PRODUCT INFORMATION PACKET



Model No: TCM1104A2113GAC011 Catalog No: TCM1104A2113GAC011

TerraMAX® IE3, Mining Duty Motors, 110 kW, 3Ph, 8 Pole, 400/690V, B3, 50Hz, 355M Frame, TEFC



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Product Information Packet: Model No: TCM1104A2113GAC011, Catalog No:TCM1104A2113GAC011 TerraMAX® IE3, Mining Duty Motors, 110 kW, 3Ph, 8 Pole, 400/690V, B3, 50Hz, 355M Frame, TEFC



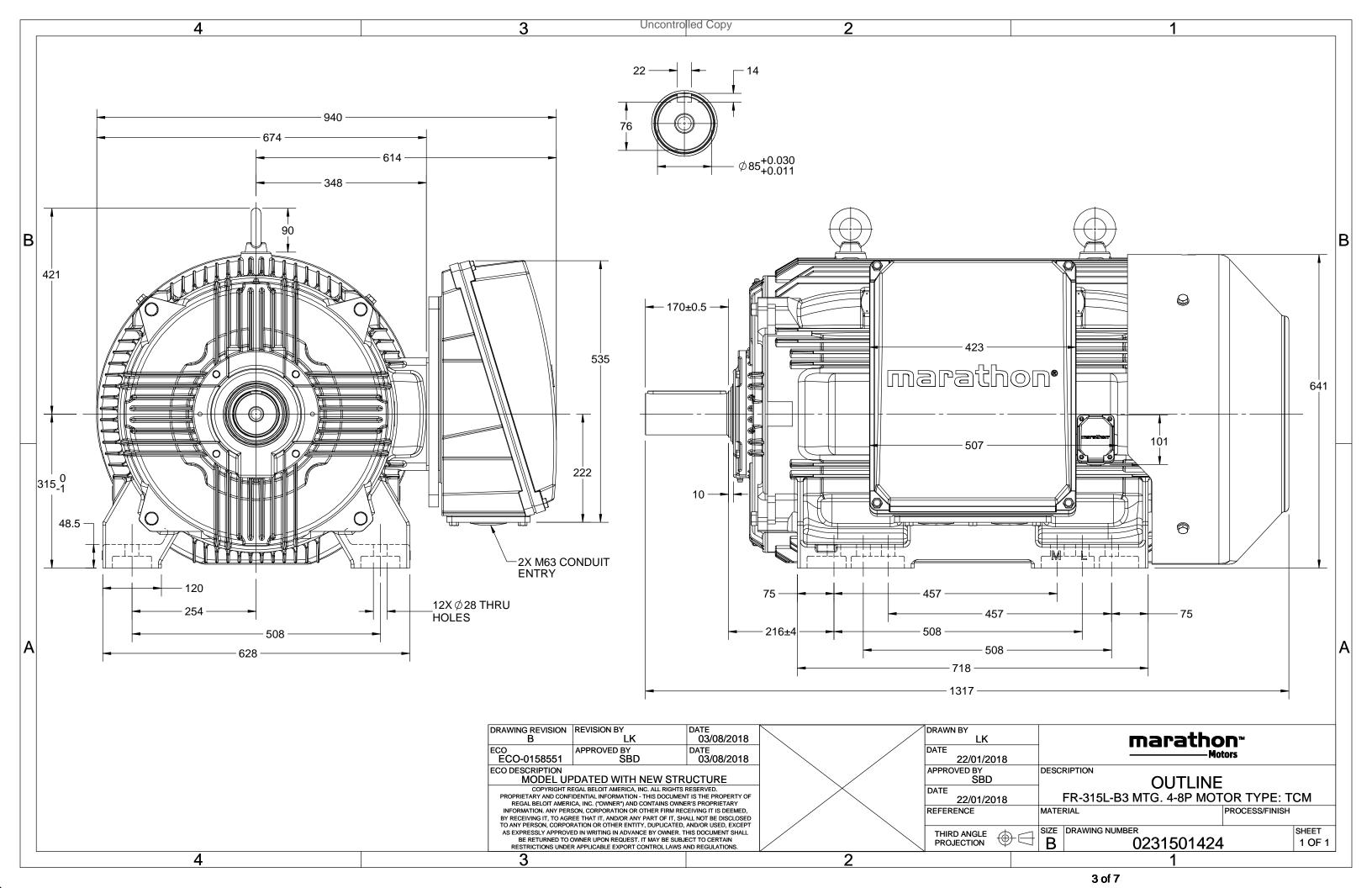
Nameplate Specifications

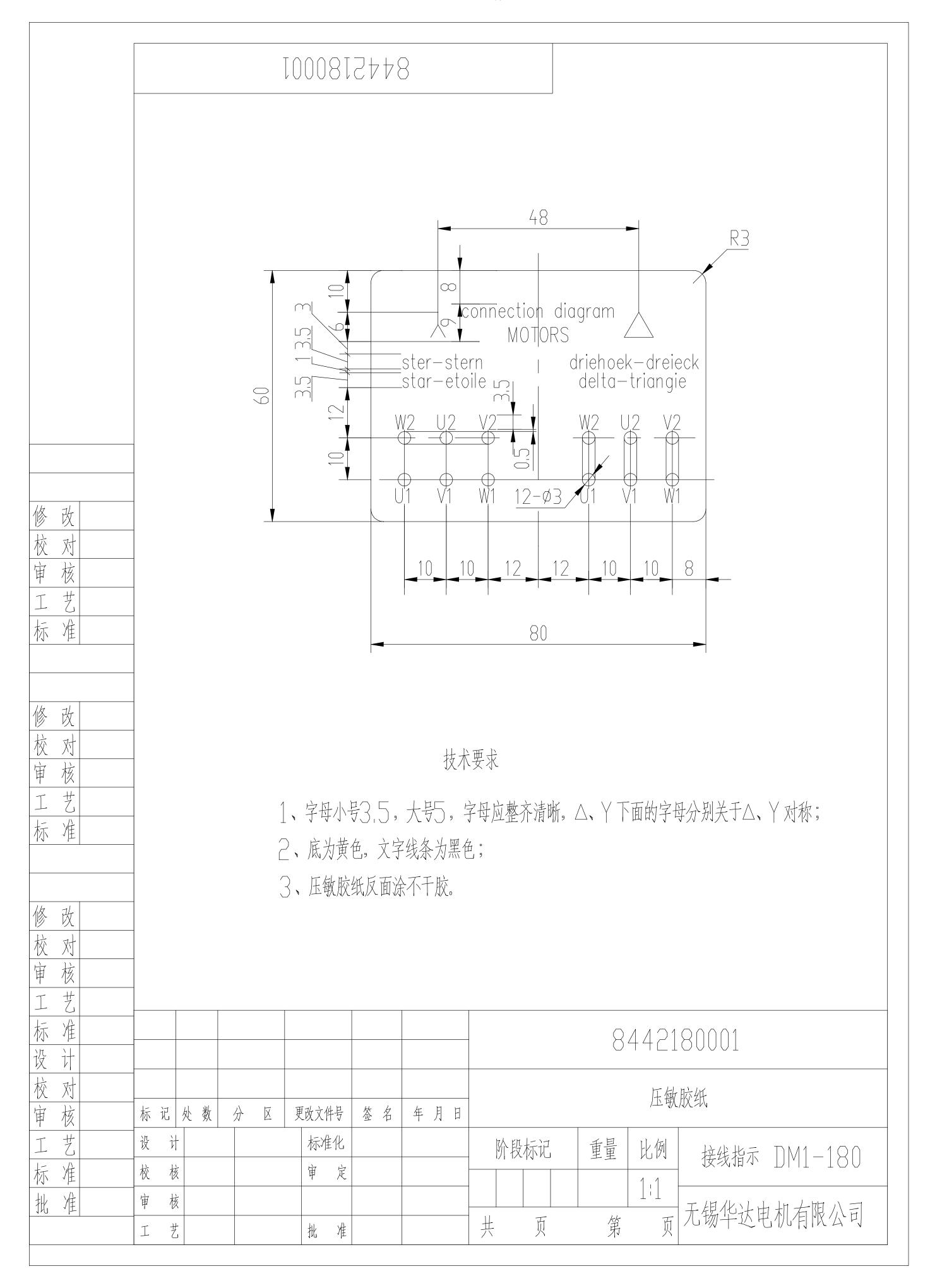
Output HP	150 Hp	Output KW	110.0 kW		
Frequency	50 Hz	Voltage	400/690 V		
Current	209.0 A	Speed	743 rpm		
Service Factor	1	Phase	3		
Efficiency	93.7 %	Power Factor	0.81		
Duty	S1	Insulation Class	Н		
Frame	355M	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Ambient Temperature	40 °C		
Drive End Bearing Size	NU319	Opp Drive End Bearing Size	6319		
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	B3	Motor Orientation	Horizontal
Drive End Bearing	СЗ	Opp Drive End Bearing	СЗ
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1317 mm	Frame Length	729 mm
Shaft Diameter	85 mm	Shaft Extension	170 mm
Assembly/Box Mounting	RHS		
Outline Drawing	0231501424	Connection Drawing	8442180001

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Model No. TCM1104A2113GAC011

U	Δ/Υ	f	Р	Р	1	n	T	IE	IE % EFF at load			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	110	150	209.0	743	1439.37	IE3	-	93.7	93.7	94.2	0.81	0.76	0.66	6	1.5	2.5

Motor type	TCM	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	355M	
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	e) 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	NU319 / 6319-C3	
Lubrication method	Regreasable	
Type of grease	CHEVRON SRI-2 or Equivalent	
Type of grease	CHEVILOR SIN 2 OF Equivalent	

Degree of protection	IP 66	
Mounting type	IM B3	
Cooling method	IC 411	
Motor weight - approx.	1566	kg
Gross weight - approx.	1611	kg
Motor inertia	7.8323	kgm^2
Load inertia	Customer to Provide	
Vibration level	2.8	mm/s
Noise level (1meter distance from mo	otor) 65	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 300mm²/4 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

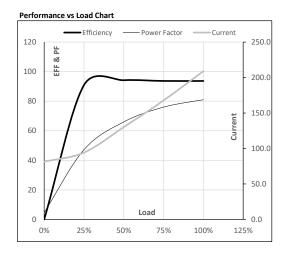




Model No. TCM1104A2113GAC011

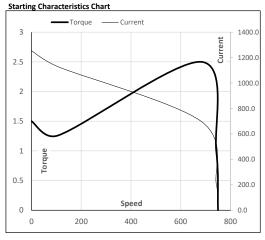
Enclosure	U	Δ/Υ	f	Р	Р	ı	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	110	150.0	209.0	743	146.77	1439.37	IE3	40	S1	1000	7.8323	1566

Motor Load Data 5/4FL Load Point NL 1/4FL 1/2FL 3/4FL FL 130.2 209.0 Current 81.3 94.2 167.8 Torque Nm 0.0 357.1 715.9 1076.6 1439.4 Speed r/min 750 746 745 Efficiency 90.9 94.2 93.7 93.7 0.0 Power Factor 66.0 4.6 47.2 76.0 81.0



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	107	684	743	750	
Current	Α	1254.0	1128.6	697.2	209.0	81.3	
Torque	pu	1.5	1.3	2.5	1	0	



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

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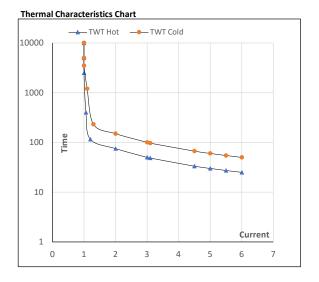




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Enclosure	U	Δ/Υ	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
TEFC	400	Δ	50	110	150	209.0	743	146.77	1439.37	IE3	40	S1	1000	7.8323	1566

Motor Speed Torque Data LR Load 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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