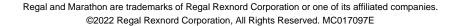
# PRODUCT INFORMATION PACKET



Model No: TCM2801A2113GAC011 Catalog No: TCM2801A2113GAC011

TerraMAX® IE3, Mining Duty Motors, 280 kW, 3Ph, 2 Pole, 400/690V, B3, 50Hz, 355L Frame, TEFC







Product Information Packet: Model No: TCM2801A2113GAC011, Catalog No:TCM2801A2113GAC011 TerraMAX® IE3, Mining Duty Motors, 280 kW, 3Ph, 2 Pole, 400/690V, B3, 50Hz, 355L Frame, TEFC



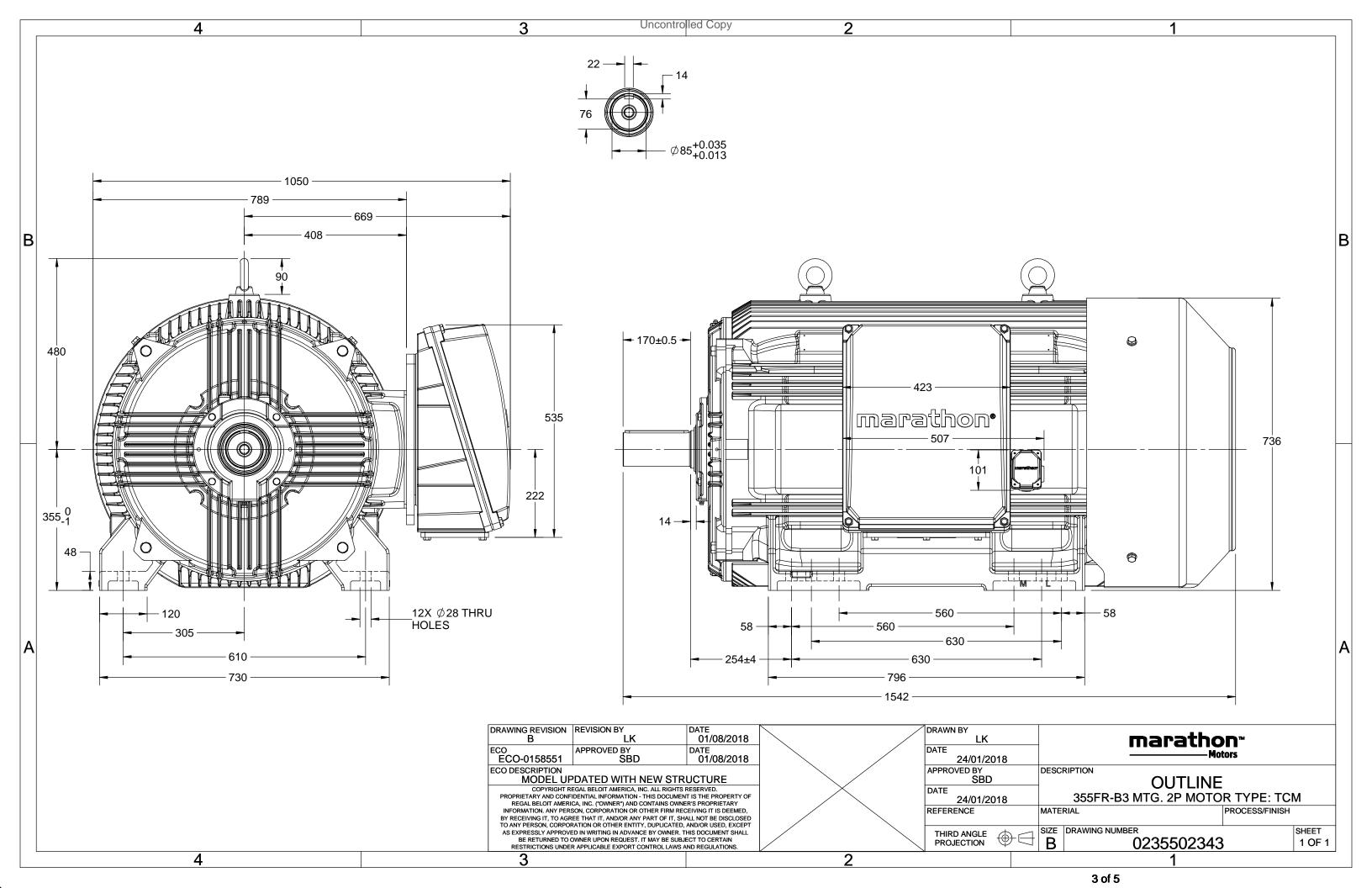
### Nameplate Specifications

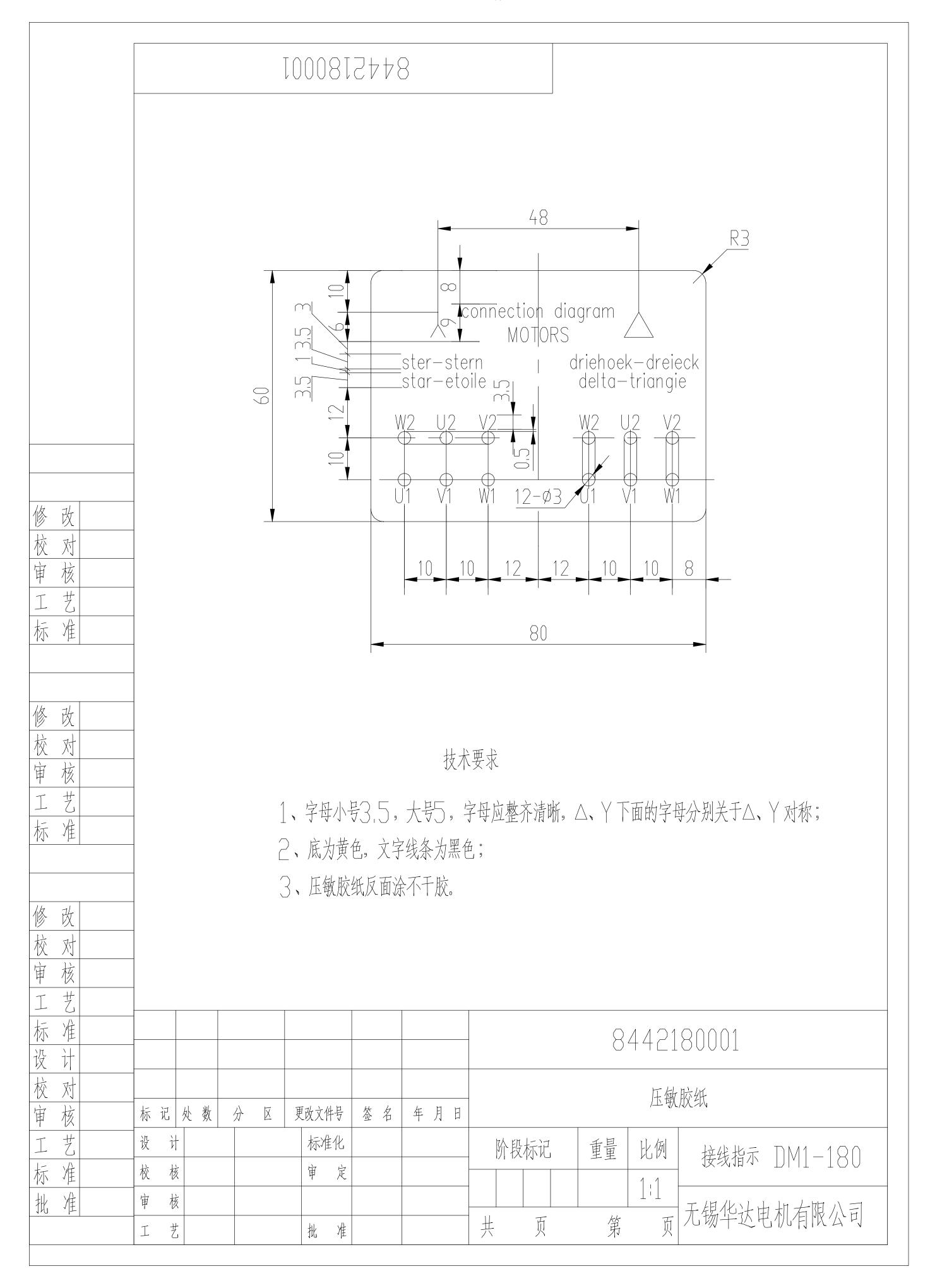
Output HP	375 Hp	Output KW	280.0 kW
Frequency	50 Hz	Voltage	400/690 V
Current	491.6 A	Speed	2984 rpm
Service Factor	1	Phase	3
Efficiency	95.8 %	Power Factor	0.89
Duty	<b>S</b> 1	Insulation Class	Н
Frame	355L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6319	Opp Drive End Bearing Size	6317
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	В3	Motor Orientation	Horizontal
Drive End Bearing	С3	Opp Drive End Bearing	C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1542 mm	Frame Length	1010 mm
Shaft Diameter	85 mm	Shaft Extension	170 mm
Assembly/Box Mounting	RHS		
Outline Drawing	0235502343	Connection Drawing	8442180001

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### Model No. TCM2801A2113GAC011

U	Δ/Υ	f	Р	Р	I	n	Т	IE	9	% EFF a	t load	l	PF	at lo	ad	I <sub>A</sub> /I <sub>N</sub>	$T_A/T_N$	$T_K/T_N$
(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	492.0	2984	892	IE3	-	95.8	95.8	94.1	0.89	0.86	0.77	8	2.3	3.6

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	6319-C3 / 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.	1828	kg
Gross weight - approx.	1873	kg
Motor inertia	4.7428	kgm²
Load inertia	Customer to Provide	
Vibration level	2.8	mm/s
Noise level ( 1meter distance from mo	tor) 90	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

REGAL

<sup>\*</sup> Voltage, Frequency and combine variation are as per IEC60034-1