PRODUCT INFORMATION PACKET



Model No: TCM2802A2113GAC011 Catalog No: TCM2802A2113GAC011

TerraMAX® IE3, Mining Duty Motors, 280 kW, 3Ph, 4 Pole, 400/690V, B3, 50Hz, 355L Frame, TEFC



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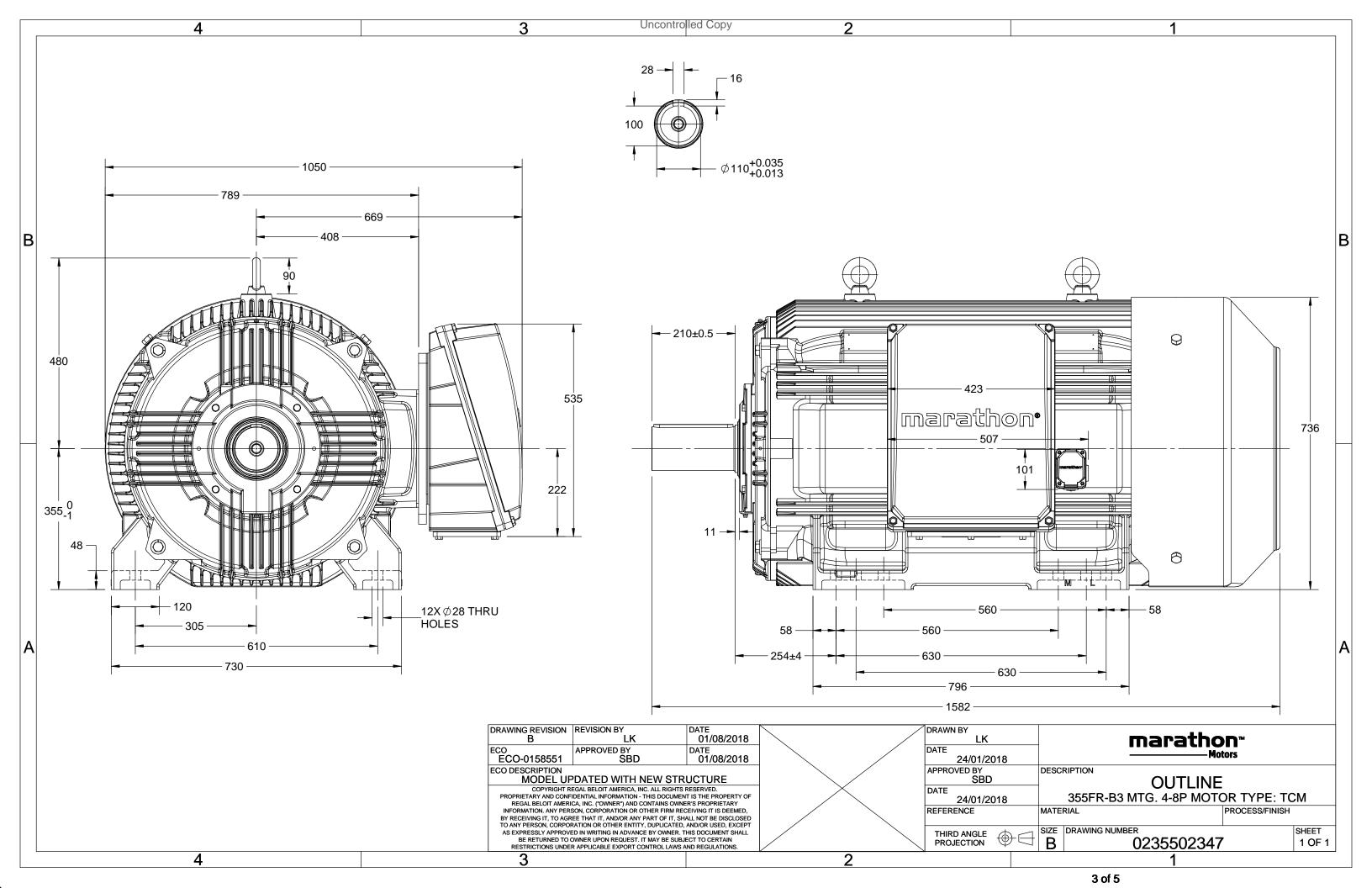
Nameplate Specifications

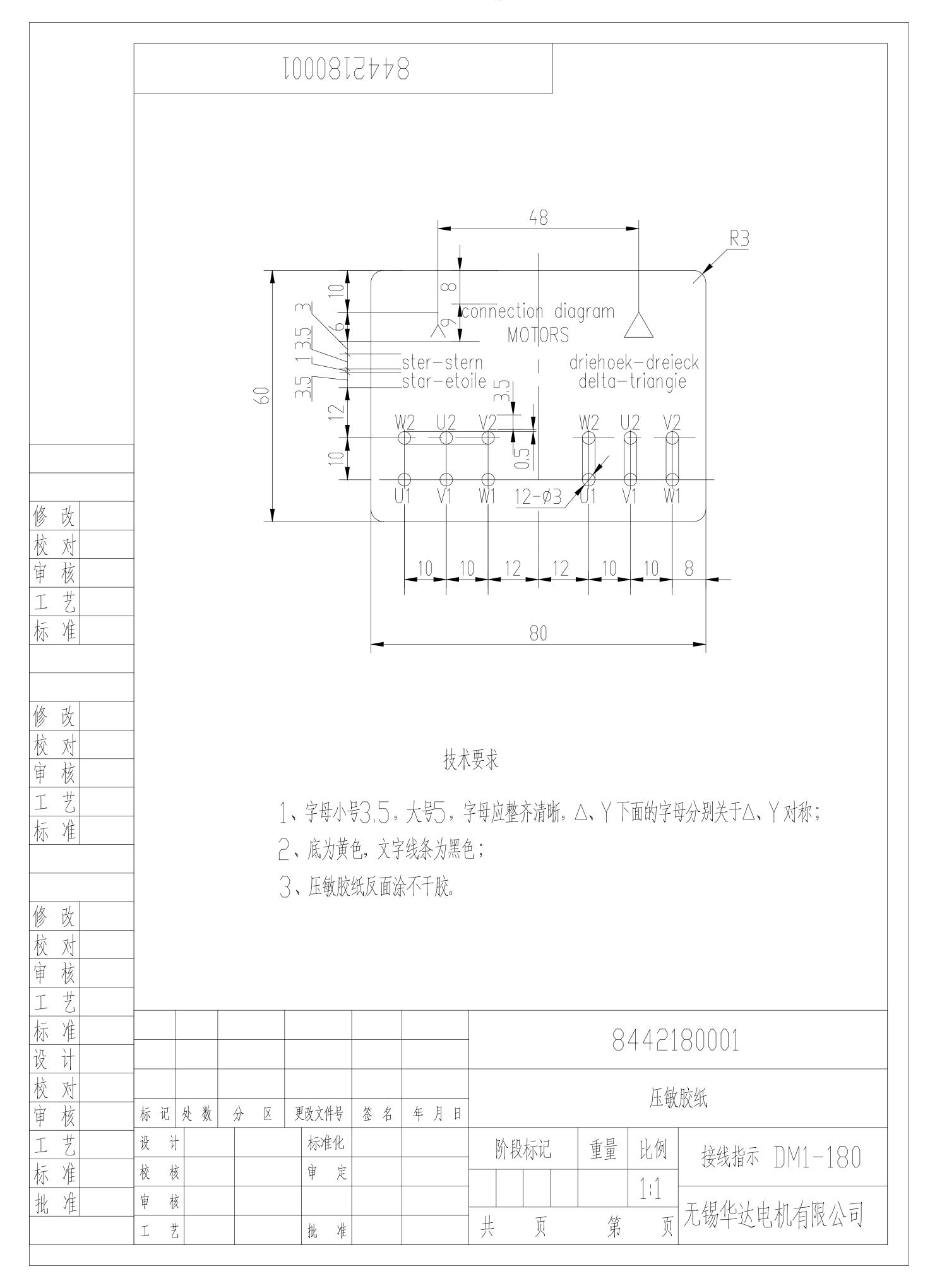
Output HP	375 Hp	Output KW	280.0 kW		
Frequency 50 Hz		Voltage	400/690 V		
Current	496.0 A	Speed	1489 rpm		
Service Factor	1	Phase	3		
Efficiency	96 %	Power Factor	0.89		
Duty	S1 Insulation Class		Н		
Frame	355L	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Ambient Temperature	40 °C		
Drive End Bearing Size	NU324	Opp Drive End Bearing Size	6322		
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	В3	Motor Orientation	Horizontal		
Drive End Bearing	С3	Opp Drive End Bearing	СЗ		
Frame Material	Cast Iron	Shaft Type	Keyed		
Overall Length	1582 mm	Frame Length	1010 mm		
Shaft Diameter	110 mm	Shaft Extension	210 mm		
Assembly/Box Mounting	RHS				
Connection Drawing	8442180001	Outline Drawing	0235502347		

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Model No. TCM2802A2113GAC011

U	Δ/Υ	f	Р	Р	1	n	Т	IE	9	6 EFF a	t 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	280	375	496.0	1489	1806	IE3	-	96	96	95.9	0.89	0.81	0.76	6.7	2.3	3.1

Motor type	TCM	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	355L	
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	NU324 / 6322-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.	1886	kg		
Gross weight - approx.	1931	kg		
Motor inertia	10.1755	kgm ²		
Load inertia	Customer to Provide			
Vibration level	2.8	mm/s		
Noise level (1meter distance from moto	r) 82	dB(A)		
No. of starts hot/cold/Equally spread	2/3/4			
Starting method	DOL			
Type of coupling	Direct			
LR withstand time (hot/cold)	15/30	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