PRODUCT INFORMATION PACKET

Model No: TCE7P54A2111GAA001 Catalog No: TCE7P54A2111GAA001 TerraMAX® Increased Safety Motors Ex eb, Totally Enclosed Fan Cooled, 10 HP, 3 Ph, 50 Hz, 400 V, 728 RPM, 160L Frame



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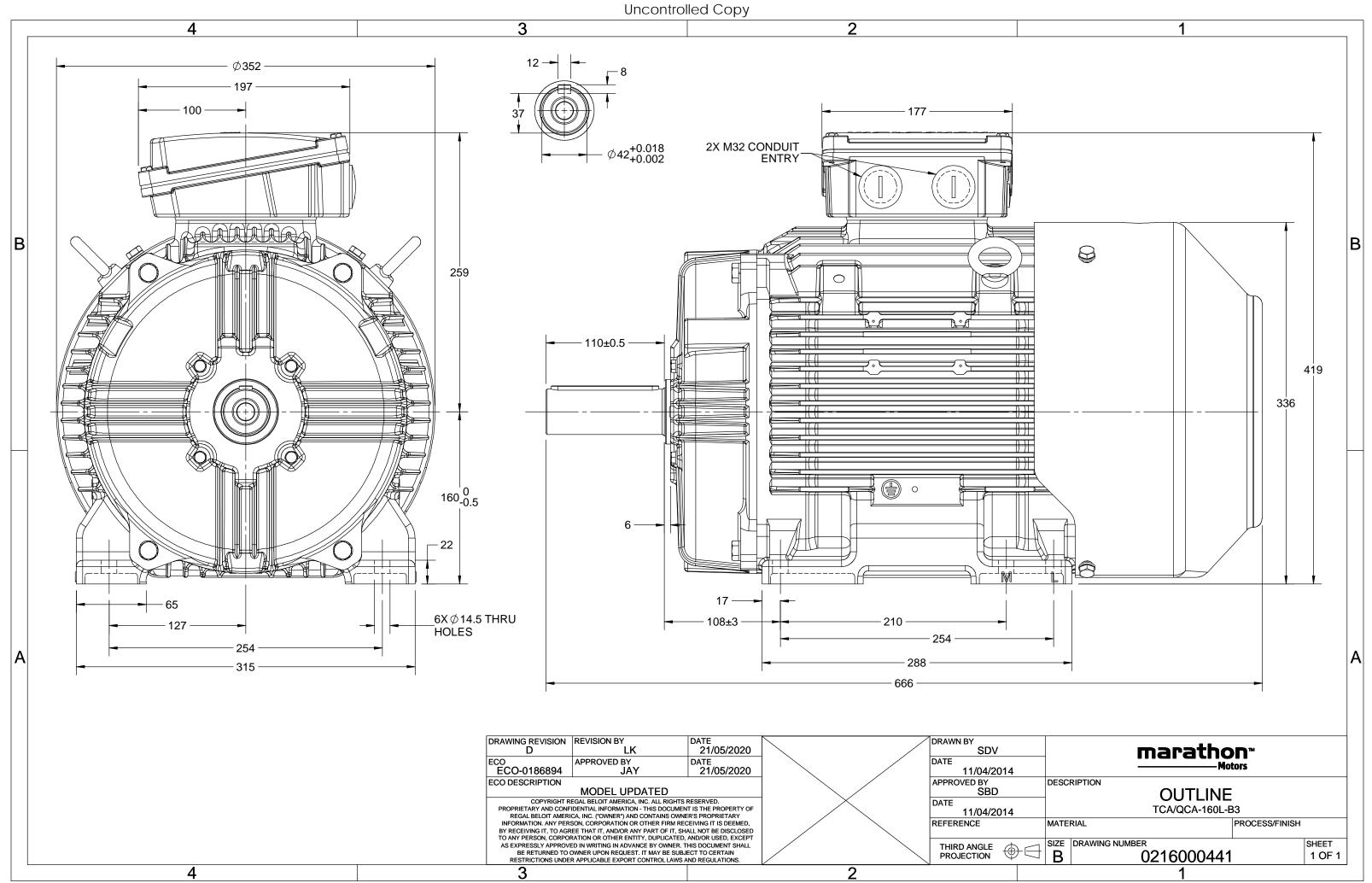
Nameplate Specifications

Output HP	10 Hp	Output KW	7.5 kW
Frequency	50 Hz	Voltage	400 V
Current	17.3 A	Speed	728 rpm
Service Factor	1	Phase	3
Efficiency	87.3 %	Power Factor	0.7
Duty	S1	Insulation Class	F
Frame	160L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6209
UL	No	CSA	Νο
CE	Yes	IP Code	IP55
Number of Speeds	3		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	8	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	666 mm	Frame Length	298 mm
Shaft Diameter	42.000 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0216000441	Connection Drawing	8442000085

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U Δ/Y f	Р	Р	I	n	Т	IE	9	6 EFF at	t load	ł	PF	at lo	bad	I _A /I _N	T_A/T_N	T _K /T _N
(V) Conn [Hz] [[kW] [l	hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
400 Δ 50	7.5 1	0.0 1	17.3	728	97.97	IE3	-	87.3	87.3	87.8	0.72	0.65	0.52	5.4	1.8	2.3
Motor type			TCE						protecti	on				IP 55		
Enclosure	nclosure TEFC						Mo	Mounting type						IM B3		
Frame Material		C	Cast Iro	n			Coc	Cooling method						IC 411		
Frame size			160L				Mo	tor wei	ght - ap	prox.				90		kg
Duty	y \$1				Gro	Gross weight - approx.					110			kg		
Voltage variation *	ariation * ± 10%				Mo	Motor inertia						0.2040		kgm ²		
Frequency variation *	equency variation * ± 5%				Loa	Load inertia					Customer to Provide					
Combined variation *	n * 10%				Vib	Vibration level						2.2		mm/s		
Design	Ν				Noi	Noise level (1meter distance from motor)					r)	59		dB(A)		
Service factor			1.0				No.	No. of starts hot/cold/Equally spread						2/3/4		
Insulation class			F				Sta	Starting method					DOL			
Ambient temperature		-1	L5 to +4	40		°C	Тур	e of co	upling					Direct		
Temperature rise (by re	sistance)) 70	[Class	B]		К	tE t	ime						25		S
Altitude above sea level	l		1000			meter	Dire	Direction of rotation					Bi-directional			
Hazardous area classific	ation		Ex eb				Star	Standard rotation					Clockwise form DE			
Zone classification	on	:	Zone 1	L			Pair	Paint shade					RAL 7016			
Gas group			IIC				Acc	essorie	S							
Temperature cla	ISS		Т3					Accessory - 1						PTC 150°C		
Rotor type		Alumir	num di	ie cast				Accessory - 2						-		
Bearing type		Anti-friction ball bearing					Accessory - 3					-				
DE / NDE bearing		6309-2	2Z / 6	209-2Z			Ter	Terminal box position					ТОР			
Lubrication method		Grea	ased fo	r life			Ma						1R x 3C x 35mm²/2 X M32 x 1.5			
Type of grease			NA				Aux	iliary te	erminal	box				NA		
-																

 $\rm I_A/\rm I_N$ - Locked Rotor Current / Rated Current

 $T_{\text{A}}/T_{\text{N}}$ - Locked Rotor Torque / Rated Torque

NOTE

ATEX/IEC Ex certified as per IEC/EN 60079-0; IEC/EN 60079-7

All performance values at rated voltage and frequency.

All performance parameters are subjected to standard tolerance as per IEC 60034-1

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

Technical da	ata are subject to chan	ge. There may be slight v	variations between calculated	l values in this datash	eet and the motor na	meplate figures.
Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	IEC:60034-30-1		-	-	-	IEC:60034-30-1



 T_{K}/T_{N} - Breakdown Torque / Rated Torque

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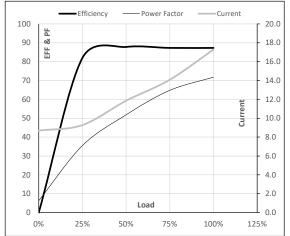
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Enclosure	U	Δ / Y	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	7.5	10	17.3	728	9.99	97.97	IE3	40	S1	1000	0.204	90

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	8.7	9.3	11.9	14.1	17.3	
Torque	Nm	0.0	32.5	65.4	98.8	98.0	
Speed	r/min	750	745	740	734	728	
Efficiency	%	0.0	82.0	87.8	87.3	87.3	
Power Factor	%	6.3	35.5	51.8	64.8	71.7	

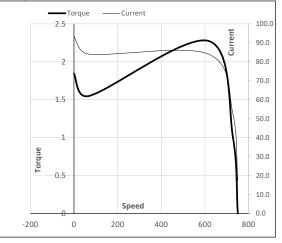
Performance vs Load Chart



Motor Speed Torque Data

motor opec	a loique sau	-					
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	68	616	728	750	
Current	А	93.4	84.0	52.3	17.3	8.7	
Torque	pu	1.8	1.5	2.3	1	0	

Starting Characteristics Chart



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

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