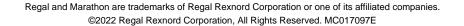
PRODUCT INFORMATION PACKET



Model No: TCM2P22AZ113GAC011 Catalog No: TCM2P22AZ113GAC011

TerraMAX® IE3, Mining Duty Motors, 2.2 kW, 3Ph, 4 Pole, 230/400V, B3, 50Hz, 100L Frame, TEFC







Product Information Packet: Model No: TCM2P22AZ113GAC011, Catalog No:TCM2P22AZ113GAC011 TerraMAX® IE3, Mining Duty Motors, 2.2 kW, 3Ph, 4 Pole, 230/400V, B3, 50Hz, 100L Frame, TEFC



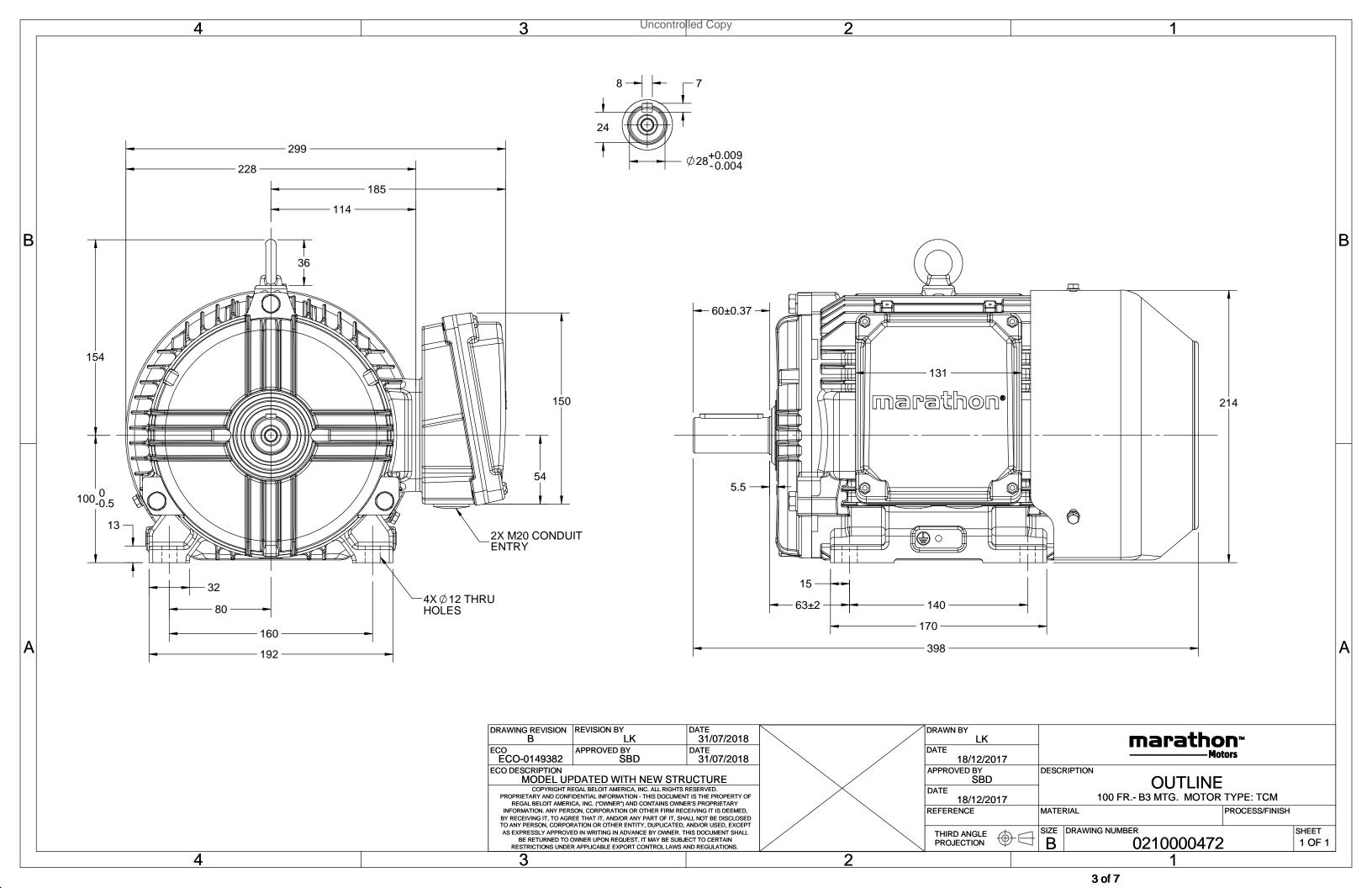
Nameplate Specifications

Output HP	3 Hp	Output KW	2.2 kW
Frequency	50 Hz	Voltage	230/400 V
Current	4.4 A	Speed	1456 rpm
Service Factor	1	Phase	3
Efficiency	86.7 %	Power Factor	0.84
Duty	S1	Insulation Class	Н
Frame	100L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6206	Opp Drive End Bearing Size	6206
UL	NO	CSA	NO
CE	YES	IP Code	66
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	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	398 mm	Frame Length	200 mm
Shaft Diameter	28 mm	Shaft Extension	60 mm
Assembly/Box Mounting	RHS		
Outline Drawing	0210000472	Connection Drawing	8442000085

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:12/02/2022



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

GEOMENTRIC TOLERANCE							
	>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. TCM2P22AZ113GAC011

U	Δ/Υ	f	Р	Р	1	n	T	IE	9	% EFF a	t load	l	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	Υ	50	2.2	3	4.4	1456	14.67	IE3	-	86.7	86.7	85.1	0.84	0.77	0.65	7	2.3	2.9

Motor type	TCM	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	100L	
Duty	S1	
Voltage variation *	± 10%	
Frequency variation *	± 5%	
Combined variation *	10%	
Design	N	
Service factor	1.15	
Insulation class	Н	
Ambient temperature	-20 to +40	°C
Temperature rise (by resistance) 80 [Class B]	K
Altitude above sea level	1000	meter
Hazardous area classification	NA	
Zone classification	NA	
Gas group	NA	
Temperature class	NA	
Rotor type	Aluminum Die cast	
Bearing type	Anti-friction ball	
DE / NDE bearing	6206-2Z-C3 / 6206-2Z-C3	
Lubrication method	Greased for life	
Type of grease	NA	

Degree of protection	IP 66	
Mounting type	IM B3	
Cooling method	IC 411	
Motor weight - approx.	39	kg
Gross weight - approx.	42	kg
Motor inertia	0.0115	kgm^2
Load inertia	Customer to Provide	
Vibration level	1.6	mm/s
Noise level (1meter distance from mo	tor) 55	dB(A)
No. of starts hot/cold/Equally spread	2/3/4	
Starting method	DOL	
Type of coupling	Direct	
LR withstand time (hot/cold)	25-Dec	S
Direction of rotation	Bi-directional	
Standard rotation	Clockwise form DE	
Paint shade	RAL 2008	
Accessories		
Accessory - 1	PTC 150°C	
Accessory - 2	-	
Accessory - 3	-	
Terminal box position	RHS	
Maximum cable size/conduit size	1R x 3C x 16mm²/2 x M25 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

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
 AS/NZ 1359:5:2004
 IEC:60034-30-1

REGAL

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

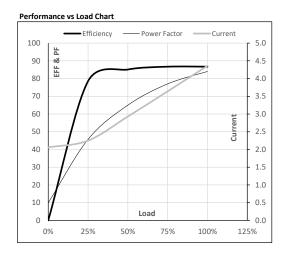




Model No. TCM2P22AZ113GAC011

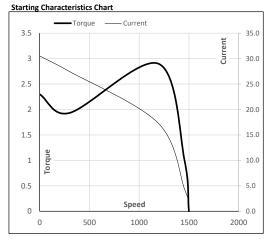
Enclosure	U	Δ/Υ	f	Р	Р	1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Υ	50	2.2	3.0	4.4	1456	1.50	14.67	IE3	40	S1	1000	0.0115	39

Motor Load Da	ata						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	2.1	2.3	2.9	3.6	4.4	
Torque	Nm	0.0	3.6	7.2	10.9	14.7	
Speed	r/min	1500	1490	1480	1469	1456	
Efficiency	%	0.0	78.5	85.1	86.7	86.7	
Power Factor	%	9.9	45.7	65.0	77.0	84.0	



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	300	1194	1456	1500	
Current	Α	30.5	27.5	17.3	4.4	2.1	
Torque	pu	2.3	1.9	2.9	1	0	



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

Issued By Issued Date

REGAL

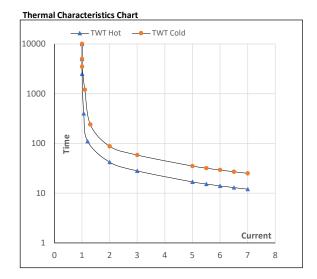




Model No. TCM2P22AZ113GAC011

Enclosure	U	Δ/Υ	f	Р	Р	ı	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	Υ	50	2.2	3.0	4.4	1456	1.50	14.67	IE3	40	S1	1000	0.0115	39

Motor Speed	Motor Speed Torque Data												
Load		FL	I_1	l ₂	l ₃	I_4	I ₅	LR					
TWT Hot	S	10000	42	28	20	17	14	12					
TWT Cold	S	10000	88	58	40	35	29	25					
Current	pu	1	2	3	4	5	6	7					



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

Issued By Issued Date

REGAL