PRODUCT INFORMATION PACKET



Model No: TCM1102A2113GAC011 Catalog No: TCM1102A2113GAC011

TerraMAX® IE3, Mining Duty Motors, 110 kW, 3Ph, 4 Pole, 400/690V, B3, 50Hz, 315S Frame, TEFC



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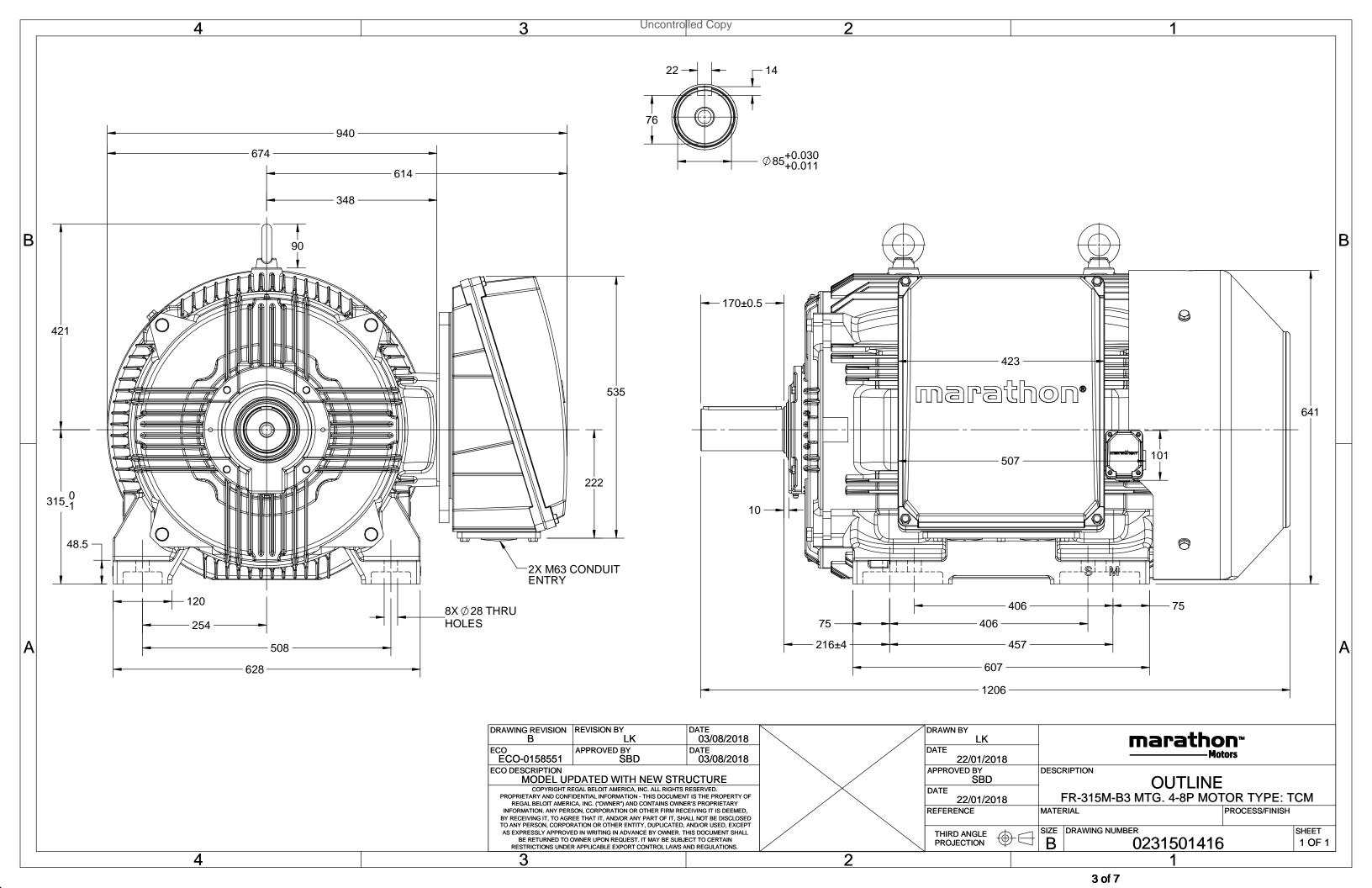
Nameplate Specifications

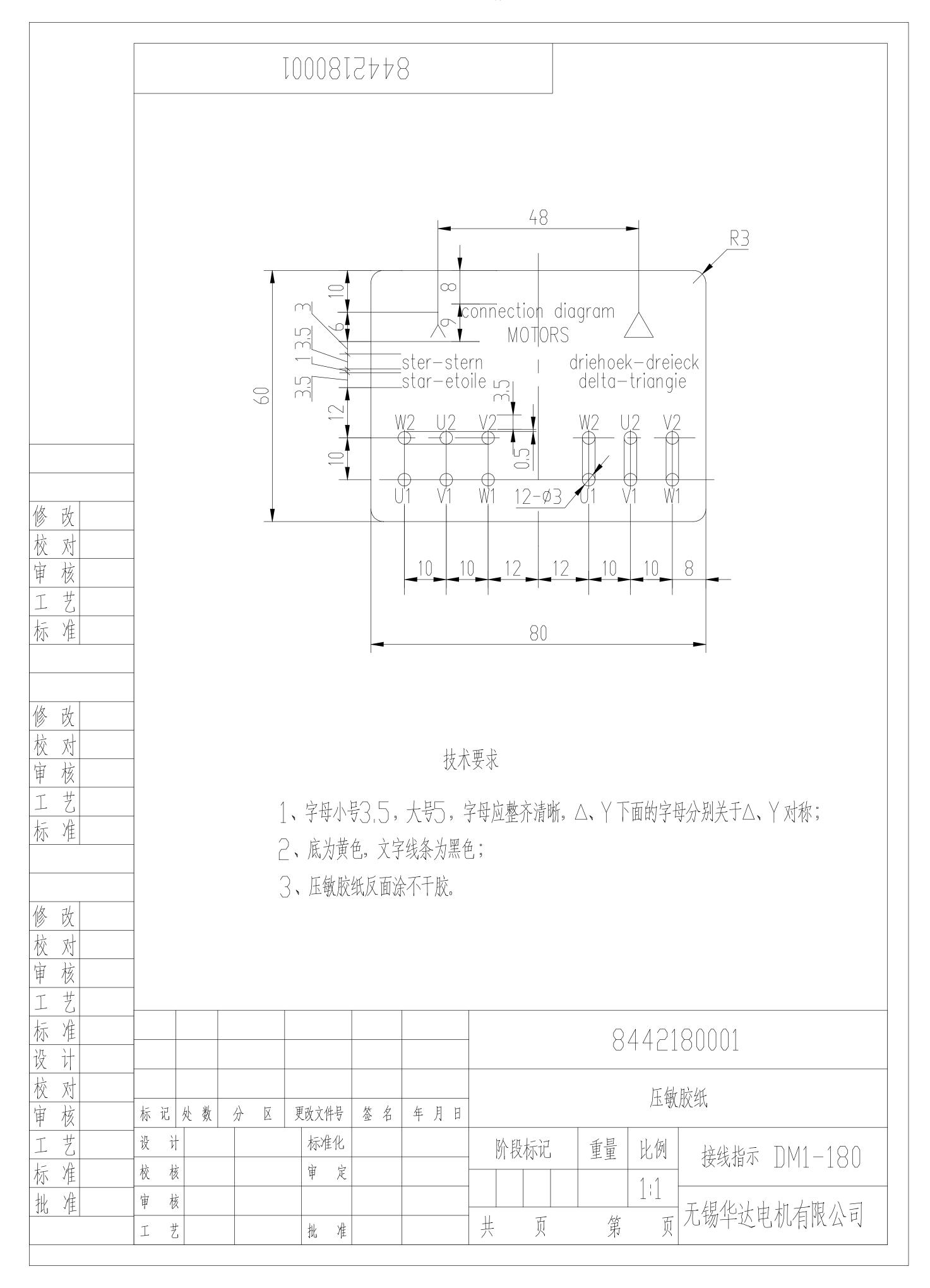
Output HP	150 Hp	Output KW	110.0 kW		
Frequency	50 Hz	Voltage	400/690 V		
Current	189.0 A	Speed	1487 rpm		
Service Factor	1	Phase	3		
Efficiency	95.4 %	Power Factor	0.88		
Duty	S 1	Insulation Class	Н		
Frame	315S	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Ambient Temperature	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	4	Rotation	Bi-Directional
Mounting	B3	Motor Orientation	Horizontal
Drive End Bearing	СЗ	Opp Drive End Bearing	С3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1206 mm	Frame Length	729 mm
Shaft Diameter	85 mm	Shaft Extension	170 mm
Assembly/Box Mounting	RHS		
Outline Drawing	0231501416	Connection Drawing	8442180001

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U	Δ/Υ	f	Р	Р	1	n	T	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	Δ	50	110	150	189.1	1487	718.2	IE3	-	95.4	95.4	95	0.88	0.85	0.78	6.5	1.9	2.9

TCM	
TEFC	
Cast Iron	
315S	
S1	
± 10%	
± 5%	
10%	
N	
1.15	
Н	
-20 to +40	°C
80 [Class B]	K
1000	meter
NA	
NA	
NA	
NA	
Aluminum Die cast	
Anti-friction ball	
NU319 / 6319-C3	
Regreasable	
HEVRON SRI-2 or Equivalent	
	TEFC Cast Iron 315S S1 ± 10% ± 5% 10% N 1.15 H -20 to +40 80 [Class B] 1000 NA

Degree of protection	IP 66	
Mounting type	IM B3	
Cooling method	IC 411	
Motor weight - approx.	973	kg
Gross weight - approx.	1018	kg
Motor inertia	3.4482	kgm ²
Load inertia	Customer to Provide	
Vibration level	2.8	mm/s
Noise level (1meter distance from mo	tor) 69	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 300mm²/2 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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 $[\]ensuremath{^{*}}$ Voltage, Frequency and combine variation are as per IEC60034-1

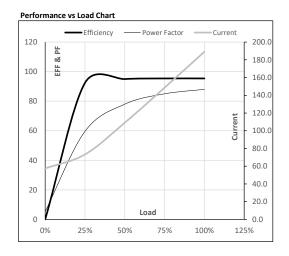




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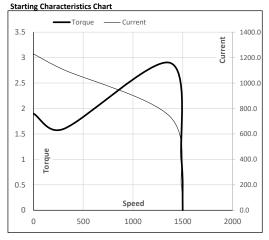
		•	P P	Р	ı	n	T	Т	IE	Amb	Duty	Elevation	Inertia	Weight
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC 400	Δ	50	110	150.0	189.1	1487	73.24	718.20	IE3	40	S1	1000	3.4482	973

Motor Load Data 5/4FL Load Point NL 1/4FL 1/2FL 3/4FL FL 109.1 Current 57.5 73.3 148.6 189.1 Torque Nm 0.0 178.4 357.5 537.4 718.2 Speed r/min 1500 1497 1494 1491 1487 Efficiency 95.0 95.4 95.4 0.0 92.4 Power Factor 59.6 78.0 85.0 5.3 88.0



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	300	1368	1487	1500	
Current	Α	1229.3	1106.4	739.7	189.1	57.5	
Torque	nu	19	1.6	29	1	0	



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

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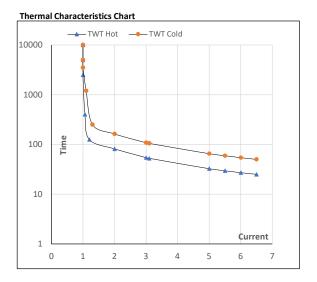




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Enclosure	U	Δ/Υ	f	Р	Р	ı	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	110	150	189.1	1487	73.24	718.20	IE3	40	S1	1000	3.4482	973

Motor Speed	Motor Speed Torque Data													
Load		FL	l ₁	l ₂	l ₃	I ₄	I ₅	LR						
TWT Hot	S	10000	81	54	40	33	27	25						
TWT Cold	S	10000	163	108	82	65	54	50						
Current	nu	1	2	3	4	5	6	6.5						



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

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