PRODUCT INFORMATION PACKET



Model No: TCM2001A2113GAC011 Catalog No: TCM2001A2113GAC011

TerraMAX® IE3, Mining Duty Motors, 200 kW, 3Ph, 2 Pole, 400/690V, B3, 50Hz, 315L Frame, TEFC



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Product Information Packet: Model No: TCM2001A2113GAC011, Catalog No:TCM2001A2113GAC011 TerraMAX® IE3, Mining Duty Motors, 200 kW, 3Ph, 2 Pole, 400/690V, B3, 50Hz, 315L Frame, TEFC



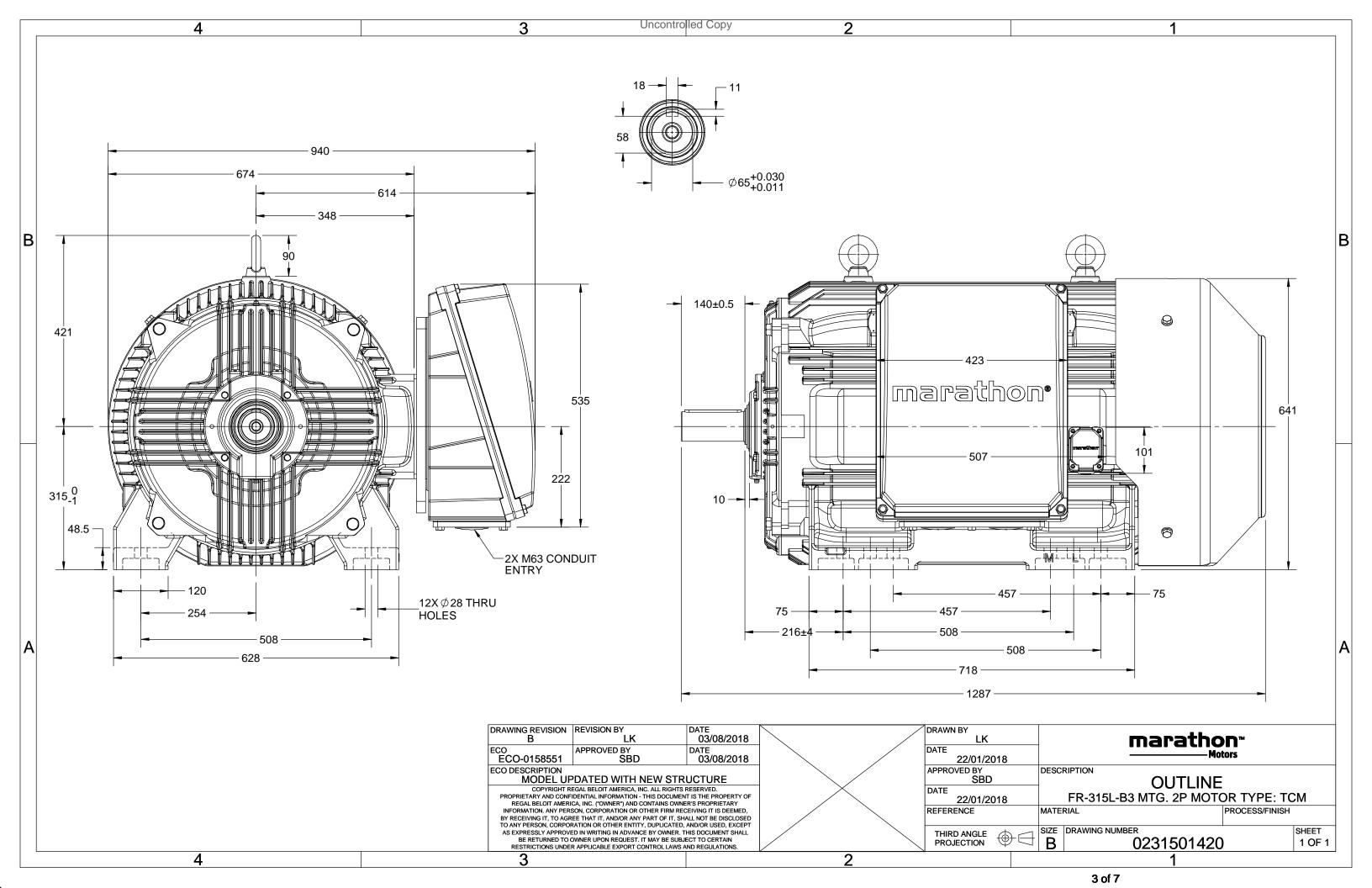
Nameplate Specifications

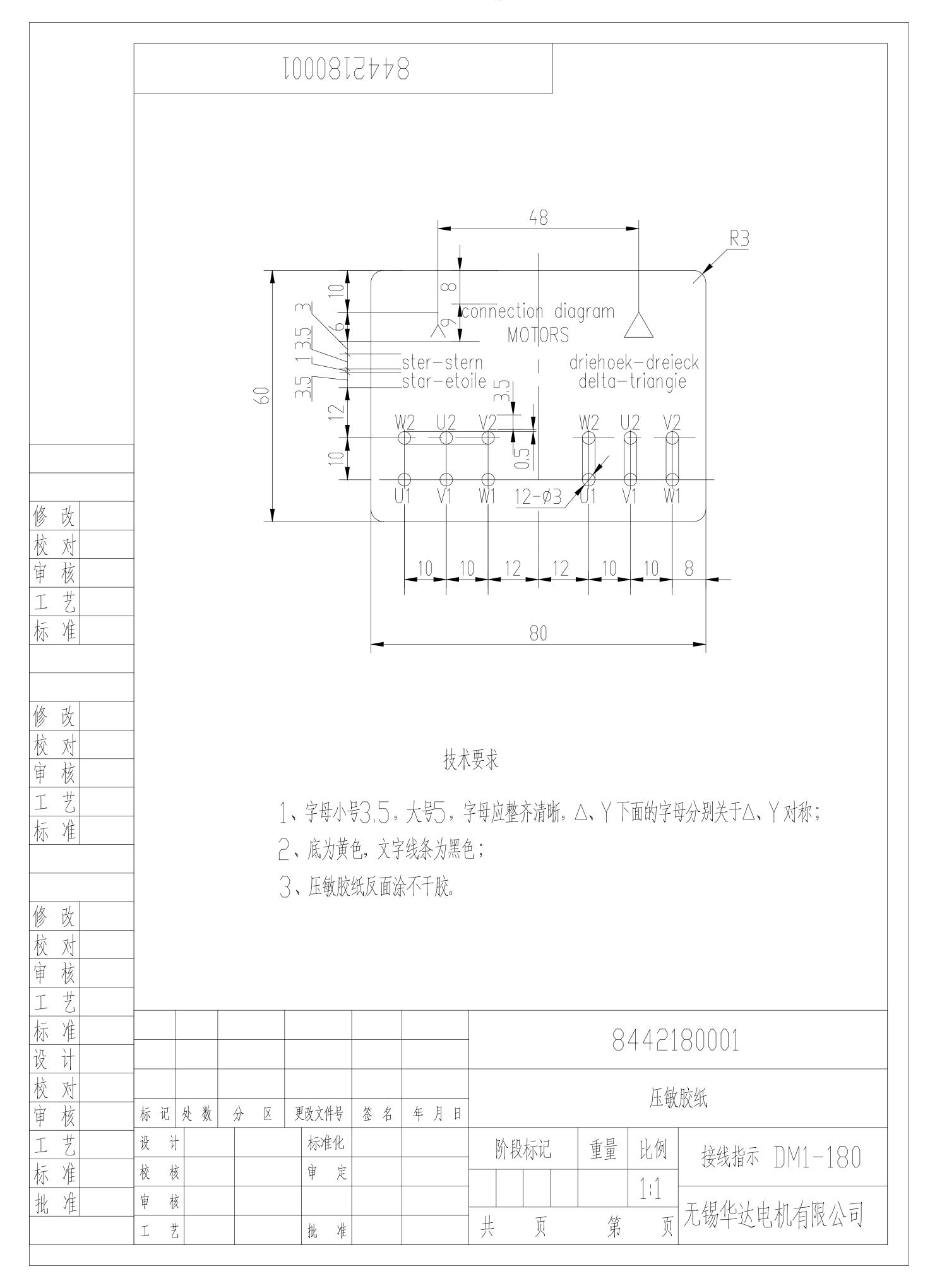
Output HP	270 Hp	Output KW	200.0 kW
Frequency	50 Hz	Voltage	400/690 V
Current	339.0 A	Speed	2984 rpm
Service Factor	1	Phase	3
Efficiency	95.8 %	Power Factor	0.89
Duty	S 1	Insulation Class	Н
Frame	315L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6316	Opp Drive End Bearing Size	6316
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	2	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	1287 mm	Frame Length	729 mm
Shaft Diameter	65 mm	Shaft Extension	140 mm
Assembly/Box Mounting	RHS		
Outline Drawing	0231501420	Connection Drawing	8442180001

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U	Δ/Υ	f	Р	Р	1	n	Т	IE	9	6 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	200	270	339.0	2984	644.39	IE3	-	95.8	95.8	94.6	0.89	0.87	8.0	7.3	2.3	3.6

Motor type	TCM	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	315L	
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 resistan	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	6316-C3 / 6316-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.	1245	kg
Gross weight - approx.	1290	kg
Motor inertia	3.0911	kgm²
Load inertia	Customer to Provide	
Vibration level	2.8	mm/s
Noise level (1meter distance from mot	or) 83	dB(A)
No. of starts hot/cold/Equally spread	2/3/4	
Starting method	DOL	
Type of coupling	Direct	
LR withstand time (hot/cold)	22/45	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 300mm²/2 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

 $T_{\mbox{\scriptsize K}}/T_{\mbox{\scriptsize N}}$ - 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

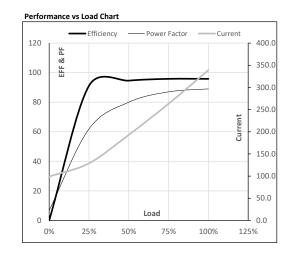




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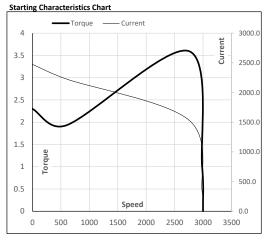
	U Δ/	1 1	Р	Р	ı	n	T	T	IE	Amb	Duty	Elevation	Inertia	Weight
(V)	V) Con	n [Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC 400	00 Δ	50	200	270.0	339.0	2984	65.71	644.39	IE3	40	S1	1000	3.0911	1245

Motor Load Da	ata						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	98.9	128.9	193.1	263.2	339.0	
Torque	Nm	0.0	160.4	321.3	482.6	644.4	
Speed	r/min	3000	2996	2992	2988	2984	
Efficiency	%	0.0	91.1	94.6	95.8	95.8	
Power Factor	%	6.8	61.9	80.0	87.0	89.0	



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	600	2745	2984	3000	
Current	Α	2474.7	2227.2	1541.9	339.0	98.9	
Torque	pu	2.3	1.9	3.6	1	0	



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

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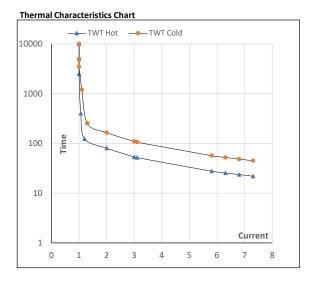




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Enclosure	U	Δ/Υ	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
TEFC	400	Δ	50	200	270	339.0	2984	65.71	644.39	IE3	40	S1	1000	3.0911	1245

Motor Spee	d Torq	ue Data						
Load		FL	l ₁	l ₂	I ₃	I ₄	I ₅	LR
TWT Hot	S	10000	80	54	42	35	26	22
TWT Cold	S	10000	164	110	82	65	54	45
Current	pu	1	2	3	4	5	6	7.3



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

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