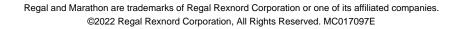
PRODUCT INFORMATION PACKET



Model No: TCM0754A2113GAC011 Catalog No: TCM0754A2113GAC011

TerraMAX® IE3, Mining Duty Motors, 75 kW, 3Ph, 8 Pole, 400/690V, B3, 50Hz, 315S Frame, TEFC







Product Information Packet: Model No: TCM0754A2113GAC011, Catalog No:TCM0754A2113GAC011 TerraMAX® IE3, Mining Duty Motors, 75 kW, 3Ph, 8 Pole, 400/690V, B3, 50Hz, 315S Frame, TEFC



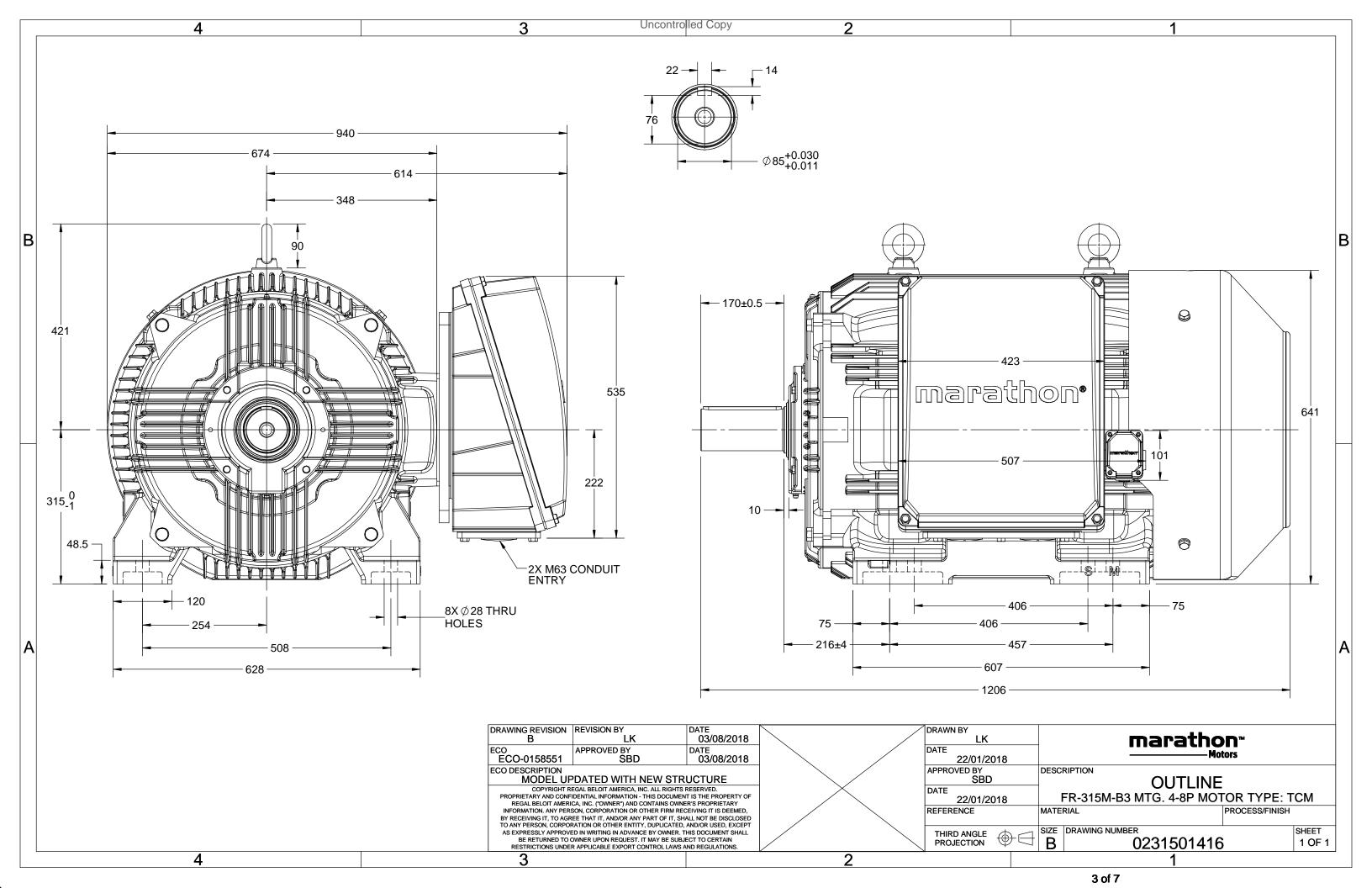
Nameplate Specifications

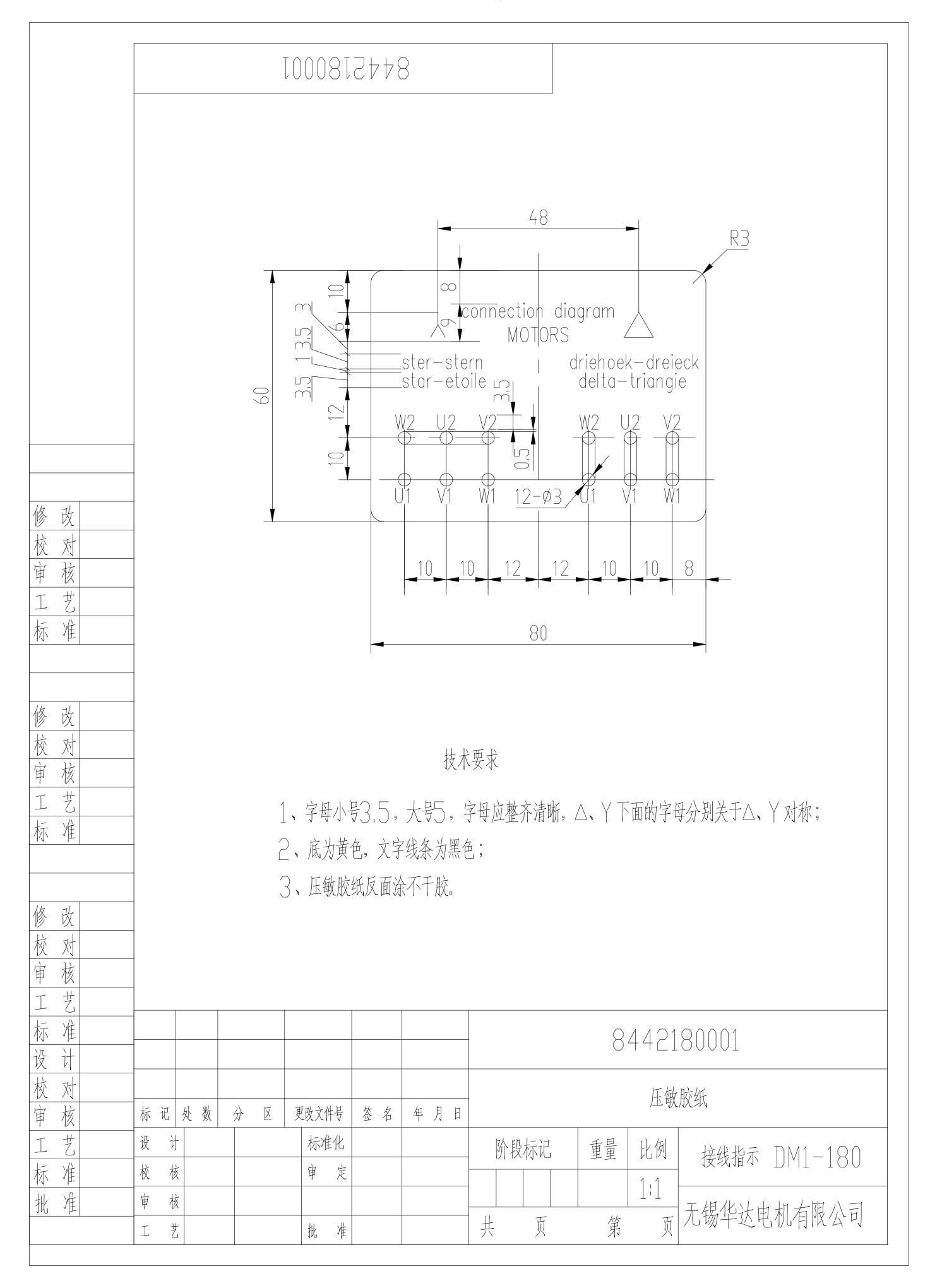
Output HP	100 Hp	Output KW	75.0 kW
Frequency	50 Hz	Voltage	400/690 V
Current	159.0 A	Speed	743 rpm
Service Factor	1	Phase	3
Efficiency	93.1 %	Power Factor	0.73
Duty	S 1	Insulation Class	Н
Frame	3158	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	NU319	Opp Drive End Bearing Size	6319
UL	NO	CSA	NO
CE	YES	IP Code	66

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	8	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	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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Model No. TCM0754A2113GAC011

U	Δ/Υ	f	Р	Р	I	n	T	IE	% EFF at load			PF at load			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	159.3	743	959.68	IE3	-	93.1	93.1	92.1	0.73	0.67	0.55	4.8	1.9	2.1

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	
VRON SRI-2 or Equivalent	
	TEFC Cast Iron 315S S1 ±10% ±5% 10% N 1.15 H -20 to +40 80 [Class B] 1000 NA NA NA NA Aluminum die cast Anti-friction ball NU319 / 6319-C3

Degree of protection	IP 66	
Mounting type	IM B3	
Cooling method	IC 411	
Motor weight - approx.	909	kg
Gross weight - approx.	954	kg
Motor inertia	4.8296	kgm²
Load inertia	Customer to Provide	
Vibration level	2.8	mm/s
Noise level (1meter distance from m	notor) 64	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

 $T_{\mbox{\scriptsize K}}/T_{\mbox{\scriptsize N}}$ - 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 1359:5:200)4 -	IEC:60034-30-1

REGAL

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

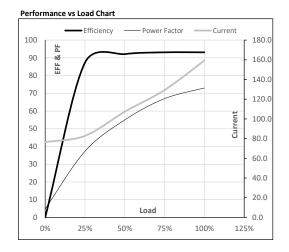




Model No. TCM0754A2113GAC011

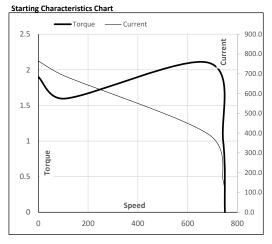
Enclosure	U	Δ/Υ	f	Р	Р	ı	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	75	100.0	159.3	743	97.86	959.68	IE3	40	S1	1000	4.8296	909

Motor Load Da	ata						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	76.4	82.8	107.3	129.3	159.3	
Torque	Nm	0.0	238.2	477.4	717.8	959.7	
Speed	r/min	750	748	747	745	743	
Efficiency	%	0.0	87.3	92.1	93.1	93.1	
Power Factor	%	4.8	37.3	55.0	67.0	73.0	



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	107	684	743	750	
Current	Α	764.6	688.1	394.4	159.3	76.4	
Torque	pu	1.9	1.6	2.1	1	0	



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

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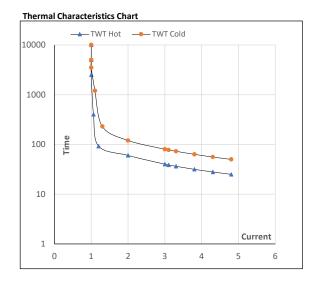


Model No. TCM0754A2113GAC011

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	75	100	159.3	743	97.86	959.68	IE3	40	S1	1000	4.8296	909

Motor Speed Torque Data Load LR TWT Hot s 10000 60 35 30 27 25 TWT Cold s 10000 120 80 70 62 54 50 4.5 4.8 Current pu 1 2 4

3.5



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

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