PRODUCT INFORMATION PACKET



Model No: TCA7P52AF111GAC010
Catalog No: TCA7P52AF111GAC010

TerraMAX® Cast Iron Motor, 10 HP, 3 Ph, 50 Hz, 380 V, 1500 RPM, 132M Frame, TEFC





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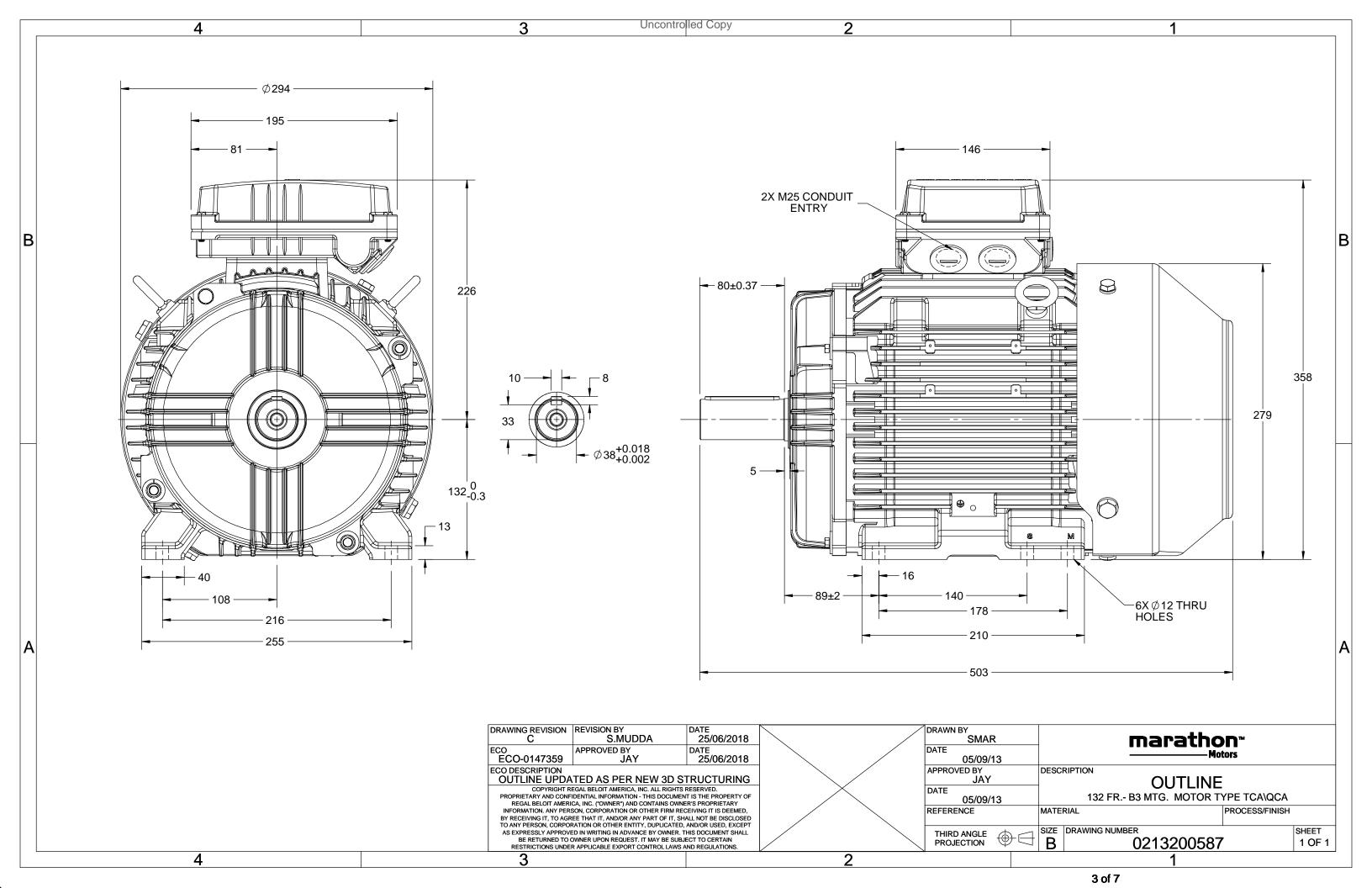
Nameplate Specifications

Output HP	10 Hp	Output KW	7.5 kW
Frequency	50 Hz	Voltage	380 V
Current	15.2 A	Speed	1470 rpm
Service Factor	1	Phase	3
Efficiency	90.4 %	Power Factor	0.83
Duty	S 1	Insulation Class	F
Frame	132M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6308	Opp Drive End Bearing Size	6208
UL	No	CSA	No
CE	Yes	IP Code	55
Number of Speeds	1	Efficiency Class	IE3

Technical Specifications

Squirrel Cage	Starting Method	Direct On Line
4	Rotation	Bi-Directional
В3	Motor Orientation	Horizontal
2Z-C3	Opp Drive End Bearing	2Z-C3
Cast Iron	Shaft Type	Keyed
503 mm	Frame Length	240 mm
38 mm	Shaft Extension	80 mm
Тор		
0213200587	Connection Drawing	8442000085
	4 B3 2Z-C3 Cast Iron 503 mm 38 mm Top	4 Rotation B3 Motor Orientation 2Z-C3 Opp Drive End Bearing Cast Iron Shaft Type 503 mm Frame Length 38 mm Shaft Extension

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DRAWING REVISION	REVISION BY	DATE
Α	SN	13/01/2017
ECO	APPROVED BY	DATE
ECO-0116390	SBD	13/01/2017
ECO DESCRIPTION		

NEW DRAWING RELEASE

GEOMENTRIC TOLERANCE									
LINEAR DIM	>0~6	±0.1							
	>6~30	±0.2							
	>30~120	±0.3							



NOTES:

- 1.
- 2.
- PRESSURE-SENSITIVE ADHESIVE COATED PAPER ON THE BACK OF SELF-ADHESIVE. AT THE END OF YELLOW, WORDS, SYMBOLS, LETTERS ARE BLACK, BORDER IS BLACK. THE TOLERANCE OF THE LINEAR SIZE OF THE TOLERANCE WITHOUT THE TOLERANCE 3. BY THE TABLE.

8WD.442.2017





TerraMAX[®]

Model No. TCA7P52AF111GAC010

U	Δ/Υ	f	Р	Р	I	n	Т	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]
380	Δ	50	7.5	10	15.19	1470	48.47	IE3	-	90.4	90.4	90.4	0.83	0.77	0.65	7.5	2.8	3.0

Motor type	TCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	132M	
Duty	S1	
Voltage variation *	± 10%	
Frequency variation *	± 5%	
Combined variation *	10%	
Design	N	
Service factor	1.0	
Insulation class	F	
Ambient temperature	-20 to +40	°C
Temperature rise (by resistance)	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	6308-2Z / 6208-2Z	
Lubrication method	Greased for life	
Type of grease	NA	

Degree of protection	IP 55	
Mounting type	IM B3	
Cooling method	IC 411	
Motor weight - approx.	93	kg
Gross weight - approx.	96	kg
Motor inertia	0.0550	kgm²
Load inertia	Customer to Provide	
Vibration level	1.6	mm/s
Noise level (1meter distance from mot	tor) 61	dB(A)
No. of starts hot/cold/Equally spread	2/3/4	
Starting method	DOL	
Type of coupling	Direct	
LR withstand time (hot/cold)	10/20	S
Direction of rotation	Bi-directional	
Standard rotation	Clockwise form DE	
Paint shade	RAL 5014	
Accessories		
Accessory - 1	PTC 150°C	
Accessory - 2	-	
Accessory - 3	-	
Terminal box position	TOP	
Maximum cable size/conduit size	1R x 3C x 16mm²/2 x M25 x 1.5	
Auxiliary terminal box	NA	

 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 discrepancies between calculated and name plate values.

Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	-	GB 18613-2012 Grade 2	-	-	-	IEC: 60034-30

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st Voltage, Frequency and combine variation are as per IEC60034-1

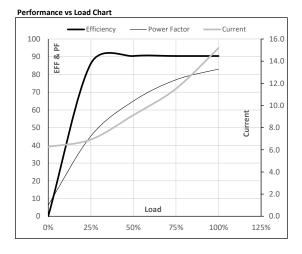




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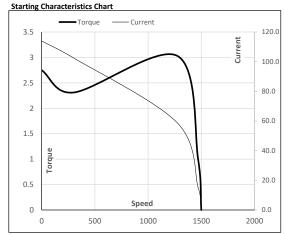
Enclosure	U	Δ/Υ	f	Р	Р	1	n	Т	T	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Δ	50	7.5	10	15.2	1470	4.94	48.47	IE3	40	S1	1000	0.055	93

Motor Load Da	ata						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	6.3	6.9	9.1	11.5	15.2	
Torque	Nm	0.0	11.9	24.0	36.1	48.5	
Speed	r/min	1500	1493	1486	1478	1470	
Efficiency	%	0.0	86.1	90.4	90.4	90.4	
Power Factor	%	6.3	45.2	65.0	77.0	83.0	



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	300	1275	1470	1500
Current	Α	113.9	102.5	58.7	15.2	6.3
Torque	pu	2.8	2.3	3.0	1	0



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

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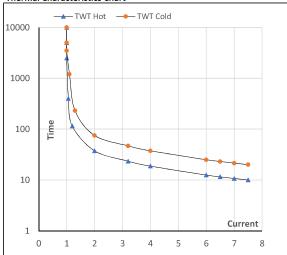
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Enclosure	U	Δ/Υ	f	Р	Р	- 1	n	Т	Т	ΙE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Δ	50	7.5	10.0	15.2	1470	4.94	48.47	IE3	40	S1	1000	0.055	93

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	l ₅	LR
TWT Hot	s	10000	38	26	19	16	13	10
TWT Cold	s	10000	75	50	38	35	24	20
Current	pu	1	2	3	4	5	5.5	7.5

Thermal Characteristics Chart



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

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