PRODUCT INFORMATION PACKET

Model No: TCA2P22AF111GAC010 Catalog No: TCA2P22AF111GAC010 TerraMAX® Cast Iron Motor, 3 HP, 3 Ph, 50 Hz, 380 V, 1500 RPM, 100L Frame, TEFC



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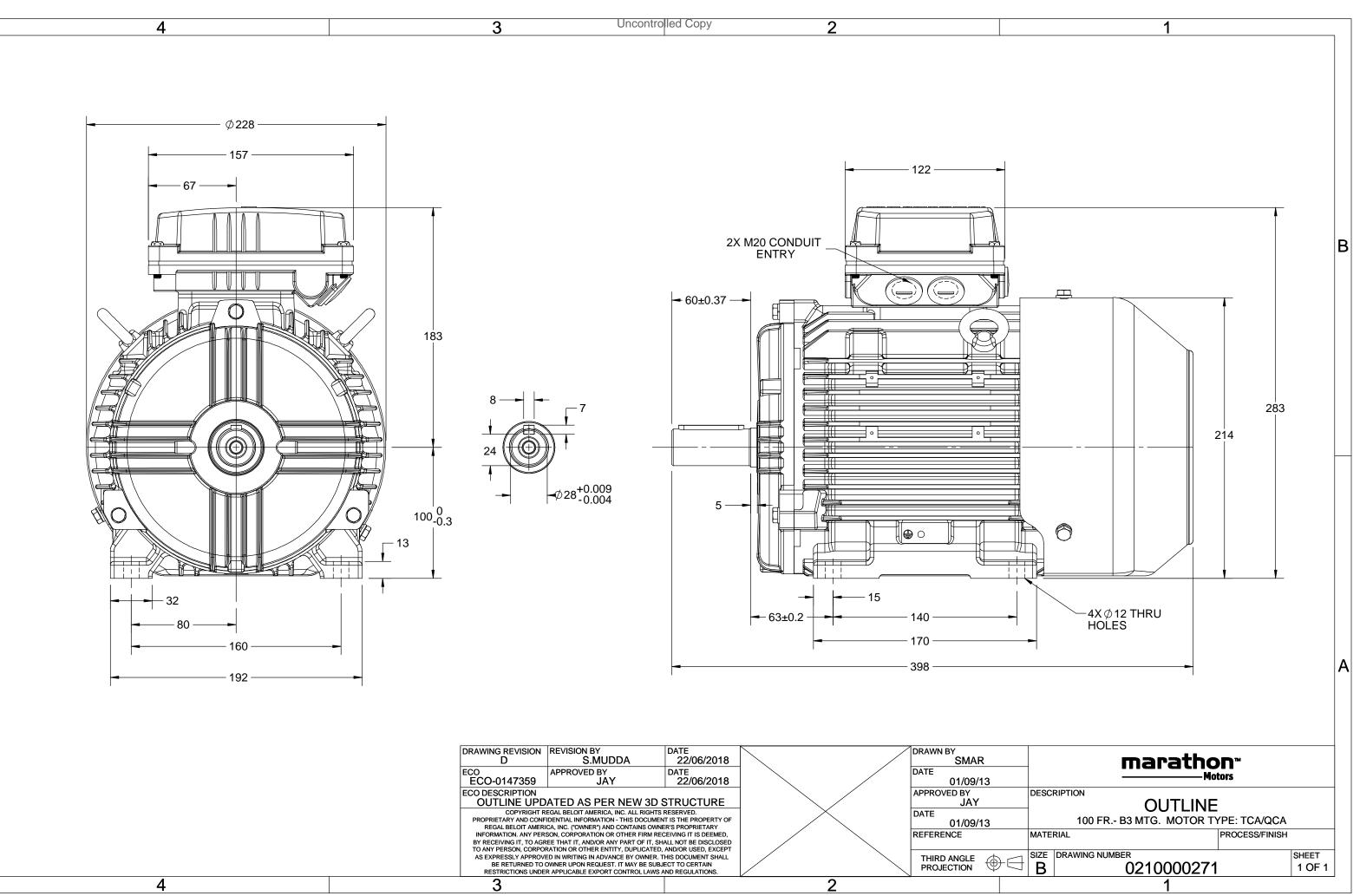
Nameplate Specifications

Output HP	3 Нр	Output KW	2.2 kW
Frequency	50 Hz	Voltage	380 V
Current	4.6 A	Speed	1456 rpm
Service Factor	1	Phase	3
Efficiency	86.7 %	Power Factor	0.84
Duty	S1	Insulation Class	F
_	400	Factoria	Tatalka England di Espi Osiala d
Frame	100L	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	100L No Protection	Ambient Temperature	40 °C
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection Drive End Bearing Size	No Protection 6206	Ambient Temperature Opp Drive End Bearing Size	40 °C 6206

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	B3	Motor Orientation	Horizontal
Drive End Bearing	2Z-C3	Opp Drive End Bearing	2Z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	398 mm	Frame Length	200 mm
Shaft Diameter	28 mm	Shaft Extension	60 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0210000271

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Model No. TCA2P22AF111GAC010

380 Y 50 2.2 3 4.59 1456 14.67 IE3 - 86.7 85.1 0.84 0.77 0.65 7 2.3 2.5 Motor type TCA IE3 - 86.7 86.7 85.1 0.84 0.77 0.65 7 2.3 2.5 Motor type TCA Degree of protection IP 55 Enclosure TEFC Mounting type IM B3 Frame Material Cast Iron Cooling method IC 411 Frame size 100L Motor weight - approx. 39 Duty S1 Gross weight - approx. 42 Voltage variation * ± 10% Motor inertia 0.0115 kgr Frequency variation * ± 5% Load inertia Customer to Provide 1.6 mm	U	Δ / Y	f	Р	Р	I	n	Т	IE	9	% EFF a	t load	ł	PF	at lo	bad	I _A /I _N	T_A/T_N	$T_{\rm K}/T_{\rm N}$
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,	Bearing	g type			A	nti-frictio	n ball				Acc	essory -	3				-		
Lubrication method Greased for life Maximum cable size/conduit size 18 x 3C x 10mm ² /2 x M20 x 1 5	DE / NE	DE bearii	ng		620	06-2Z / 6	5206-2Z			Ter	minal b	ox posit	ion				TOP		
	Lubrica	tion me	thod		G	ireased fo	or life			Ma	ximum	cable siz	e/cond	uit size	1R	x 3C x 1	L0mm²/2 x M	20 x 1.5	
Type of grease NA Auxiliary terminal box NA	Type of	fgrease				NA				Aux	iliary te	erminal l	хос				NA		

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

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

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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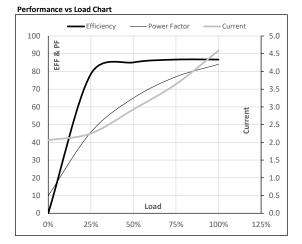


Model No. TCA2P22AF111GAC010

()								IE	Amb	Duty	Elevation	Inertia	Weight
(V) Co	Conn [Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC 380	Y 50	2.2	3.0	4.6	1456	1.50	14.67	IE3	40	S1	1000	0.0115	39

Motor Load Data

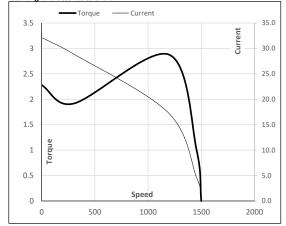
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	2.1	2.3	2.9	3.6	4.6	
Torque	Nm	0.0	3.6	7.2	10.9	14.7	
Speed	r/min	1500	1490	1480	1469	1456	
Efficiency	%	0.0	78.5	85.1	86.7	86.7	
Power Factor	%	9.9	45.7	65.0	77.0	84.0	



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	300	1194	1456	1500	
Current	А	32.1	28.9	17.3	4.6	2.1	
Torque	pu	2.3	1.9	2.9	1	0	

Starting Characteristics Chart



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

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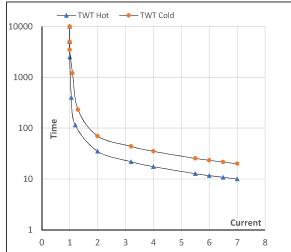
Model No. TCA2P22AF111GAC010

Enclosure	U	Δ / Y	f	Р	Р	Ι	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	380	Y	50	2.2	3.0	4.6	1456	1.50	14.67	IE3	40	S1	1000	0.0115	39

Motor Speed Torque Data

Load		FL	I_1	I_2	l ₃	I_4	l ₅	LR
TWT Hot	s	10000	35	24	18	15	13	10
TWT Cold	s	10000	70	45	35	30	26	20
Current	pu	1	2	3	4	5	5.5	7

Thermal Characteristics Chart



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

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