PRODUCT INFORMATION PACKET

marathon®

Model No: TCN0371A1133GAC010 Catalog No: TCN0371A1133GAC010

TerraMAX® Cast Iron Motor, 50 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 200L Frame, TEFC



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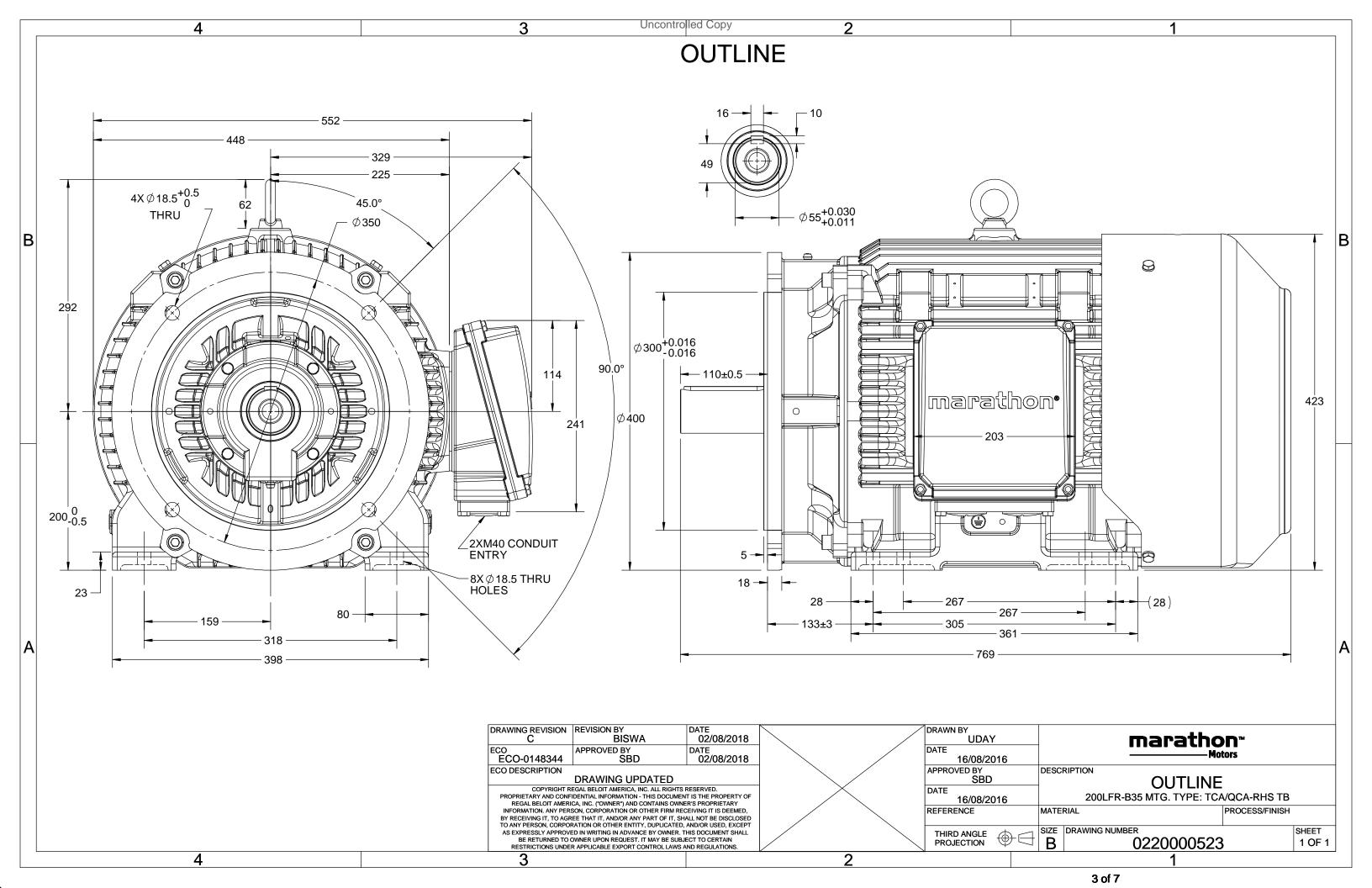
Nameplate Specifications

Phase	3	Output HP	50 Hp
Output KW	37.0 kW	Voltage	400 V
Speed	2974 r/min	Service Factor	1
Frame	200L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	93.7 %
Ambient Temperature	40 °C	Frequency	50 Hz
Current	66.3 A	Power Factor	0.86
Duty	S1	Insulation Class	F
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6212
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	2	Rotation	Bi-Directional	
Mounting	B35	Motor Orientation	Horizontal	
Drive End Bearing	C3	Opp Drive End Bearing	С3	
Frame Material	Cast Iron	Shaft Type	Keyed	
Overall Length	769 mm	Frame Length	370 mm	
Shaft Diameter	55 mm	Shaft Extension	110 mm	
Assembly/Box Mounting	R Side			
Outline Drawing	0220000523	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. TCN0371A1133GAC010

U	Δ/Υ	f	Р	Р	ı	n	T	IE		% EFF	at loa	d	PF	at lo	oad	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	37	50	66.3	2974	119.73	IE3	-	93.7	93.7	92.5	0.86	0.82	0.72	7.8	2.4	3.8

Motor type	TCN	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	200L	
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 resistance	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	6312 C3 / 6212 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.	307	kg
Gross weight - approx.	337	kg
Motor inertia	0.2934	kgm ²
Load inertia	Customer to Provide	
Vibration level	2.2	mm/s
Noise level (1meter distance from moto	or) 73	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 50mm ² /2 x M40 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

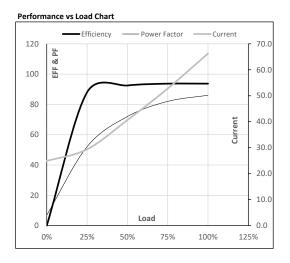




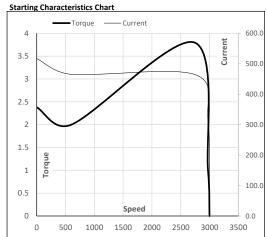
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	Enclosure	U	Δ / Y	f	Р	Р	1	n	T	T	IE	Amb	Duty	Elevation	Inertia	Weight
TEFC 400 Λ 50 37 50 66 3 2974 12 21 119 73 1F3 40 S1 1000 0.2934 30		(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class			[m]	[kg-m ²]	[kg]
100 2 00 07 00 000 2571 12121 12570 125 10 01 1000 012501	TEFC	400	Δ	50	37	50	66.3	2974	12.21	119.73	IE3	40	S1	1000	0.2934	307

Motor Load Data Load Point NL 1/4FL 1/2FL 3/4FL FL 5/4FL Current 24.9 29.4 40.6 52.8 66.3 Torque Nm 0.0 29.7 59.6 89.6 119.7 Speed r/min 3000 2993 2987 2981 2974 Efficiency % 0.0 88.0 92.5 93.7 93.7 Power Factor 6.9 52.1 72.0 82.0 86.0



Motor Speed	Torque Da	ta					
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	600	2736	2974	3000	
Current	Α	516.9	465.2	312.3	66.3	24.9	
Torque	nu	2.4	2.0	3.8	1	0	



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

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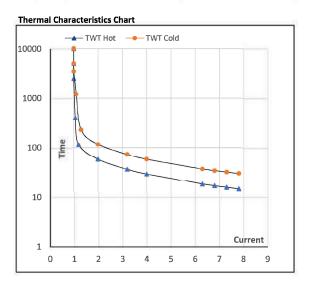




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Enclosure	U	Δ/Υ	f	Р	Р	1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	37	50.0	66.3	2974	12.21	119.73	IE3	40	S1	1000	0.2934	307

Motor Spee Load	u roig	FL	I ₁	l ₂	l ₂	I ₄	Ις	LR
TWT Hot	s	10000	59	40	30	25	22	15
TWT Cold	s	10000	117	80	59	45	40	30
Current	pu	1	2	3	4	5	5.5	7.8



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

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