PRODUCT INFORMATION PACKET



Model No: TCM5P54A2121GAC011 Catalog No: TCM5P54A2121GAC011

TerraMAX® IE3, Mining Duty Motors, 5.5 kW, 3Ph, 8 Pole, 400/690V, B5, 50Hz, 160M Frame, TEFC





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Product Information Packet: Model No: TCM5P54A2121GAC011, Catalog No:TCM5P54A2121GAC011 TerraMAX® IE3, Mining Duty Motors, 5.5 kW, 3Ph, 8 Pole, 400/690V, B5, 50Hz, 160M Frame, TEFC



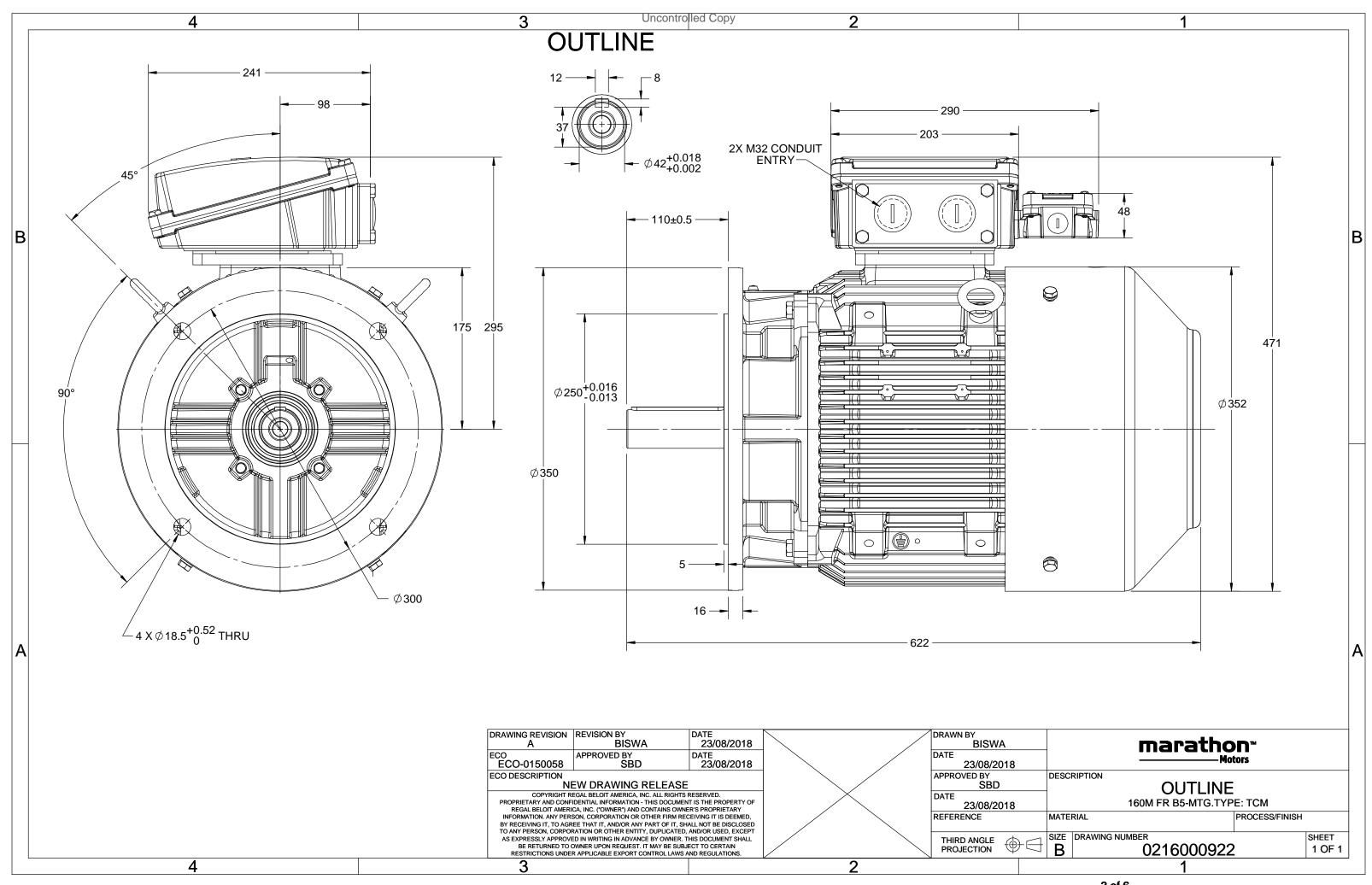
Nameplate Specifications

Output HP	7.50 Hp	Output KW	5.5 kW
Frequency	50 Hz	Voltage	400/690 V
Current	12.8 A	Speed	729 rpm
Service Factor	1	Phase	3
Efficiency	86.2 %	Power Factor	0.72
Duty	S 1	Insulation Class	Н
Frame	160M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6209
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	B5	Motor Orientation	Horizontal
Drive End Bearing	C3	Opp Drive End Bearing	C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	622 mm	Frame Length	254 mm
Shaft Diameter	42 mm	Shaft Extension	110 mm
Assembly/Box Mounting	TOP		
Outline Drawing	0216000922	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.

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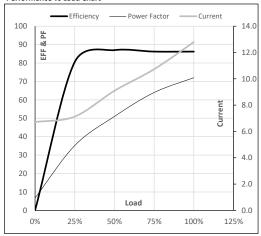
Model No. TCM5P54A2121GAC011

Enclosure	U	Δ/Υ	f	Р	Р	1	n	T	T	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	5.5	8	12.8	729	7.49	73.42	IE3	40	S1	1000	0.1674	157

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	6.7	7.1	9.1	10.7	12.8	
Torque	Nm	0.0	18.0	36.1	54.6	73.4	
Speed	r/min	750	745	740	735	729	
Efficiency	%	0.0	80.6	87.0	86.2	86.2	
Power Factor	%	6.7	35.2	51.0	64.0	72.0	

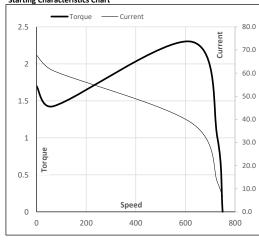
Performance vs Load Chart



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	68	624	729	750
Current	Α	67.8	61.0	38.5	12.8	6.7
Torque	pu	1.7	1.4	2.3	1	0

Starting Characteristics Chart



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

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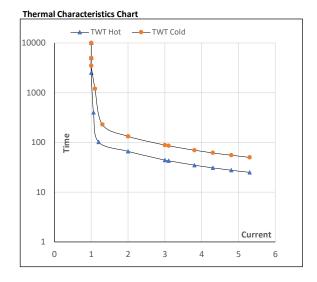




Model No. TCM5P54A2121GAC011

Enclosure	U	Δ/Υ	f	Р	Р	I	n	T	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	5.5	7.5	12.8	729	7.49	73.42	IE3	40	S1	1000	0.1674	157

Motor Speed Torque Data Load LR TWT Hot s 10000 66 33 26 25 TWT Cold s 10000 133 88 67 58 53 50 4.5 5 5.3 Current pu 1 2 4



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

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