PRODUCT INFORMATION PACKET

Model No: TCM2002A2113GAC011 Catalog No: TCM2002A2113GAC011 TerraMAX® IE3, Mining Duty Motors, 200 kW, 3Ph, 4 Pole, 400/690V, B3, 50Hz, 315L Frame, TEFC



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Product Information Packet: Model No: TCM2002A2113GAC011, Catalog No:TCM2002A2113GAC011 TerraMAX® IE3, Mining Duty Motors, 200 kW, 3Ph, 4 Pole, 400/690V, B3, 50Hz, 315L Frame, TEFC

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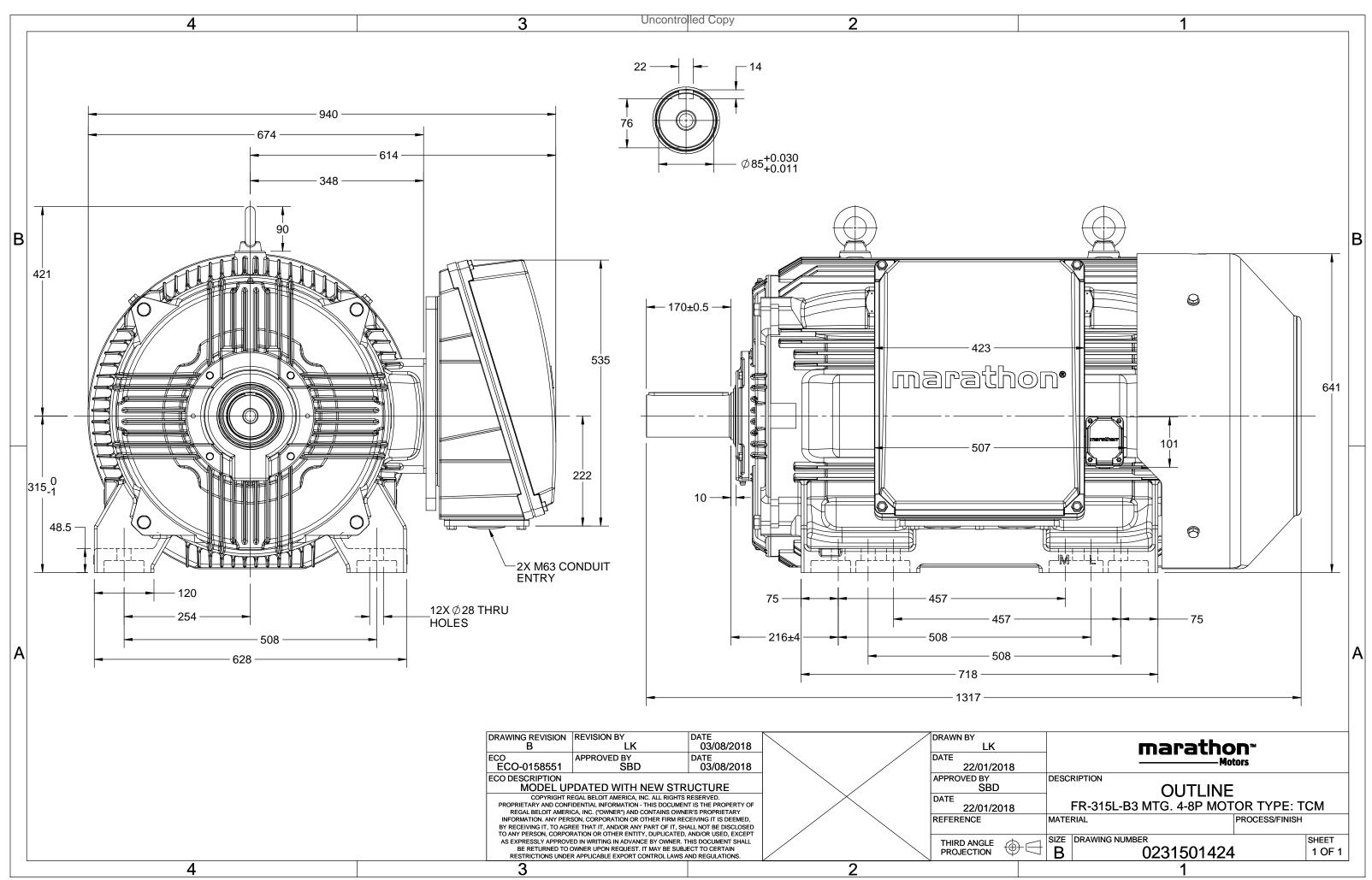
Nameplate Specifications

Output HP	270 Нр	Output KW	200.0 kW
Frequency	50 Hz	Voltage	400/690 V
Current	338.0 A	Speed	1488 rpm
Service Factor	1	Phase	3
Efficiency	96 %	Power Factor	0.89
Duty	S1	Insulation Class	н
Frame	315L	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	315L No Protection	Enclosure Ambient Temperature	Totally Enclosed Fan Cooled 40 °C
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection Drive End Bearing Size	No Protection NU319	Ambient Temperature Opp Drive End Bearing Size	40 °C 6319

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line	
Poles	4	Rotation	Bi-Directional	
Mounting	B3	Motor Orientation	Horizontal	
Drive End Bearing	C3	Opp Drive End Bearing	C3	
Frame Material	Cast Iron	Shaft Type	Keyed	
Overall Length	1317 mm	Frame Length	729 mm	
Shaft Diameter	85 mm	Shaft Extension	170 mm	
Assembly/Box Mounting	RHS			
Connection Drawing	8442180001	Outline Drawing	0231501424	

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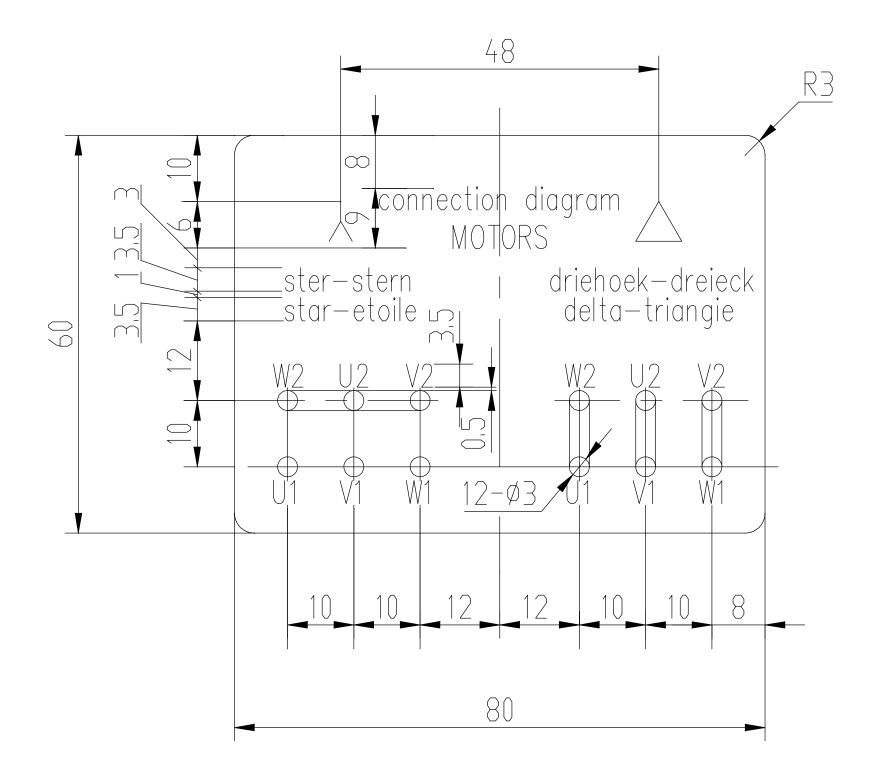


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技术要求

字母小号3.5,大号5,字母应整齐清晰,△、Y下面的字母分别关于△、Y对称;
 2、底为黄色,文字线条为黑色;

3、压敏胶纸反面涂不干胶。

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Model No. TCM2002A2113GAC011

U	Δ / Y	f	Р	Р	I	n	Т	IE	%	6 EFF a	t load	ł	PF	at lo	ad	I _A /I _N	T_A/T_N	$T_{\rm K}/T_{\rm N}$
(∨)	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	200	270	338.0	1488	1292.23	IE3	-	96	96	95.8	0.89	0.86	0.79	6.9	2.2	3

Motor type	TCM		Degree of protection	IP 66	
Enclosure	TEFC		Mounting type	IM B3	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	315L		Motor weight - approx.	1261	kg
Duty	S1		Gross weight - approx.	1306	kg
Voltage variation *	± 10%		Motor inertia	5.0623	kgm ²
Frequency variation *	± 5%		Load inertia	Customer to Provide	
Combined variation *	10%		Vibration level	2.8	mm/s
Design	Ν		Noise level (1meter distance from mot	or) 69	dB(A)
Service factor	1.15		No. of starts hot/cold/Equally spread	2/3/4	
Insulation class	Н		Starting method	DOL	
Ambient temperature	-20 to +40	°C	Type of coupling	Direct	
Temperature rise (by resistance	e) 80 [Class B]	К	LR withstand time (hot/cold)	20/40	S
Altitude above sea level	1000	meter	Direction of rotation	Bi-directional	
Hazardous area classification	NA		Standard rotation	Clockwise form DE	
Zone classification	NA		Paint shade	RAL 2008	
Gas group	NA		Accessories		
Temperature class	NA		Accessory - 1	PTC 150°C	
Rotor type	Aluminum Die cast		Accessory - 2	-	
Bearing type	Anti-friction ball		Accessory - 3	-	
DE / NDE bearing	NU319 / 6319-C3		Terminal box position	RHS	
Lubrication method	Regreasable		Maximum cable size/conduit size 1	R x 3C x 300mm²/2 x M63 x 1.5	
Type of grease	CHEVRON SRI-2 or Equivalent		Auxiliary terminal box	YES	

 $I_{\rm A}/I_{\rm N}$ - Locked Rotor Current / Rated Current $T_{\rm A}/T_{\rm N}$ - 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

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

Technical dat	ta are subject to chang	e. There may be slight v	variations between calculated	values in this datasheet a	nd the motor nam	eplate 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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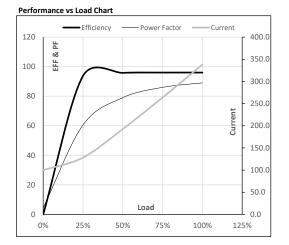
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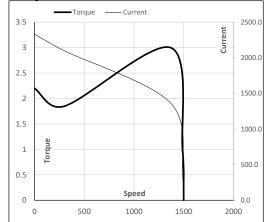
Model No. TCM2002A2113GAC011

Enclosure	U	Δ / Y	f	Р	Р	1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	200	270.0	338.0	1488	131.77	1292.23	IE3	40	S1	1000	5.0623	1261

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	99.7	128.2	192.6	263.7	338.0	
Torque	Nm	0.0	321.1	643.4	967.1	1292.2	
Speed	r/min	1500	1497	1494	1491	1488	
Efficiency	%	0.0	93.7	95.8	96.0	96.0	
Power Factor	%	4.4	60.5	79.0	86.0	89.0	



Starting Characteristics Chart



Motor Speed	Torque Dat	a					
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	300	1369	1488	1500	
Current	А	2332.2	2099.0	1364.7	338.0	99.7	
Torque	pu	2.2	1.8	3.0	1	0	

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

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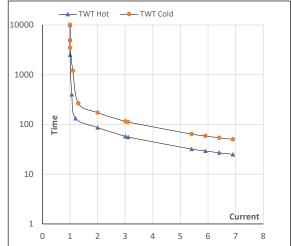
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Enclosure	U	Δ/Υ	f	Р	Р	I	n	т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	200	270	338.0	1488	131.77	1292.23	IE3	40	S1	1000	5.0623	1261

Motor Speed Torque Data

Load		FL	I_1	I ₂	I ₃	I_4	I ₅	LR
TWT Hot	S	10000	86	58	50	43	29	25
TWT Cold	S	10000	173	115	102	74	58	50
Current	pu	1	2	3	4	5	6	6.9

Thermal Characteristics Chart



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

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