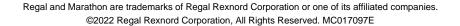
PRODUCT INFORMATION PACKET



Model No: TCM3752A2113GAC011 Catalog No: TCM3752A2113GAC011

TerraMAX® IE3, Mining Duty Motors, 375 kW, 3Ph, 4 Pole, 400/690V, B3, 50Hz, 355L Frame, TEFC







Product Information Packet: Model No: TCM3752A2113GAC011, Catalog No:TCM3752A2113GAC011 TerraMAX® IE3, Mining Duty Motors, 375 kW, 3Ph, 4 Pole, 400/690V, B3, 50Hz, 355L Frame, TEFC



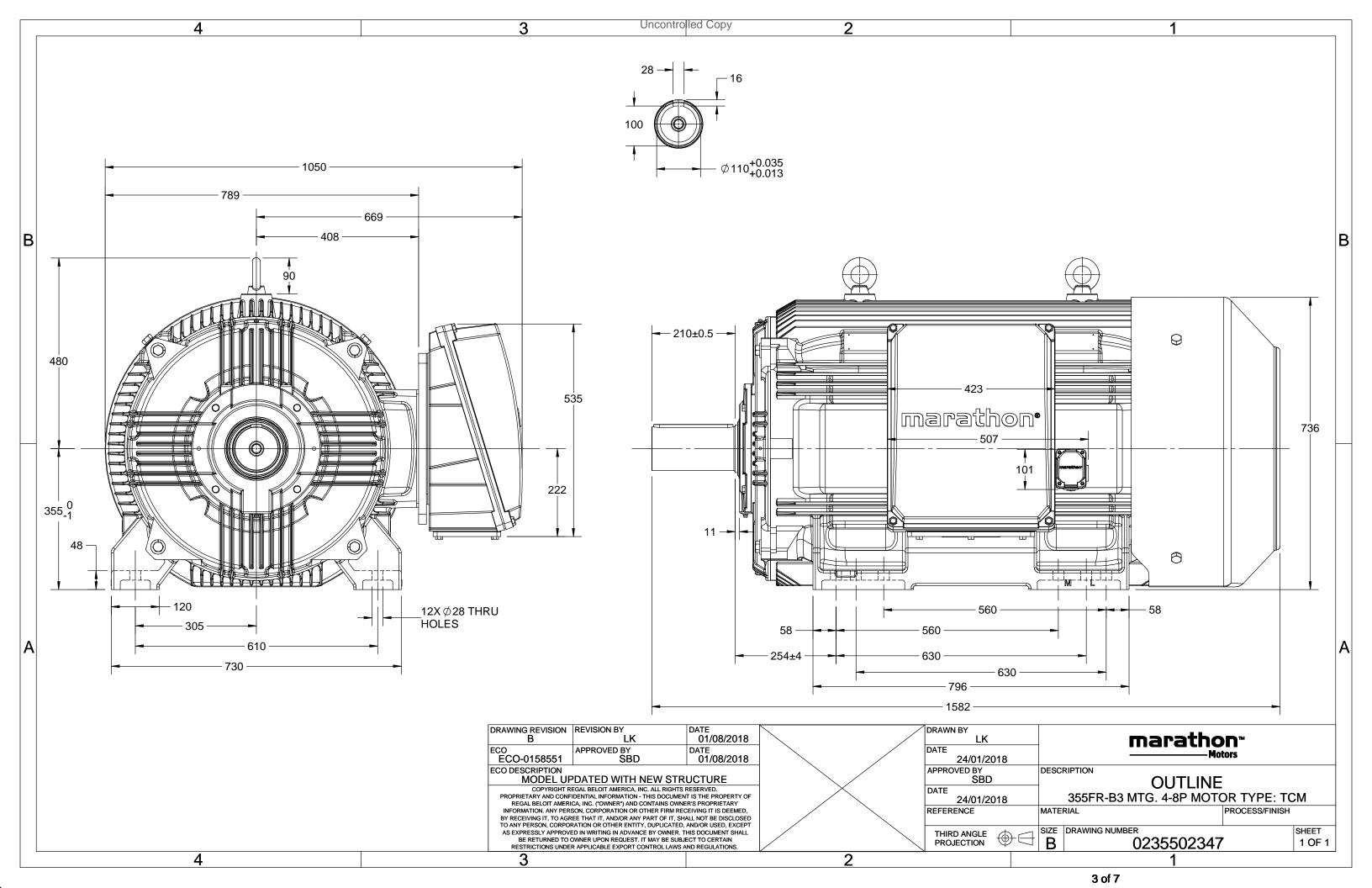
Nameplate Specifications

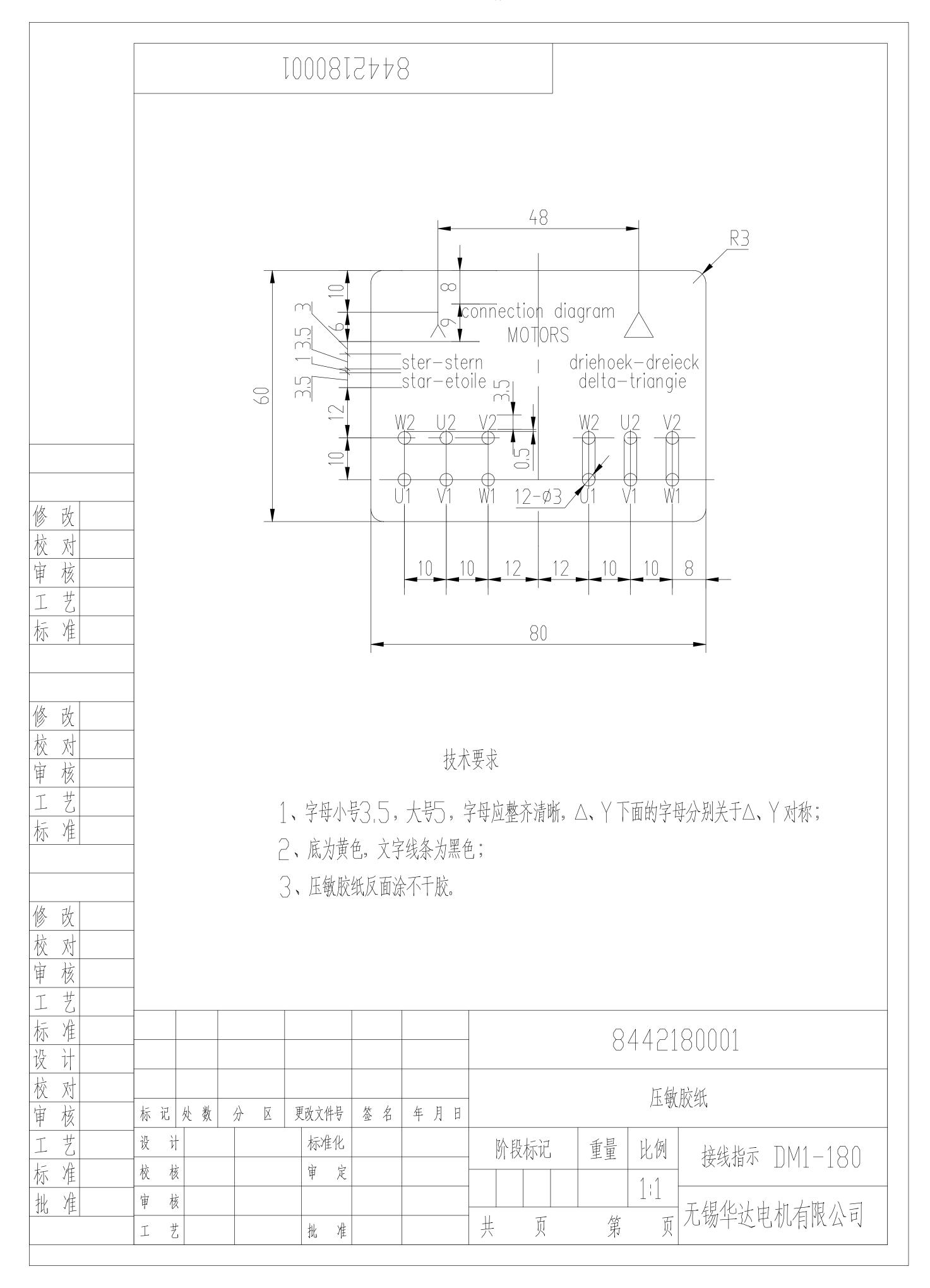
Output HP	503 Hp	Output KW	375.0 kW
Frequency	50 Hz	Voltage	400/690 V
Current	626.0 A	Speed	1490 rpm
Service Factor	1	Phase	3
Efficiency	96 %	Power Factor	0.9
Duty	S1	Insulation Class	Н
Frame	355L		Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	NU324	Opp Drive End Bearing Size	6322
UL	NO	CSA	NO
CE	YES IP Cod		60
OL .	YES	IP Code	66

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	В3	Motor Orientation	Horizontal
Drive End Bearing	C3	Opp Drive End Bearing	С3
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		
Outline Drawing	0235502347	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. TCM3752A2113GAC011

U	Δ/Υ	f	Р	Р	I	n	Т	IE	9	6 EFF a	it load	ł	PI	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	375	503	626.0	1490	2404.2	IE3	-	96	96	96.3	0.9	0.88	0.83	6.6	2.1	2.4

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	e) 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.	2028	kg
Gross weight - approx.	2073	kg
Motor inertia	11.1380	kgm²
Load inertia	Customer to Provide	
Vibration level	2.8	mm/s
Noise level (1meter distance from mot	tor) 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)	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 300mm²/4 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

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

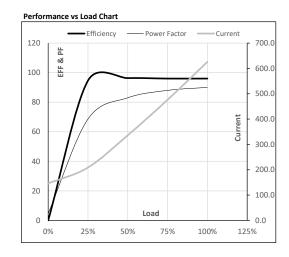




Model No. TCM3752A2113GAC011

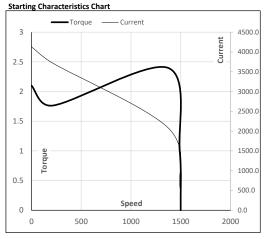
Enclosure	U	Δ / Y	f	Р	P	1	n	T	T	IE	Amb	Duty	Elevation	Inertia	Weight
((V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC 4	400	Δ	50	375	503.0	626.0	1490	245.16	2404.20	IE3	40	S1	1000	11.138	2028

Motor Load Da	Motor Load Data												
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL						
Current	Α	146.1	208.8	336.3	476.2	626.0							
Torque	Nm	0.0	597.9	1197.8	1799.8	2404.2							
Speed	r/min	1500	1498	1495	1493	1490							
Efficiency	%	0.0	94.6	96.3	96.0	96.0							
Power Factor	%	4.7	68.6	83.0	88.0	90.0							



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	214	1371	1490	1500	
Current	Α	4131.6	3718.4	2089.3	626.0	146.1	
Torque	pu	2.1	1.8	2.4	1	0	



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

Issued By Issued Date

REGAL

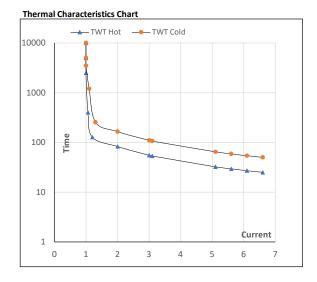




Model No. TCM3752A2113GAC011

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-m ²]	[kg]
TEFC	400	Δ	50	375	505	626.0	1490	245.16	2404.20	IE3	40	S1	1000	11.1380	2028

Motor Speed	Motor Speed Torque Data												
Load		FL	l ₁	l ₂	l ₃	I_4	I ₅	LR					
TWT Hot	S	10000	83	55	40	33	27	25					
TWT Cold	S	10000	165	110	82	65	54	50					
Current	pu	1	2	3	4	5	6	6.6					



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

Issued By Issued Date

REGAL