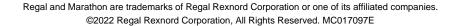
PRODUCT INFORMATION PACKET



Model No: TCM0551A2113GAC011 Catalog No: TCM0551A2113GAC011

TerraMAX® IE3, Mining Duty Motors, 55 kW, 3Ph, 2 Pole, 400/690V, B3, 50Hz, 250M Frame, TEFC







Product Information Packet: Model No: TCM0551A2113GAC011, Catalog No:TCM0551A2113GAC011 TerraMAX® IE3, Mining Duty Motors, 55 kW, 3Ph, 2 Pole, 400/690V, B3, 50Hz, 250M Frame, TEFC



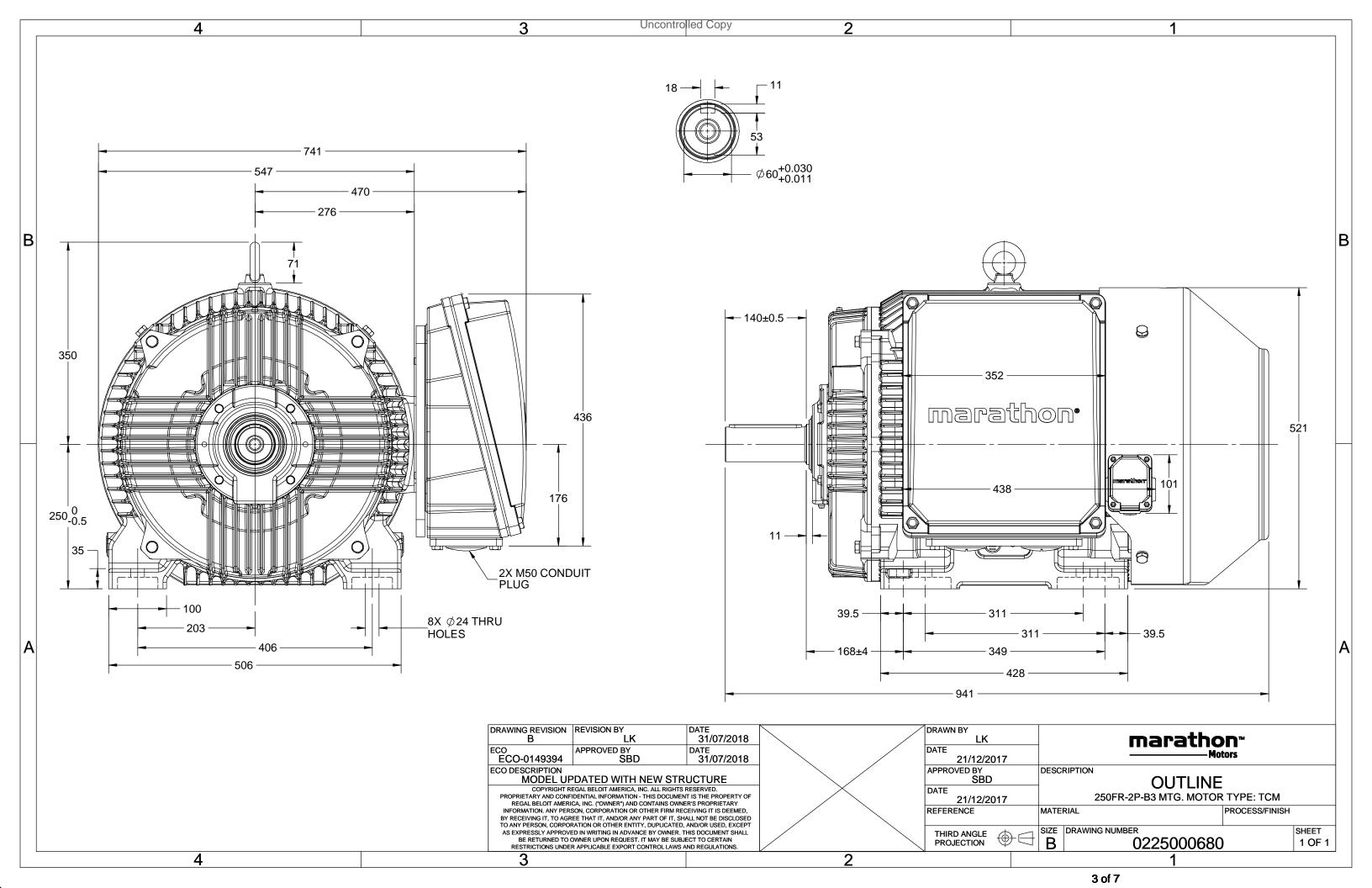
Nameplate Specifications

Output HP	75 Hp	Output KW	55.0 kW
Frequency	50 Hz	Voltage	400/690 V
Current	94.6 A	Speed	2977 rpm
Service Factor	1	Phase	3
Efficiency	94.3 %	Power Factor	0.89
Duty	S 1	Insulation Class	Н
Frame	250M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6314	Opp Drive End Bearing Size	6314
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	2	Rotation	Bi-Directional
Mounting	В3	Motor Orientation	Horizontal
Drive End Bearing	СЗ	Opp Drive End Bearing	СЗ
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	941 mm	Frame Length	460 mm
Shaft Diameter	60 mm	Shaft Extension	140 mm
Assembly/Box Mounting	RHS		
Outline Drawing	0225000680	Connection Drawing	8442000086

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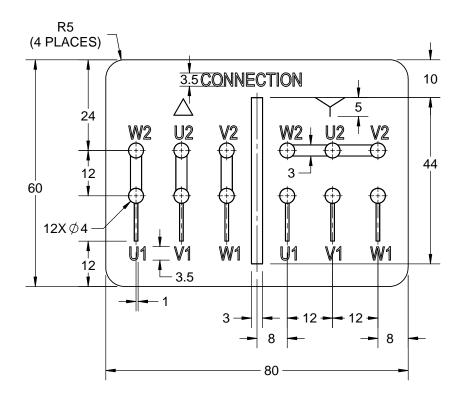


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DRAWING REVISION	REVISION BY SN	DATE 13/01/2016
A	SIN	13/01/2016
ECO	APPROVED BY	DATE
ECO-0116390	SBD	13/01/2016
ECO DESCRIPTION	•	

NEW DRAWING RELEASE

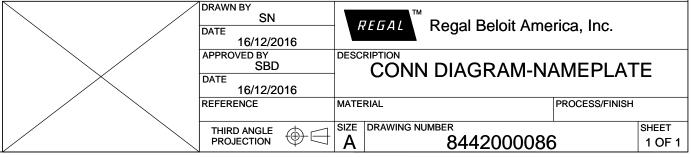
GEN	GENERAL TOLERANCE									
	>0~6	±0.1								
LINEAR DIM	>6~30	±0.2								
	>30~120	±0.3								



NOTES:

- PRESSURE-SENSITIVE ADHESIVE TAPE COATED WITH ANTI-ADHESIVE. 1.
- 2.
- AT THE END OF YELLOW, WORDS, SYMBOLS, LETTERS ARE BLACK. THE TOLERANCE OF THE LINEAR SIZE OF THE TOLERANCE WITHOUT THE TOLERANCE BY THE TABLE.

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Model No. TCM0551A2113GAC011

U	Δ/Υ	f	Р	Р	I	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	55	75	94.6	2977	179.37	IE3	-	94.3	94.3	93	0.89	0.86	0.78	7	1.9	3.4

Motor type	TCM	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	250M	
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	ce) 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	6314-C3 / 6314-C3	
Lubrication method	Regreasable	
Type of grease	CHEVRON SRI-2 or Equivalent	

Degree of protection	IP 66	
Mounting type	IM B3	
Cooling method	IC 411	
Motor weight - approx.	495	kg
Gross weight - approx.	530	kg
Motor inertia	0.6214	kgm ²
Load inertia	Customer to Provide	
Vibration level	2.2	mm/s
Noise level (1meter distance from mo	tor) 75	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 2008	
Accessories		
Accessory - 1	PTC 150°C	
Accessory - 2	-	
Accessory - 3	-	
Terminal box position	RHS	
Maximum cable size/conduit size	1R x 3C x 95mm²/2 x M50 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	-	IFC:60034-30-1

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

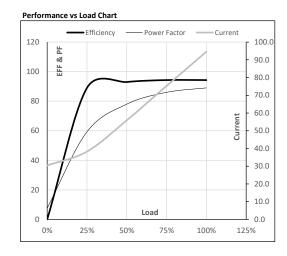




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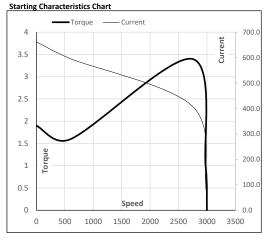
Enclosure	U	Δ/Υ	f	Р	Р	1	n	Т	T	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
TEFC	400	Δ	50	55	75.0	94.6	2977	18.29	179.37	IE3	40	S1	1000	0.6214	495

Motor Load Da	ata						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	30.4	38.3	55.9	75.3	94.6	
Torque	Nm	0.0	44.6	89.3	134.3	179.4	
Speed	r/min	3000	2994	2989	2983	2977	
Efficiency	%	0.0	89.0	93.0	94.3	94.3	
Power Factor	%	7.6	59.3	78.0	86.0	89.0	



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	600	2739	2977	3000	
Current	Α	662.1	595.9	410.3	94.6	30.4	
Torque	pu	1.9	1.6	3.4	1	0	



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

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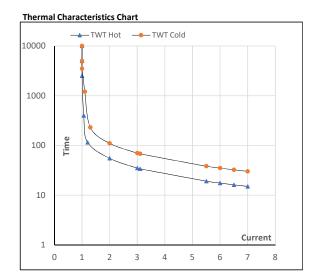




Model No. TCM0551A2113GAC011

Enclosure	U	Δ/Υ	f	Р	Р	I	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	55	75	94.6	2977	18.29	179.37	IE3	40	S1	1000	0.6214	495

Motor Speed Torque Data								
Load		FL	l ₁	l ₂	l ₃	I_4	I ₅	LR
TWT Hot	S	10000	55	35	30	25	19	15
TWT Cold	S	10000	110	70	60	45	38	30
Current	pu	1	2	3	4	5	5.5	7



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

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