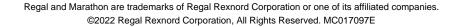
PRODUCT INFORMATION PACKET



Model No: TCM0552A2113GAC011 Catalog No: TCM0552A2113GAC011

TerraMAX® IE3, Mining Duty Motors, 55 kW, 3Ph, 4 Pole, 400/690V, B3, 50Hz, 250M Frame, TEFC







Product Information Packet: Model No: TCM0552A2113GAC011, Catalog No:TCM0552A2113GAC011 TerraMAX® IE3, Mining Duty Motors, 55 kW, 3Ph, 4 Pole, 400/690V, B3, 50Hz, 250M Frame, TEFC



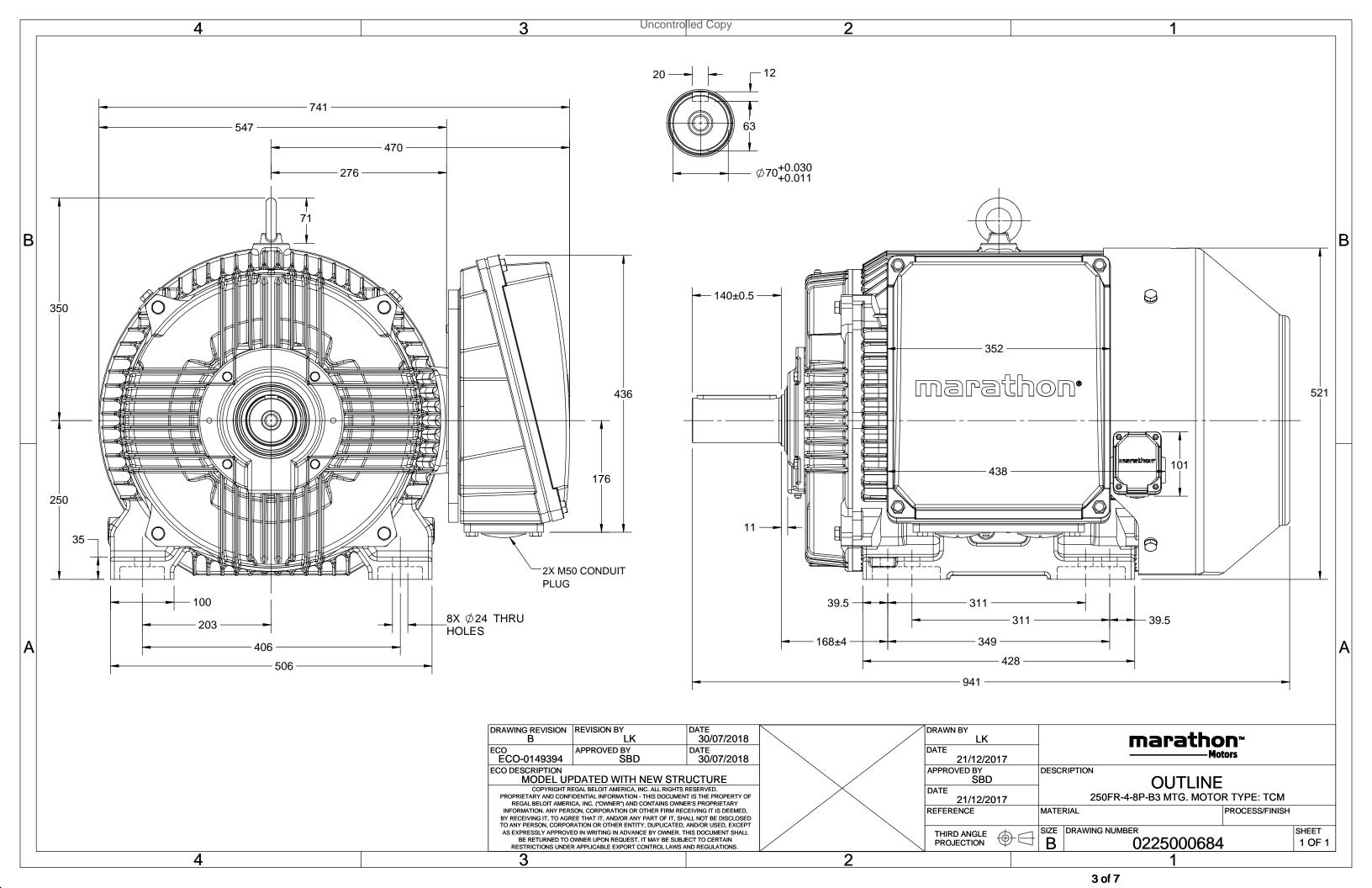
Nameplate Specifications

Output HP	75 Hp	Output KW	55.0 kW
Frequency	50 Hz	Voltage	400/690 V
Current	97.6 A	Speed	1487 rpm
Service Factor	1	Phase	3
Efficiency	94.6 %	Power Factor	0.86
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	NU316	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	4	Rotation	Bi-Directional
Mounting	B3	Motor Orientation	Horizontal
Drive End Bearing	C3	Opp Drive End Bearing	С3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	941 mm	Frame Length	460 mm
Shaft Diameter	70 mm	Shaft Extension	140 mm
Assembly/Box Mounting	RHS		
Outline Drawing	0225000684	Connection Drawing	8442000086

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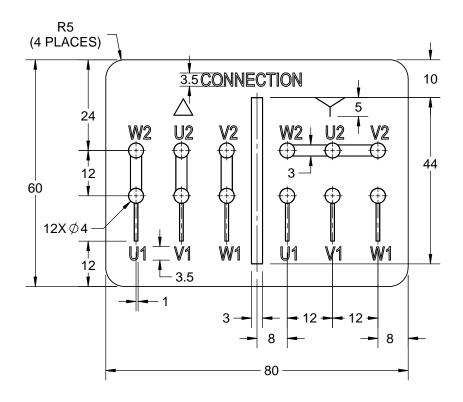


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DRAWING REVISION	REVISION BY SN	DATE 13/01/2016
A	SIN	13/01/2016
ECO	APPROVED BY	DATE
ECO-0116390	SBD	13/01/2016
ECO DESCRIPTION	•	

NEW DRAWING RELEASE

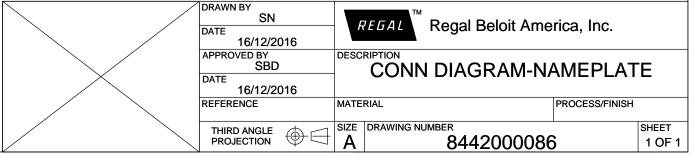
GENERAL TOLERANCE									
	>0~6	±0.1							
LINEAR DIM	>6~30	±0.2							
	>30~120	±0.3							



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. TCM0552A2113GAC011

U	Δ/Υ	f	Р	Р	I	n	Т	IE	9	% EFF a	t load	ł	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	97.6	1487	359.08	IE3	-	94.6	94.6	94	0.86	0.81	0.71	7.2	2.2	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	NU316-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.	541	kg
Gross weight - approx.	576	kg
Motor inertia	1.3974	kgm ²
Load inertia	Customer to Provide	
Vibration level	2.2	mm/s
Noise level (1meter distance from mot	or) 68	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	
	1R x 3C x 95mm ² /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.

						8 - 1
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

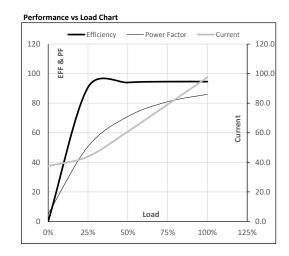




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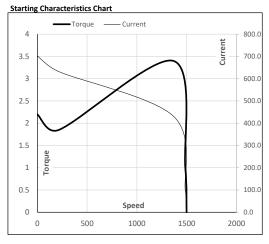
Enclosure	U	Δ / Y	f	Р	Р	1	n	T	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	55	75.0	97.6	1487	36.62	359.08	IE3	40	S1	1000	1.3974	541

Motor Load Da	ata						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	37.5	43.9	60.8	79.1	97.6	
Torque	Nm	0.0	89.2	178.8	268.7	359.1	
Speed	r/min	1500	1497	1494	1491	1487	
Efficiency	%	0.0	90.7	94.0	94.6	94.6	
Power Factor	%	5.1	50.7	71.0	81.0	86.0	



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	214	1368	1487	1500	
Current	Α	702.6	632.3	431.6	97.6	37.5	
Torque	pu	2.2	1.8	3.4	1	0	



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

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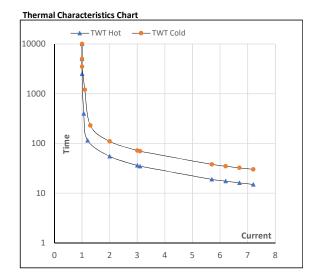




Model No. TCM0552A2113GAC011

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-m ²]	[kg]
TEFC	400	Δ	50	55	75	97.6	1487	36.62	359.08	IE3	40	S1	1000	1.3974	541

Motor Speed Torque Data								
Load		FL	l ₁	l ₂	l ₃	I ₄	I ₅	LR
TWT Hot	S	10000	55	36	30	25	20	15
TWT Cold	S	10000	110	72	60	45	40	30
Current	pu	1	2	3	4	5	5.5	7.2



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

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