PRODUCT INFORMATION PACKET



Model No: TCN0372A1111GAC010
Catalog No: TCN0372A1111GAC010

TerraMAX® Cast Iron Motor, 50 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 225S Frame, TEFC



©2025 Marathon, All Rights Reserved.



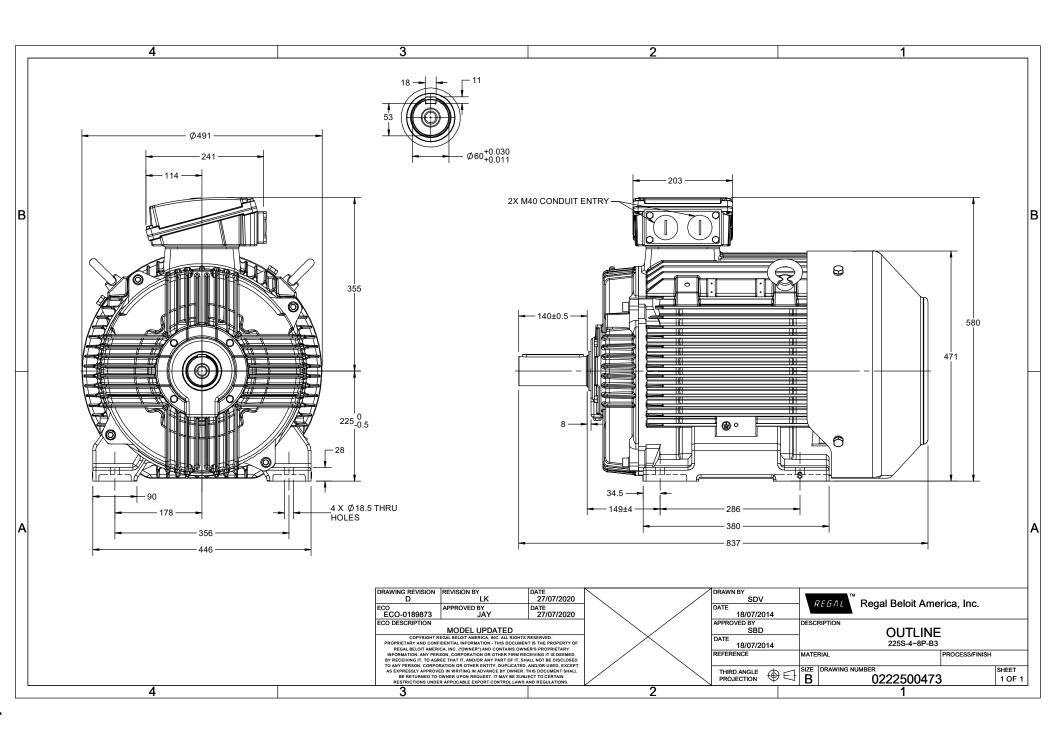
Nameplate Specifications

Phase	3	Output HP	50 Hp
Output KW	37.0 kW	Voltage	400 V
Speed	1484 r/min	Service Factor	1
Frame	225S	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	93.9 %
Ambient Temperature	40 °C	Frequency	50 Hz
Current	66.9 A	Power Factor	0.85
Duty	S1	Insulation Class	F
Drive End Bearing Size	6313	Opp Drive End Bearing Size	6213
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	B3	Motor Orientation	Horizontal
Drive End Bearing	C3	Opp Drive End Bearing	C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	837 mm	Frame Length	400 mm
Shaft Diameter	60 mm	Shaft Extension	140 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0222500473

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:05/16/2025



COPYRIGHT REGAL BELOIT AMERICA, INC. ALL RUSTING FRENCHED COPY PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED, BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.

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. TCN0372A1111GAC010

U	Δ/Υ	f	Р	Р	I	n	Т	IE	% EFF at load			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	37	50	66.9	1484	239.99	IE3	-	93.9	93.9	94	0.85	0.81	0.71	7.3	2.4	3.1

Motor type	TCN	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	225S	
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	6313 C3 / 6213 C3	
Lubrication method	Regreasable	
Type of grease	CHEVRON SRI-2 or Equivalent	

Degree of protection	IP 55	
Mounting type	IM B3	
Cooling method	IC 411	
Motor weight - approx.	381	kg
Gross weight - approx.	401	kg
Motor inertia	0.6683	kgm ²
Load inertia	Customer to Provide	
Vibration level	2.2	mm/s
Noise level (1meter distance from mot	tor) 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

REGAL

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

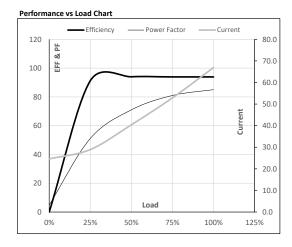




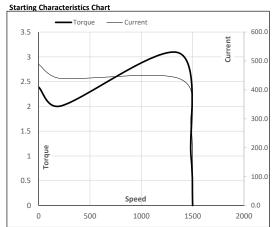
Model No. TCN0372A1111GAC010

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	66.9	1484	24.47	239.99	IE3	40	S1	1000	0.6683	381
-	400		30	37	30	00.5	1404	24.47	233.33	iLS	40	31	1000	0.0003	30

Motor Load Data 5/4FL NL 1/4FL 1/2FL 3/4FL FL Load Point Current 24.6 28.9 40.4 52.9 66.9 Α 179.5 240.0 Torque Nm 0.0 59.5 119.3 1500 1492 1496 1488 Speed r/min 1484 Efficiency % 0.0 91.2 94.0 93.9 93.9 Power Factor 4.8 51.1 71.0 81.0 85.0



Motor Speed Torque Data LR P-Up BD Rated NL Load Point 0 214 1365 1484 1500 Speed r/min Current Α 488.4 439.6 270.1 66.9 24.6 Torque 0 pu



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

Issued By Issued Date

REGAL

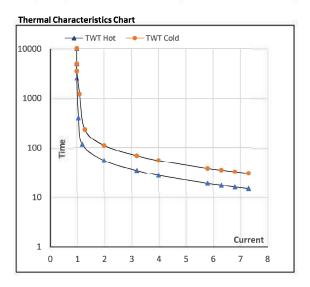




Model No. TCN0372A1111GAC010

Enclosure	U	Δ/Υ	f	Р	Р	ı	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
TEFC	400	Δ	50	37	50.0	66.9	1484	24.47	239.99	IE3	40	S1	1000	0.6683	381

Motor Spee	d Torg	ue Data						
Load		FL	l ₁	l ₂	l ₃	I_4	l ₅	LR
TWT Hot	s	10000	55	37	27	24	20	15
TWT Cold	s	10000	110	72	55	52	41	30
Current	pu	1	2	3	4	5	5.5	7.3



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

Issued By Issued Date

REGAL