	16	15
TWT Cold	S	10000	71	47	41	36	32	30
Current	pu	1	2	3	3.5	4	4.5	4.7

Thermal Characteristics Chart



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

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