PRODUCT INFORMATION PACKET

marathon®

Model No: TCN0302A1121GAC010 Catalog No: TCN0302A1121GAC010

TerraMAX® Cast Iron Motor, 40 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 200L Frame, TEFC



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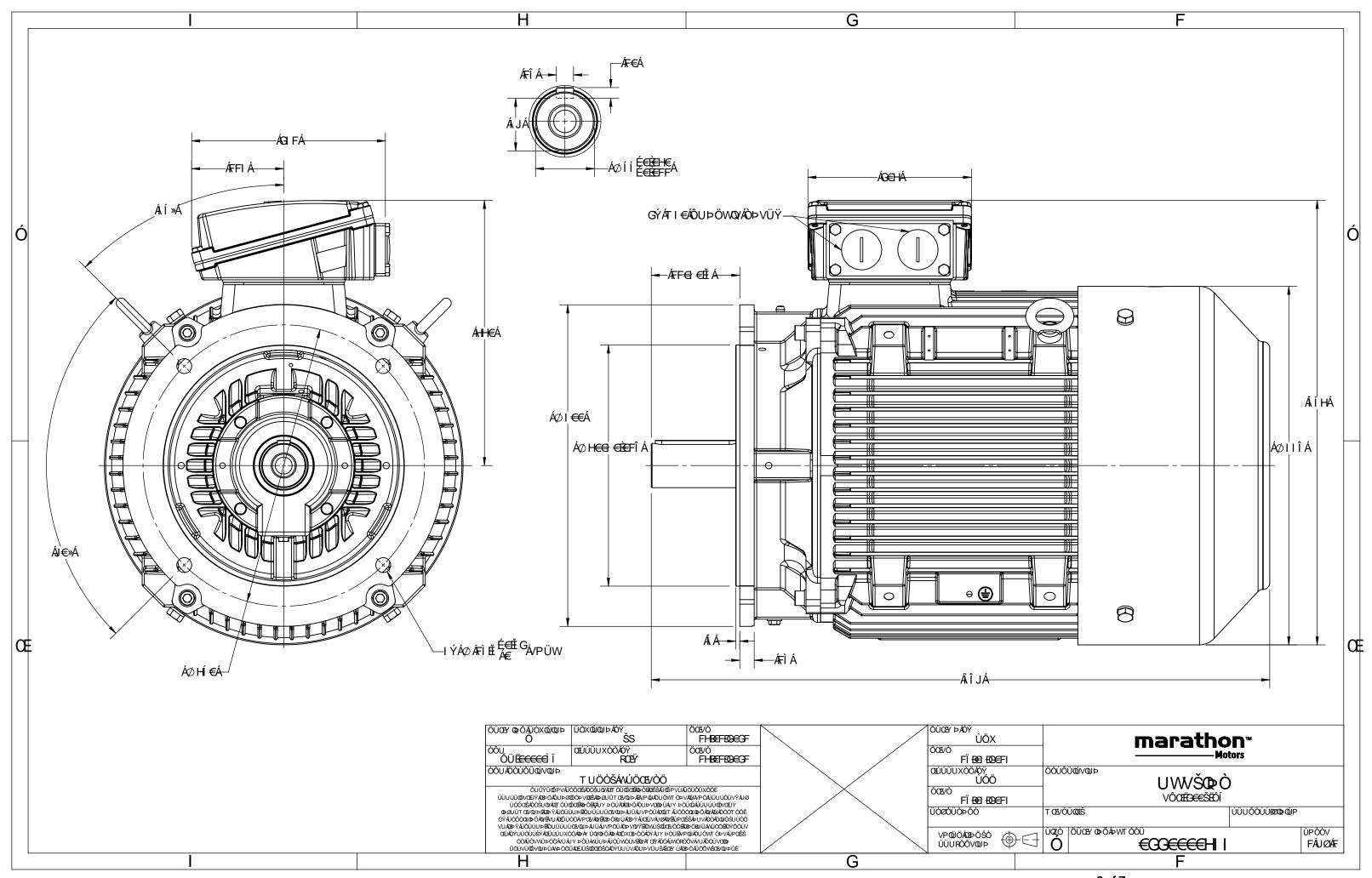
Nameplate Specifications

Phase	3	Output HP	40 Hp
Output KW	30.0 kW	Voltage	400 V
Speed	1479 r/min	Service Factor	1
Frame	200L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	93.6 %
Ambient Temperature	40 °C	Frequency	50 Hz
Current	54.4 A	Power Factor	0.85
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	4	Rotation	Bi-Directional
Mounting	B5	Motor Orientation	Horizontal
Drive End Bearing	СЗ	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	Тор		
Connection Drawing	8442000085	Outline Drawing	0220000344

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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. TCN0302A1121GAC010

U	Δ/Υ	f	Р	Р	1	n	Т	IE		% EFF a	nt load	i	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	30	40	54.4	1479	192.65	IE3	-	93.6	93.6	93.6	0.85	0.82	0.72	6.6	2.2	2.9

Motor type	TCN		Degree of
Enclosure	TEFC		Mounting
Frame Material	Cast Iron		Cooling m
Frame size	200L		Motor we
Duty	S1		Gross wei
Voltage variation *	± 10%		Motor ine
Frequency variation *	± 5%		Load inert
Combined variation *	10%		Vibration
Design	N		Noise leve
Service factor	1.0		No. of sta
Insulation class	F		Starting m
Ambient temperature	-20 to +40	°C	Type of co
Temperature rise (by resistar	nce) 80 [Class B]	K	LR withsta
Altitude above sea level	1000	meter	Direction
Hazardous area classification	Ex nA		Standard
Zone classification	Zone 2		Paint shad
Gas group	IIC		Accessori
Temperature class	T3		Ac
Rotor type	Aluminum Die cast		Ac
Bearing type	Anti-friction ball		Ac
DE / NDE bearing	6312 C3 / 6212 C3		Terminal I
Lubrication method	Regreasable		Maximum
Type of grease	CHEVRON SRI-2 or Equivalent		Auxiliary t

Degree of protection	IP 55	
Mounting type	IM B5	
Cooling method	IC 411	
Motor weight - approx.	281	kg
Gross weight - approx.	311	kg
Motor inertia	0.4488	kgm ²
Load inertia	Customer to Provide	
Vibration level	2.2	mm/s
Noise level (1meter distance from mote	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	TOP	
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

RFG4/

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

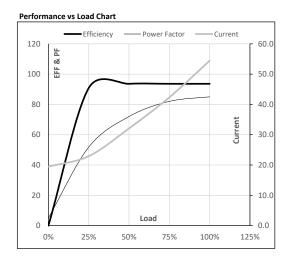




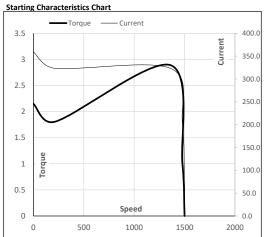
Model No. TCN0302A1121GAC010

	Enclosure	U	Δ / Y	f	Р	Р	1	n	T	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 30 40 54.4 1479 19.64 192.65 IE3 40 S1 1000 0.44	TEFC	400	Δ	50	30	40	54.4	1479	19.64	192.65	IE3	40	S1	1000	0.4488	281

Motor Load Data Load Point 1/4FL 1/2FL 3/4FL FL 5/4FL Current 19.5 22.9 32.1 42.3 54.4 Torque Nm 0.0 47.6 95.6 143.9 192.6 Speed r/min 1500 1495 1490 1485 1479 Efficiency % 0.0 90.8 93.6 93.6 93.6 Power Factor 5.0 51.8 72.0 82.0 85.0



Motor Spee	d Torque Dat	a				
Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	214	1361	1479	1500
Current	Α	359.2	323.3	203.2	54.4	19.5
Torque	nu	2.2	1.8	2.9	1	0



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

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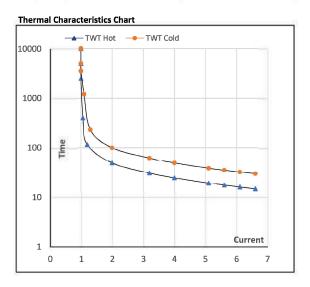




Model No. TCN0302A1121GAC010

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	30	40.0	54.4	1479	19.64	192.65	IE3	40	S1	1000	0.4488	281

d Torg	ue Data						
	FL	I_1	l ₂	l ₃	I_4	I ₅	LR
s	10000	50	42	25	21	19	15
s	10000	99	65	50	41	37	30
pu	1	2	3	4	5	5.5	6.6
	s s	s 10000 s 10000	FL I ₁ s 10000 50 s 10000 99	FL l ₁ l ₂ s 10000 50 42 s 10000 99 65	FL l ₁ l ₂ l ₃ s 10000 50 42 25 s 10000 99 65 50	FL l ₁ l ₂ l ₃ l ₄ s 10000 50 42 25 21 s 10000 99 65 50 41	FL l ₁ l ₂ l ₃ l ₄ l ₅ s 10000 50 42 25 21 19 s 10000 99 65 50 41 37



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

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