PRODUCT INFORMATION PACKET



Model No: TCN1504A1133GAC010 Catalog No: TCN1504A1133GAC010

TerraMAX® Cast Iron Motor, 200 HP, 3 Ph, 50 Hz, 400 V, 750 RPM, 355M Frame, TEFC



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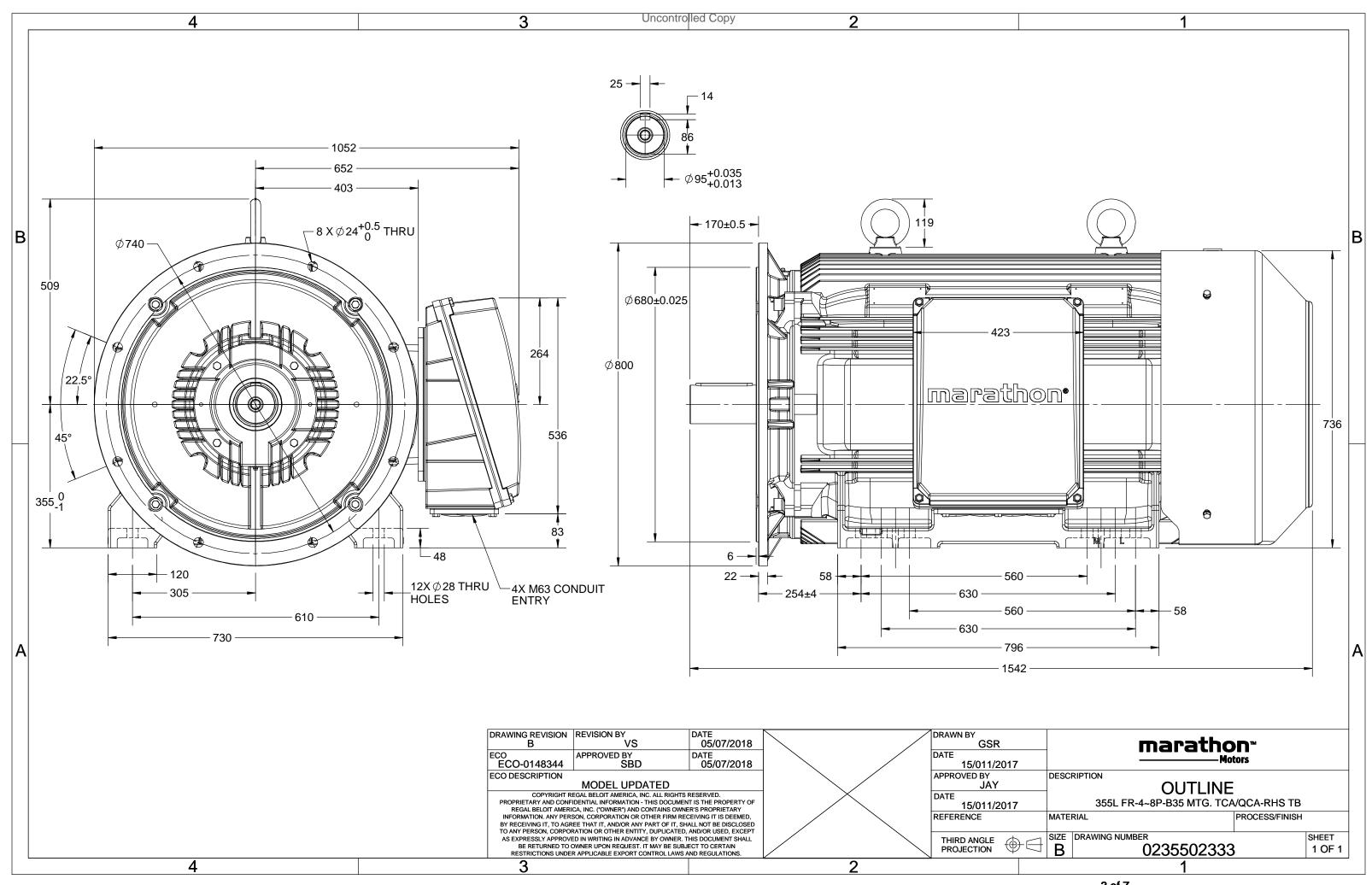
Nameplate Specifications

Output HP	200 Hp	Output KW	150.0 kW
Frequency	50 Hz	Voltage	400 V
Current	280.3 A	Speed	742 rpm
Service Factor	1	Phase	3
Efficiency	94.2 %	Power Factor	0.82
Duty	S1	Insulation Class	F
Frame	355M	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	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	СЗ	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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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

GEOM	ENTRIC TOLE	RANCE
	>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.

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Model No. TCN1504A1133GAC010

U	Δ/Υ	f	Р	Р	ı	n	Т	IE		% EFF	at loa	d	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	150	200	280.3	742	1919.75	IE3	-	94.2	94.2	94.7	0.82	0.79	0.7	6	1.5	2.4

Motor type	TCN	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	355M	
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	Ex nA	
Zone classification	Zone 2	
Gas group	IIC	
Temperature class	Т3	
Rotor type	Aluminum die cast	
Bearing type	Anti-friction ball	
DE / NDE bearing	6322 C3 / 6322 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.	1765	kg
Gross weight - approx.	1810	kg
Motor inertia	9.9098	kgm²
Load inertia	Customer to Provide	
Vibration level	2.8	mm/s
Noise level (1meter distance from motor	or) 65	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 300mm ² /4 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

ATEX/IEC Ex certified as per IEC/EN 60079-0; IEC/EN 60079-15

All performance values at rated voltage and frequency.

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

Technical data are subject to change. There may be slight variations between calculated values in this datasheet and the motor nameplate figures.

Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	IEC:60034-30-1	-	-	GEMS 2019	-	IEC:60034-30-1

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 $[\]ensuremath{^{*}}$ Voltage, Frequency and combined variation are as per IEC60034-1



Efficiency

Power Factor



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%

0.0

4.4

(V) Conn [Hz] [kW] [hp] [A] [RPM] [kgm] [Nm] Class [°C] [m] [kg-m²]	Enclosure	U	Δ/Υ	f	Р	Р	1	n	T	Т	IE	Amb	Duty	Elevation	Inertia	Weight
TEFC 400 A 50 150 200 2803 742 195.76 1919.75 1F3 40 51 1000 9.9098		(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class			[m]	[kg-m ²]	[kg]
1-1-1 400 4 30 130 200 200.5 742 135.75 125 40 31 1000 3.3030	TEFC	400	Δ	50	150	200	280.3	742	195.76	1919.75	IE3	40	S1	1000	9.9098	1765

Motor Load Data Load Point NL 1/4FL 1/2FL 3/4FL FL 5/4FL Current 94.6 113.6 162.7 214.4 Α 280.3 Torque Nm 0.0 476.2 954.6 1435.7 1919.7 Speed r/min 750 748 746 744 742

92.1

51.5

94.7

70.0

94.2

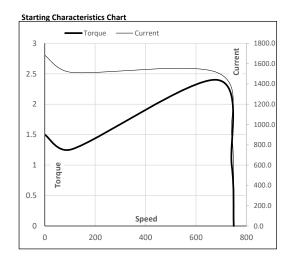
79.0

94.2

82.0

Performance vs Load Chart -Efficiency — Power Factor -Current 120 300.0 EFF & PF 100 250.0 200.0 80 Current 150.0 60 100.0 40 20 50.0 Load 0.0 0 75% 100% 125% 0% 25% 50%

Motor Speed	Torque Da	ta				
Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	107	683	742	750
Current	Α	1681.7	1513.6	887.6	280.3	94.6
Torque	pu	1.5	1.3	2.4	1	0



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

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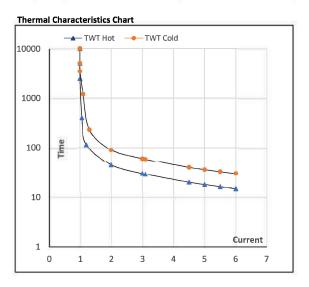




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1	Enclosure	U	Δ/Υ	f	Р	Р	- 1	n	Т	Т	ΙE	Amb	Duty	Elevation	Inertia	Weight
1		(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
ı	TEFC	400	Δ	50	150	200.0	280.3	742	195.76	1919.75	IE3	40	S1	1000	9.9098	1765
1																

Motor Spee	d Torg	ue Data						
Load		FL	l ₁	l ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	45	30	25	18	16	15
TWT Cold	s	10000	90	60	48	36	33	30
Current	pu	1	2	3	4	5	5.5	6



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

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