PRODUCT INFORMATION PACKET



Model No: TCMP752AZ121GAC011 Catalog No: TCMP752AZ121GAC011

TerraMAX® IE3, Mining Duty Motors, 0.75 kW, 3Ph, 4 Pole, 230/400V, B5, 50Hz, 80M Frame, TEFC





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Product Information Packet: Model No: TCMP752AZ121GAC011, Catalog No:TCMP752AZ121GAC011 TerraMAX® IE3, Mining Duty Motors, 0.75 kW, 3Ph, 4 Pole, 230/400V, B5, 50Hz, 80M Frame, TEFC



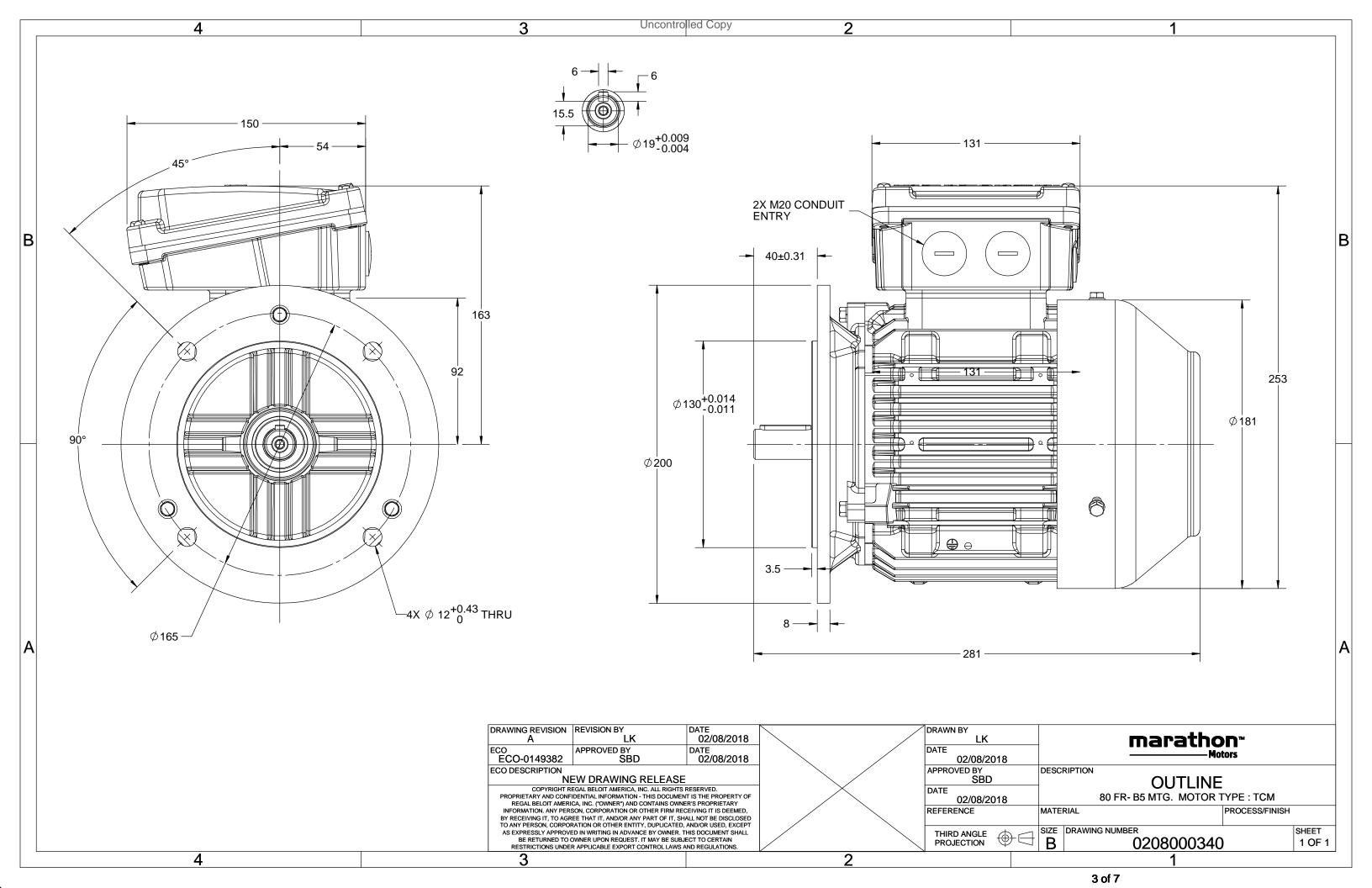
Nameplate Specifications

Output HP	1 Hp	Output KW	0.75 kW
Frequency	50 Hz	Voltage	230/400 V
Current	1.7 A	Speed	1446 rpm
Service Factor	1	Phase	3
Efficiency	82.5 %	Power Factor	0.75
Duty	S1	Insulation Class	н
Frame	80M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6204	Opp Drive End Bearing Size	6204
UL	NO	CSA	NO
CE	YES	IP Code	66
Number of Speeds		Efficiency Class	IE3

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	B5	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	281 mm	Frame Length	140 mm
Shaft Diameter	19 mm	Shaft Extension	40 mm
Assembly/Box Mounting	ТОР		
Connection Drawing	8442000085	Outline Drawing	0208000340

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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

GEOM	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. TCMP752AZ121GAC011

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	Υ	50	0.75	1	1.7	1446	4.92	IE3	-	82.5	82.5	77.6	0.75	0.66	0.51	6.6	3.0	3

Motor type	TCM	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	80M	
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	6204-2Z / 6204-2Z	
Lubrication method	Greased for life	
Type of grease	NA	

Degree of protection	IP 66	
Mounting type	IM B5	
Cooling method	IC 411	
Motor weight - approx.	23	kg
Gross weight - approx.	24	kg
Motor inertia	0.0031	kgm²
Load inertia	Customer to Provide	
Vibration level	1.6	mm/s
Noise level (1meter distance from mo	tor) 54	dB(A)
No. of starts hot/cold/Equally spread	2/3/4	
Starting method	DOL	
Type of coupling	Direct	
LR withstand time (hot/cold)	18/36	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	TOP	
Maximum cable size/conduit size	1R x 3C x 10mm²/2 x M20 x 1.5	
Auxiliary terminal box	NA	

 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 combined variation are as per IEC60034-1





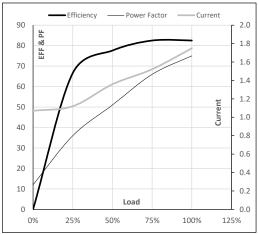
Model No. TCMP752AZ121GAC011

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	Υ	50	0.75	1	1.7	1446	0.50	4.92	IE3	40	S1	1000	0.0031	23

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	1.1	1.1	1.4	1.5	1.7	
Torque	Nm	0.0	1.2	2.4	3.7	4.9	
Speed	r/min	1500	1486	1474	1461	1446	
Efficiency	%	0.0	66.6	77.6	82.5	82.5	
Power Factor	%	12.0	36.0	51.0	66.0	75.0	

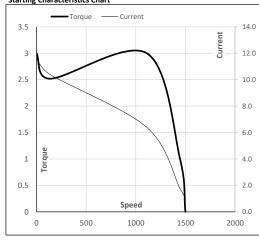
Performance vs Load Chart



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	136	1112	1446	1500
Current	Α	11.5	10.4	6.4	1.7	1.1
Torque	pu	3.0	2.5	3.0	1	0

Starting Characteristics Chart



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

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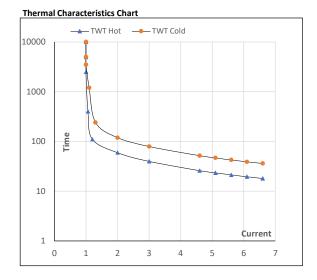




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Enclosure	U	Δ/Υ	f	Р	Р	ı	n	T	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
TEFC	400	Υ	50	0.75	1.0	1.7	1446	0.50	4.92	IE3	40	S1	1000	0.0031	23

Motor Speed Torque Data								
Load		FL	l ₁	l ₂	l ₃	I_4	I ₅	LR
TWT Hot	S	10000	59	40	33	23	20	18
TWT Cold	S	10000	119	79	62	47	40	36
Current	pu	1	2	3	4	5	6	6.6



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

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