PRODUCT INFORMATION PACKET



Model No: TCM0113A2113GAC011 Catalog No: TCM0113A2113GAC011

TerraMAX® IE3, Mining Duty Motors, 11 kW, 3Ph, 6 Pole, 400/690V, B3, 50Hz, 160L Frame, TEFC



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Product Information Packet: Model No: TCM0113A2113GAC011, Catalog No:TCM0113A2113GAC011 TerraMAX® IE3, Mining Duty Motors, 11 kW, 3Ph, 6 Pole, 400/690V, B3, 50Hz, 160L Frame, TEFC



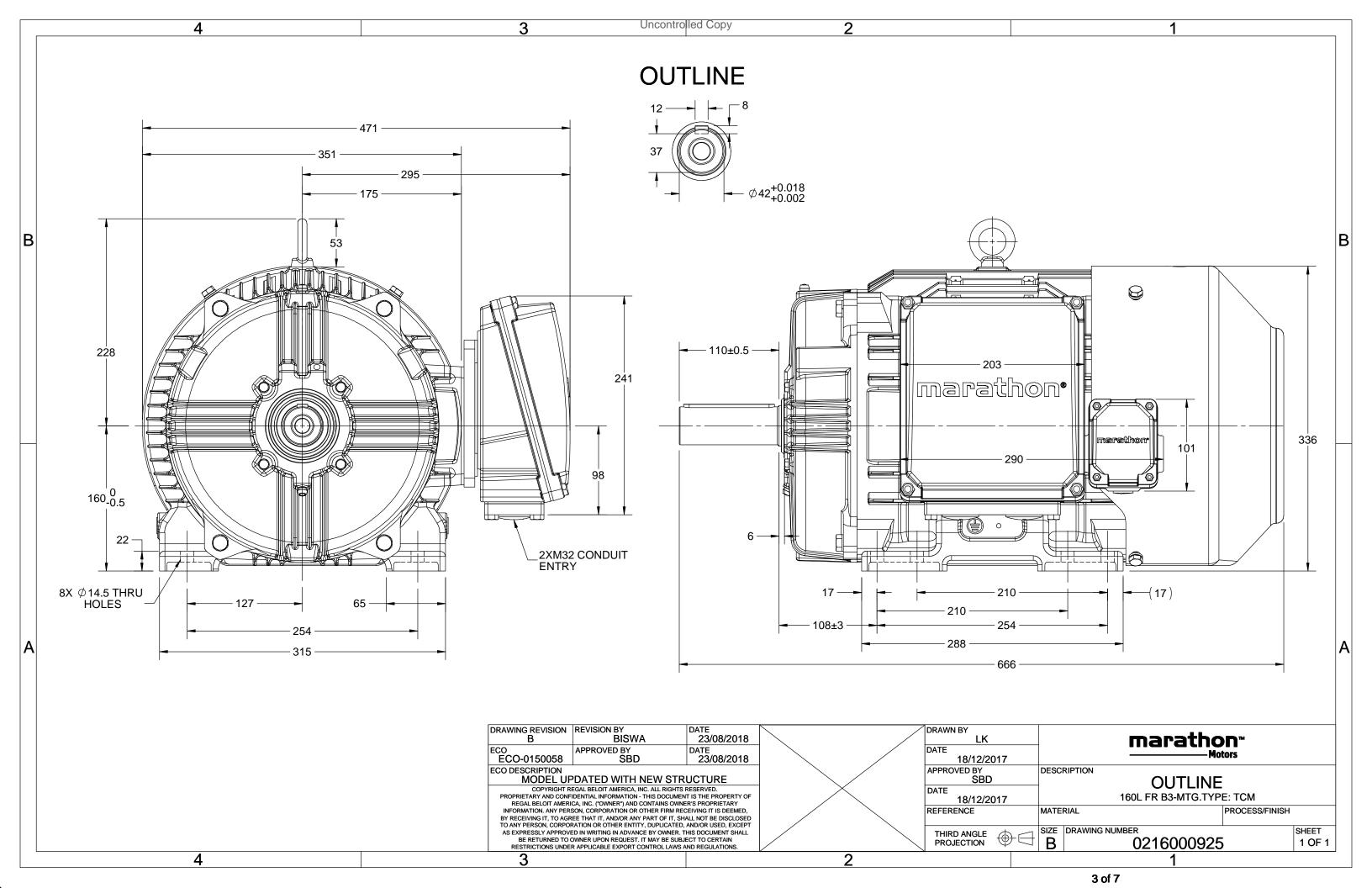
Nameplate Specifications

15 Hp	Output KW	11.0 kW
50 Hz	Voltage	400/690 V
22.3 A	Speed	977 rpm
1	Phase	3
90.3 %	Power Factor	0.79
S1	Insulation Class	н
160L	Enclosure	Totally Enclosed Fan Cooled
No Protection	Ambient Temperature	40 °C
6309	Opp Drive End Bearing Size	6209
NO	CSA	NO
YES	IP Code	66
1	Efficiency Class	IE3
	50 Hz 22.3 A 1 90.3 % S1 160L No Protection 6309 NO	50 HzVoltage22.3 ASpeed1Phase90.3 %Power FactorS1Insulation Class160LEnclosureNo ProtectionAmbient Temperature6309Opp Drive End Bearing SizeNOCSAYESIP Code

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	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	666 mm	Frame Length	298 mm
Shaft Diameter	42 mm	Shaft Extension	110 mm
Assembly/Box Mounting	RHS		
Connection Drawing	8442000085	Outline Drawing	0216000925

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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. TCM0113A2113GAC011

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	Δ	50	11	15	22.3	977	109.33	IE3	-	90.3	90.3	89.6	0.79	0.73	0.59	5.6	2.0	2.6

Motor type	TCM	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	160L	
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	6309-C3 / 6209-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.	164	kg
Gross weight - approx.	184	kg
Motor inertia	0.1811	kgm ²
Load inertia	Customer to Provide	
Vibration level	2.2	mm/s
Noise level (1meter distance from mo	otor) 61	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_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

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

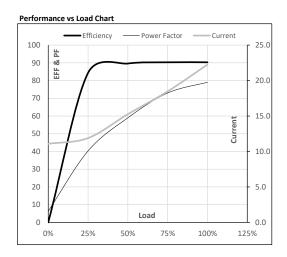




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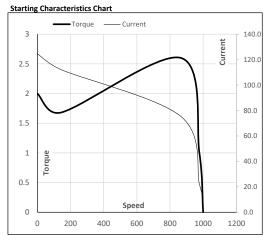
				-		- 11	ı	1	IE	Amb	Duty	Elevation	Inertia	Weight
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC 400	Δ	50	11	15.0	22.3	977	11.15	109.33	IE3	40	S1	1000	0.1811	164

Motor Load Da	ata						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	11.1	11.9	15.3	18.5	22.3	
Torque	Nm	0.0	26.9	54.0	81.5	109.3	
Speed	r/min	1000	995	989	984	977	
Efficiency	%	0.0	84.3	89.6	90.3	90.3	
Power Factor	%	6.3	40.3	59.0	73.0	79.0	



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	143	866	977	1000	
Current	Α	124.6	112.2	75.3	22.3	11.1	
Torque	pu	2.0	1.7	2.6	1	0	



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

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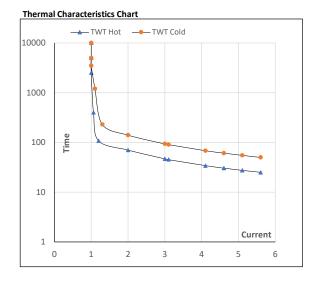




Model No. TCM0113A2113GAC011

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	Δ	50	11	15	22.3	977	11.15	109.33	IE3	40	S1	1000	0.1811	164

Motor Speed Torque Data								
Load		FL	l ₁	l ₂	l ₃	I ₄	I ₅	LR
TWT Hot	S	10000	70	47	35	28	26	25
TWT Cold	S	10000	140	93	75	56	52	50
Current	pu	1	2	3	4	5	5.5	5.6



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

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