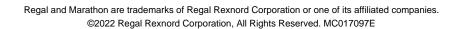
PRODUCT INFORMATION PACKET



Model No: TCM0374A2113GAC011 Catalog No: TCM0374A2113GAC011

TerraMAX® IE3, Mining Duty Motors, 37 kW, 3Ph, 8 Pole, 400/690V, B3, 50Hz, 280S Frame, TEFC







Product Information Packet: Model No: TCM0374A2113GAC011, Catalog No:TCM0374A2113GAC011 TerraMAX® IE3, Mining Duty Motors, 37 kW, 3Ph, 8 Pole, 400/690V, B3, 50Hz, 280S Frame, TEFC



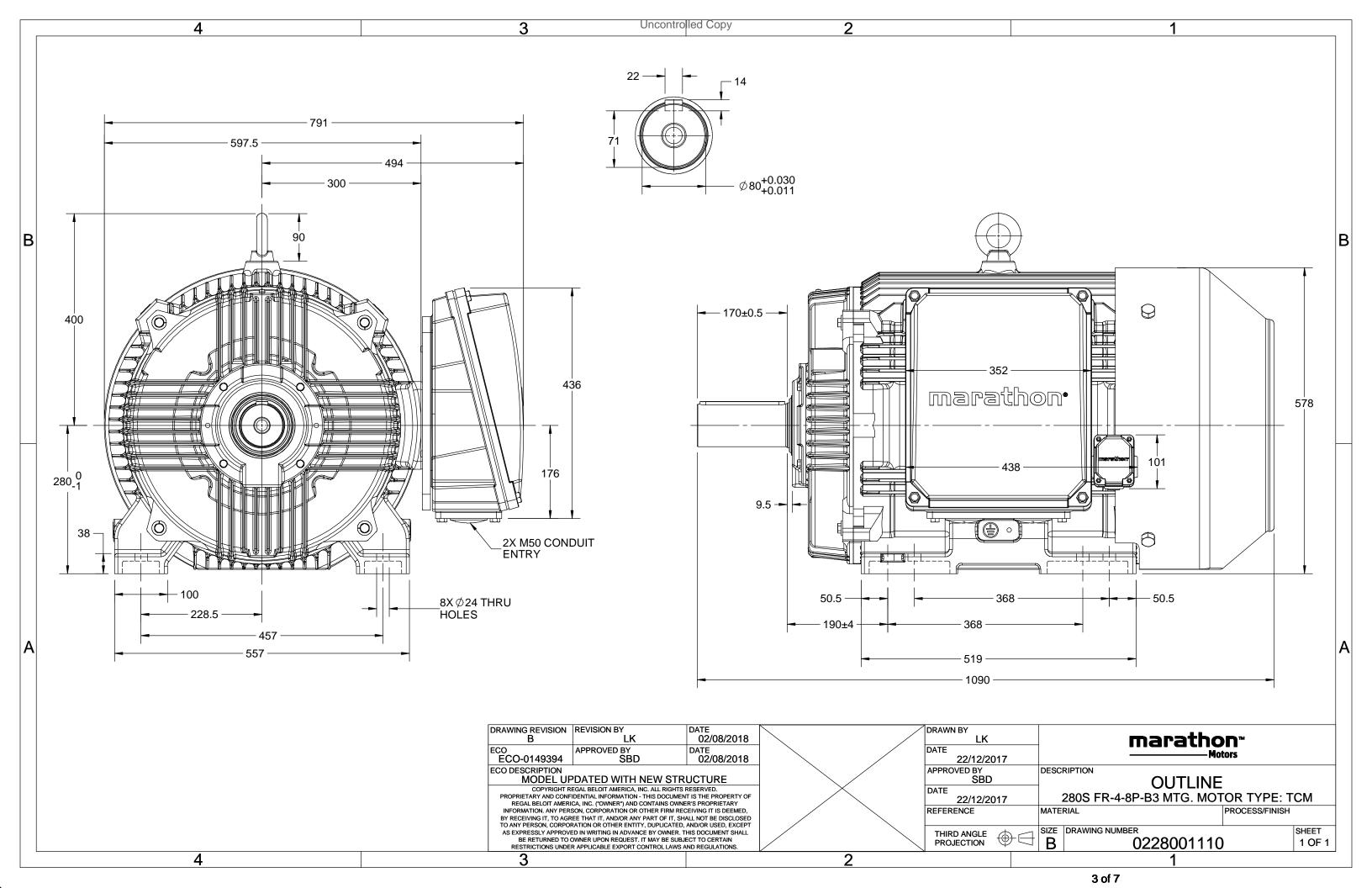
Nameplate Specifications

50 Hp	Output KW	37.0 kW
50 Hz	Voltage	400/690 V
74.6 A	Speed	742 rpm
1	Phase	3
91.8 %	Power Factor	0.78
S1	Insulation Class	Н
280\$	Enclosure	Totally Enclosed Fan Cooled
No Protection	Ambient Temperature	40 °C
NU317	Opp Drive End Bearing Size	6317
NO	CSA	NO
YES	IP Code	66
1	Efficiency Class	IE3
	50 Hz 74.6 A 1 91.8 % S1 280S No Protection NU317 NO	74.6 A Speed 1 Phase 91.8 % Power Factor S1 Insulation Class 280S Enclosure No Protection Ambient Temperature NU317 Opp Drive End Bearing Size NO CSA YES IP Code

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	8	Rotation	Bi-Directional
Mounting	В3	Motor Orientation	Horizontal
Drive End Bearing	С3	Opp Drive End Bearing	СЗ
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1090 mm	Frame Length	549 mm
Shaft Diameter	80 mm	Shaft Extension	170 mm
Assembly/Box Mounting	RHS		
Connection Drawing	8442000086	Outline Drawing	0228001110

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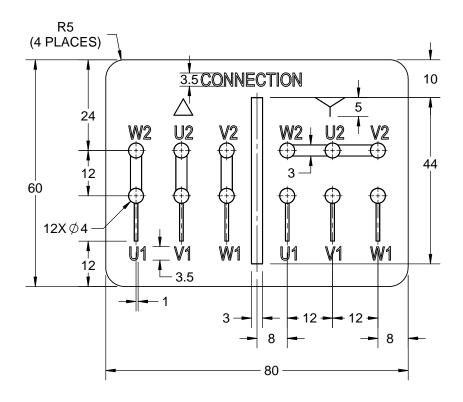


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DRAWING REVISION	REVISION BY SN	DATE 13/01/2016
A	SIN	13/01/2016
ECO	APPROVED BY	DATE
ECO-0116390	SBD	13/01/2016
ECO DESCRIPTION	•	

NEW DRAWING RELEASE

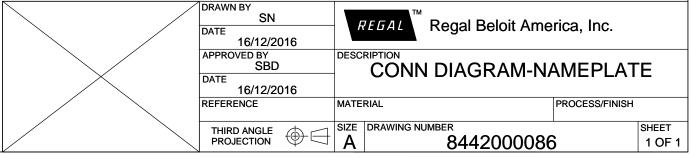
GENERAL TOLERANCE								
	>0~6	±0.1						
LINEAR DIM	>6~30	±0.2						
	>30~120	±0.3						



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.

8WD.864.1008







Model No. TCM0374A2113GAC011

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	37	50	74.6	742	480.01	IE3	-	91.8	91.8	92	0.78	0.73	0.61	6	2.1	2.4

Motor type	TCM	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	280S	
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	NU317 / 6317-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.	728	kg
Gross weight - approx.	763	kg
Motor inertia	3.2584	kgm ²
Load inertia	Customer to Provide	
Vibration level	2.2	mm/s
Noise level (1meter distance from mo	otor) 64	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 240mm²/2 x M63 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

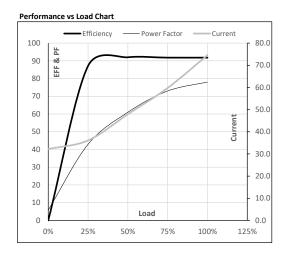




Model No. TCM0374A2113GAC011

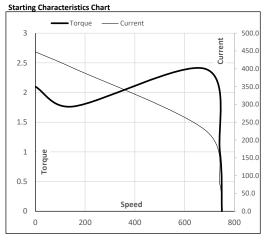
						n	ı	T	IE	Amb	Duty	Elevation	Inertia	Weight
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC 400	Δ	50	37	50.0	74.6	742	48.95	480.01	IE3	40	S1	1000	3.2584	728

Motor Load Da	ata						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	32.2	36.1	47.9	59.8	74.6	
Torque	Nm	0.0	119.1	238.7	359.0	480.0	
Speed	r/min	750	748	746	744	742	
Efficiency	%	0.0	87.1	92.0	91.8	91.8	
Power Factor	%	5.8	42.9	61.0	73.0	78.0	



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	150	683	742	750	
Current	Α	447.5	402.8	228.0	74.6	32.2	
Torque	pu	2.1	1.8	2.4	1	0	



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

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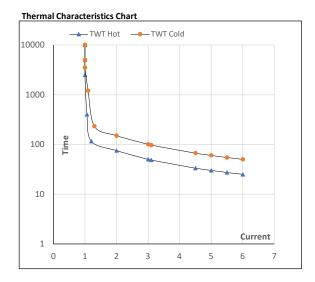




Model No. TCM0374A2113GAC011

Enclosure	U	Δ/Υ	f	Р	Р	ī	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	37	50	74.6	742	48.95	480.01	IE3	40	S1	1000	3.2584	728

Motor Speed Torque Data Load LR TWT Hot s 10000 75 30 27 25 TWT Cold s 10000 150 100 82 60 55 50 5.5 6___ Current pu 1 2 4



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

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