PRODUCT INFORMATION PACKET



Model No: TCM2P24AZ113GAC011 Catalog No: TCM2P24AZ113GAC011

TerraMAX® IE3, Mining Duty Motors, 2.2 kW, 3Ph, 8 Pole, 230/400V, B3, 50Hz, 132S Frame, TEFC



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Product Information Packet: Model No: TCM2P24AZ113GAC011, Catalog No:TCM2P24AZ113GAC011 TerraMAX® IE3, Mining Duty Motors, 2.2 kW, 3Ph, 8 Pole, 230/400V, B3, 50Hz, 132S Frame, TEFC



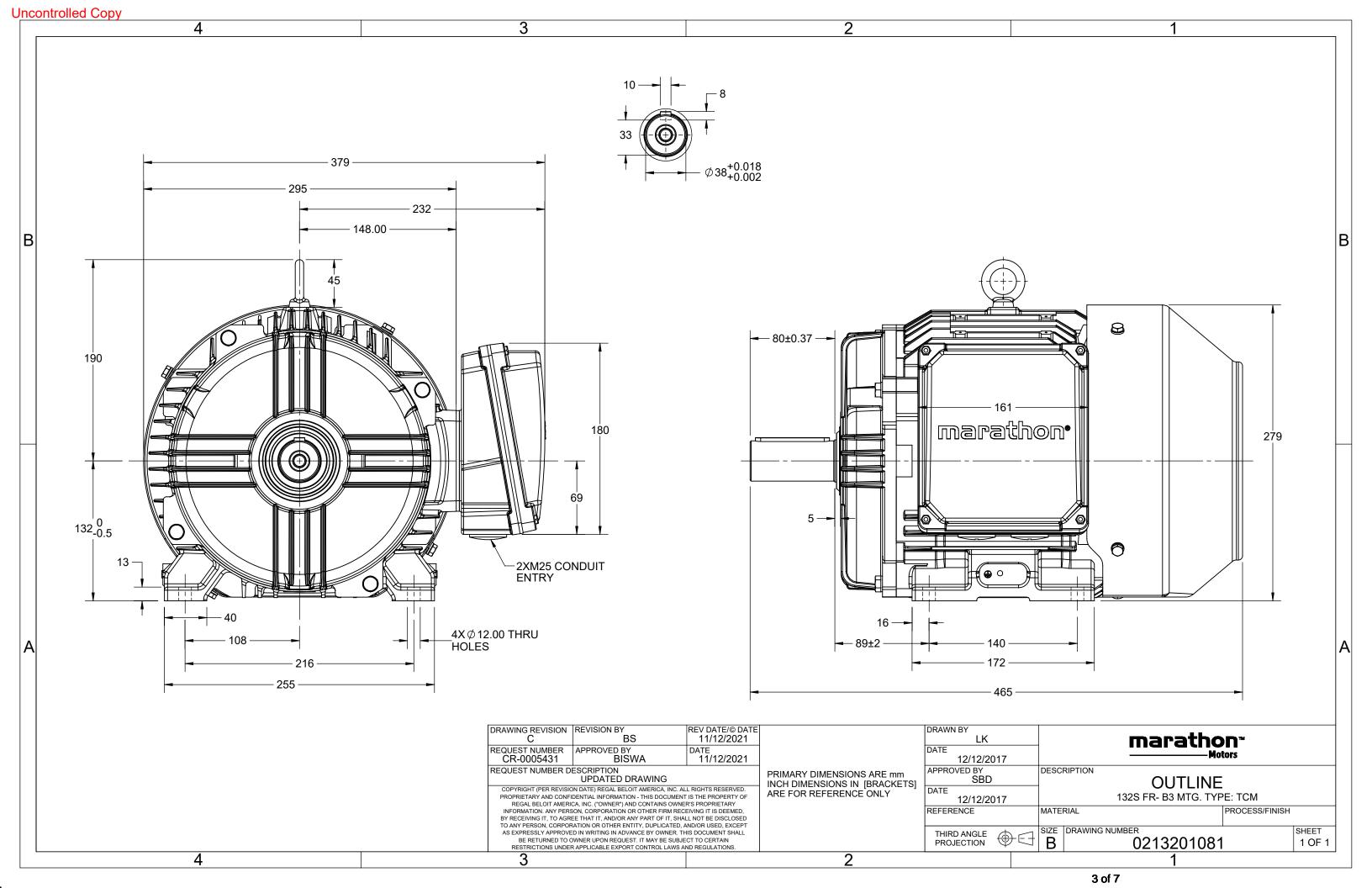
Nameplate Specifications

Output HP	3 Hp	Output KW	2.2 kW
Frequency	50 Hz	Voltage	230/400 V
Current	5.5 A	Speed	723 rpm
Service Factor	1	Phase	3
Efficiency	81.9 %	Power Factor	0.7
Duty	S 1	Insulation Class	Н
Frame	132S	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6308	Opp Drive End Bearing Size	6208
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	8	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	465 mm	Frame Length	202 mm
Shaft Diameter	38 mm	Shaft Extension	80 mm
Assembly/Box Mounting	RHS		
Outline Drawing	0213201081	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

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. TCM2P24AZ113GAC011

U	Δ/Υ	f	Р	Р	I	n	Т	IE	9	% EFF a	t load	t	PI	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	2.953	5.8	723	29.6	IE3	-	81.9	81.9	81.3	0.7	0.6	0.45	4.4	1.8	2.3

Motor type	TCM	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	132S	
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	6308-2Z-C3 / 6208-2Z-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.	71	kg
Gross weight - approx.	74	kg
Motor inertia	0.0453	kgm ²
Load inertia	Customer to Provide	
Vibration level	1.6	mm/s
Noise level (1meter distance from motor)	58	dB(A)
No. of starts hot/cold/Equally spread	2/3/4	
Starting method	DOL	
Type of coupling	Direct	
LR withstand time (hot/cold)	25/50	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 35mm²/2 x M32 x 1.5	
Auxiliary terminal box	YES	

 I_A/I_N - Locked Rotor Current / Rated Current T_A/T_N - Locked Rotor Torque / Rated Torque

 $T_{\mbox{\scriptsize K}}/T_{\mbox{\scriptsize N}}$ - 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

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^{*} Voltage, Frequency and combine variation are as per IEC60034-1

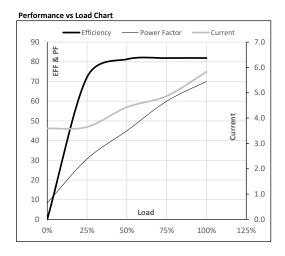




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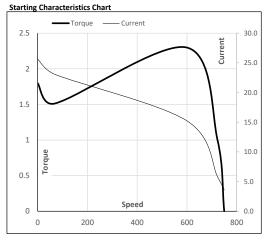
Enclosure (U	Δ/Υ	f	Р	Р	1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
()	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC 40	100	Υ	50	2.2	3.0	5.8	723	3.02	29.60	IE3	40	S1	1000	0.0453	71

Motor Load Da	ata						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	3.6	3.7	4.4	4.9	5.8	
Torque	Nm	0.0	7.2	14.5	22.0	29.6	
Speed	r/min	750	744	738	731	723	
Efficiency	%	0.0	72.2	81.3	81.9	81.9	
Power Factor	%	8.4	30.7	45.0	60.0	70.0	



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	68	598	723	750	
Current	Α	25.7	23.1	15.3	5.8	3.6	
Torque	pu	1.8	1.5	2.3	1	0	



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

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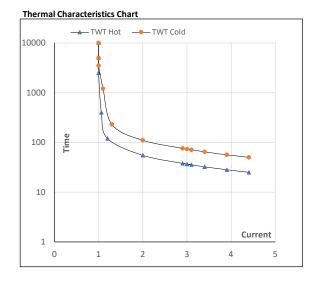




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Enclosure	U	Δ/Υ	f	Р	Р	ı	n	T	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
TEFC	400	Υ	50	2.2	3	5.8	723	3.02	29.60	IE3	40	S1	1000	0.0453	71.0

Motor Speed Torque Data LR Load TWT Hot s 10000 55 30 27 25 TWT Cold s 10000 110 85 73 62 54 50 3.5 4 4.4___ Current pu 1 2 2.5



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

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