PRODUCT INFORMATION PACKET



Model No: TCM0753A2113GAC011 Catalog No: TCM0753A2113GAC011

TerraMAX® IE3, Mining Duty Motors, 75 kW, 3Ph, 6 Pole, 400/690V, B3, 50Hz, 315S Frame, TEFC



Regal and Marathon are trademarks of Regal Rexnord Corporation or one of its affiliated companies.

©2022 Regal Rexnord Corporation, All Rights Reserved. MC017097E



Product Information Packet: Model No: TCM0753A2113GAC011, Catalog No:TCM0753A2113GAC011 TerraMAX® IE3, Mining Duty Motors, 75 kW, 3Ph, 6 Pole, 400/690V, B3, 50Hz, 315S Frame, TEFC



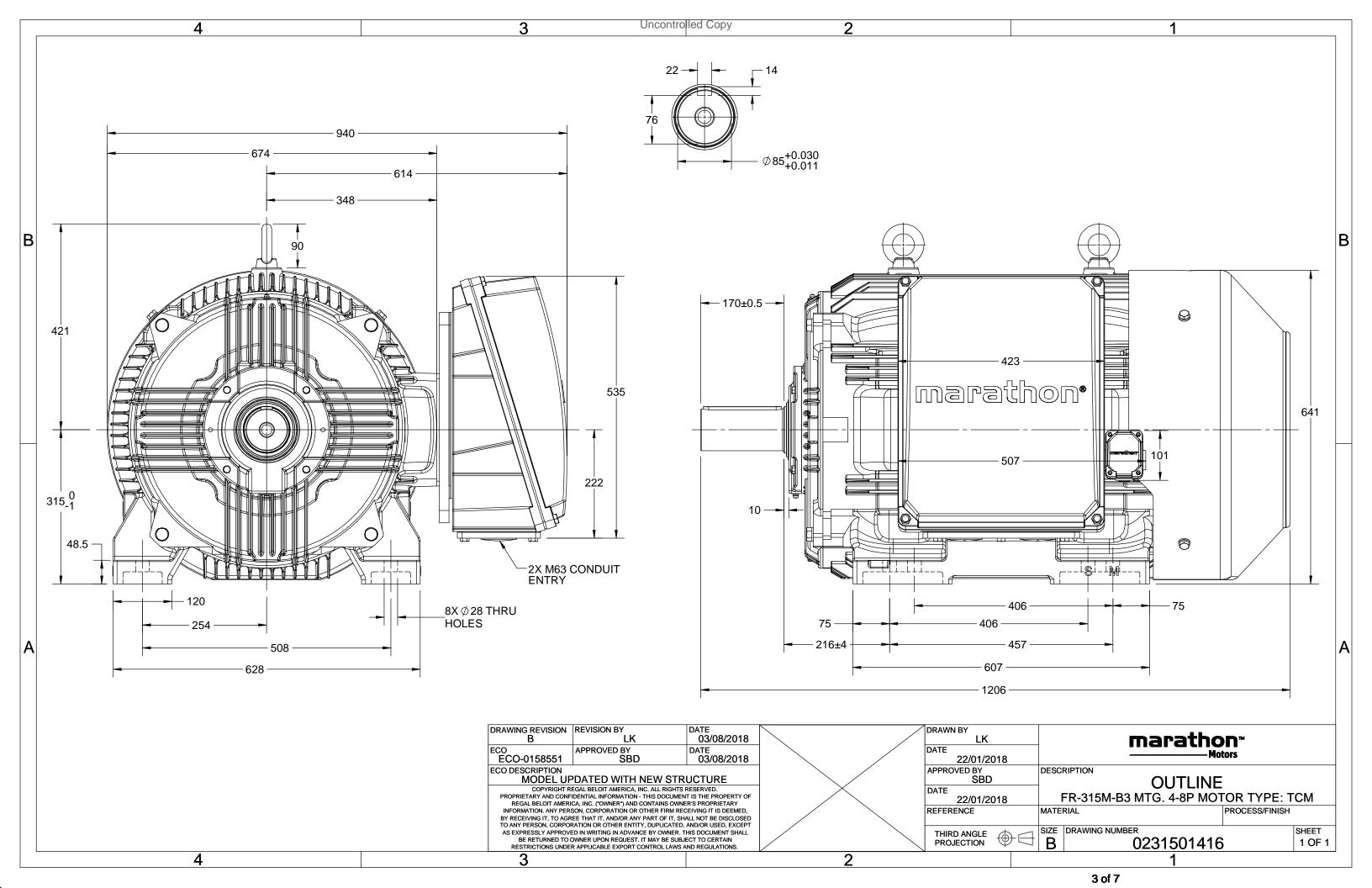
Nameplate Specifications

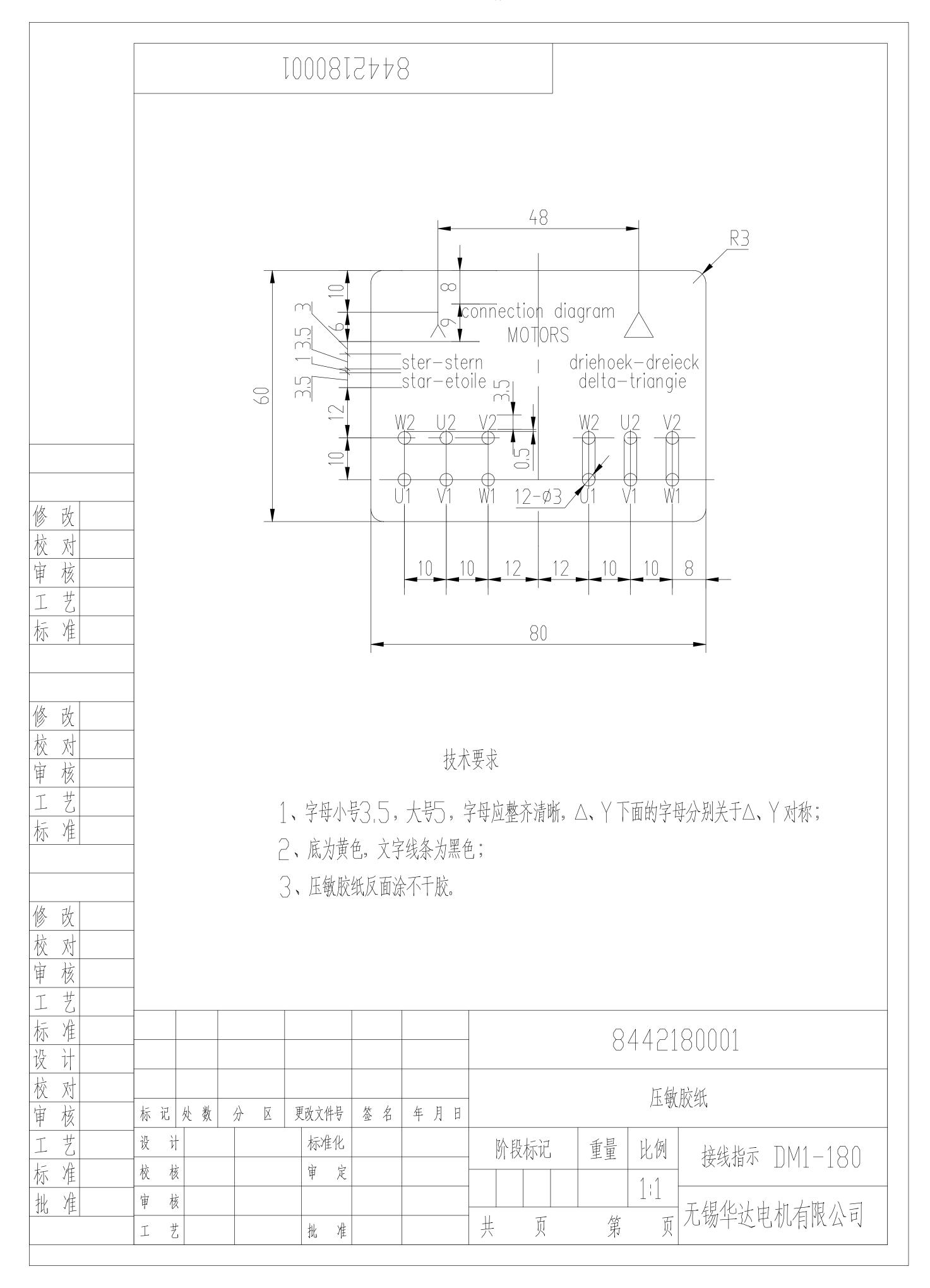
Output HP	100 Hp Output KW	Output KW	75.0 kW
Frequency	50 Hz	Voltage	400/690 V
Current	141.0 A	Speed	989 rpm
Service Factor	1	Phase	3
Efficiency	94.6 %	Power Factor	0.81
Duty	S 1	Insulation Class	Н
Frame	315S	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °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	6	Rotation	Bi-Directional
Mounting	B3	Motor Orientation	Horizontal
Drive End Bearing	C3	Opp Drive End Bearing	СЗ
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

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:12/02/2022









Model No. TCM0753A2113GAC011

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	75	100	141.3	989	719.95	IE3	-	94.6	94.6	94.4	0.81	0.77	0.67	5.1	1.6	2.2

Motor type	TCM	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	315S	
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	NU319 / 6319-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.	831	kg
Gross weight - approx.	876	kg
Motor inertia	3.3734	kgm^2
Load inertia	Customer to Provide	
Vibration level	2.8	mm/s
Noise level (1meter distance from mo	otor) 66	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

REGAL

^{*} Voltage, Frequency and combine variation are as per IEC60034-1

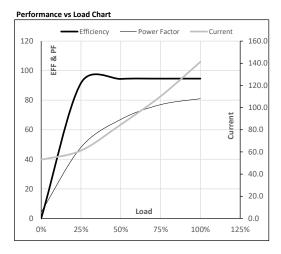




Model No. TCM0753A2113GAC011

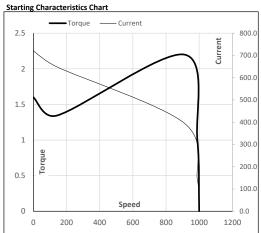
6.0							1		IE	Amb	Duty	Elevation	Inertia	Weight
(V)	Conn [Hz] [[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC 400	Δ .	50	75	100.0	141.3	989	73.41	719.95	IE3	40	S1	1000	3.3734	831

Motor Load Da	ata						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	52.9	61.2	84.7	110.2	141.3	
Torque	Nm	0.0	178.5	358.0	538.4	720.0	
Speed	r/min	1000	998	995	992	989	
Efficiency	%	0.0	91.6	94.4	94.6	94.6	
Power Factor	%	4.3	48.1	67.0	77.0	81.0	



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	143	910	989	1000	
Current	Α	720.5	648.5	396.1	141.3	52.9	
Torque	pu	1.6	1.3	2.2	1	0	



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

Issued By Issued Date

REGAL

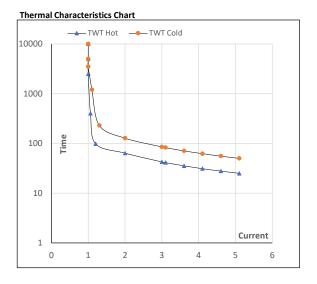




Model No. TCM0753A2113GAC011

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	75	100	141.3	989	73.41	719.95	IE3	40	S1	1000	3.3734	831

Motor Speed Torque Data Load LR TWT Hot s 10000 64 43 26 25 TWT Cold s 10000 128 85 67 58 51 50 4.5 5 5.1___ Current pu 1 2 4



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

Issued By Issued Date

REGAL