PRODUCT INFORMATION PACKET

marathon®

Model No: TCN0111A1111GAC010
Catalog No: TCN0111A1111GAC010
TerraMAX® Cast Iron Motor, 15 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 160M Frame, TEFC



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Nameplate Specifications

Phase	3	Output HP	15 Hp
Output KW	11.0 kW	Voltage	400 V
Speed	2955 r/min	Service Factor	1
Frame	160M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	91.2 %
Ambient Temperature	40 °C	Frequency	50 Hz
Current	19.6 A	Power Factor	0.89
Duty	S1	Insulation Class	F
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6209
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	В3	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	622 mm	Frame Length	254 mm
Shaft Diameter	42 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0216000479

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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.

8WD.442.2017







Model No. TCN0111A1111GAC010

U	Δ/Υ	f	Р	Р	I	n	Т	IE	9	% 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	11	15	19.6	2955	36.15	IE3	-	91.2	91.2	89.7	0.89	0.84	0.75	7.9	2.3	3.7

Motor type	TCN	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	160M	
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)	80 [Class B]	k
Altitude above sea level	1000	meter
Hazardous area classification	Ex nA	
Zone classification	Zone 2	
Gas group	IIC	
Temperature class	T3	
Rotor type	Aluminum Die cast	
Bearing type	Anti-friction ball	
DE / NDE bearing	6309-2Z / 6209-2Z	
Lubrication method	Greased for life	
Type of grease	NA	

Degree of protection	IP 55	
Mounting type	IM B3	
Cooling method	IC 411	
Motor weight - approx.	135	kg
Gross weight - approx.	155	kg
Motor inertia	0.0626	kgm²
Load inertia	Customer to Provide	
Vibration level	2.2	mm/s
Noise level (1meter distance from mo	otor) 71	dB(A)
No. of starts hot/cold/Equally spread	2/3/4	
Starting method	DOL	
Type of coupling	Direct	
LR withstand time (hot/cold)	10/20	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	TOP	
Maximum cable size/conduit size	1R x 3C x 35mm ² /2 X M32 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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^{*} Voltage, Frequency and combined variation are as per IEC60034-1

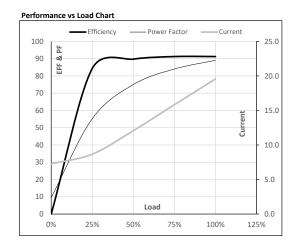




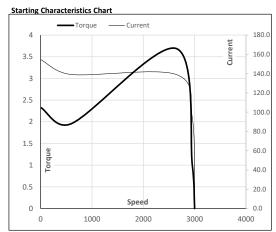
Model No. TCN0111A1111GAC010

	Δ/Υ		Р	Р	1	n	Т	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	11	15	19.6	2955	3.69	36.15	IE3	40	S1	1000	0.0626	135

Motor Load Data 5/4FL NL 1/4FL 1/2FL 3/4FL FL Load Point Current 7.3 8.7 12.1 15.8 19.6 8.9 Torque Nm 0.0 17.9 27.0 36.1 2978 3000 2989 2955 Speed r/min 2967 Efficiency % 0.0 84.3 89.7 91.2 91.2 Power Factor 9.5 55.2 75.0 84.0 89.0



Motor Speed Torque Data LR P-Up BD Rated NL Load Point 0 600 2641 2955 3000 Speed r/min Current Α 154.5 139.1 94.0 19.6 7.3 Torque pu



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

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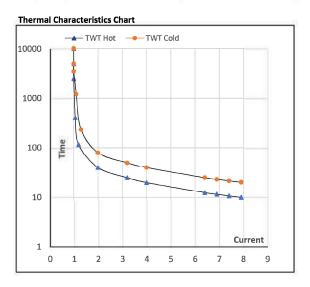




Model No. TCN0111A1111GAC010

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	11	15.0	19.6	2955	3.69	36.15	IE3	40	S1	1000	0.0626	135

Motor Spee	d Torg	ue Data						
Load		FL	l ₁	l ₂	l ₃	I_4	l ₅	LR
TWT Hot	s	10000	40	26	20	17	15	10
TWT Cold	s	10000	79	52	40	34	30	20
Current	pu	1	2	3	4	5	5.5	7.9



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

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