PRODUCT INFORMATION PACKET

Model No: TCE1P12A5111GAA001 Catalog No: TCE1P12A5111GAA001 TerraMAX® Increased Safety Motors Ex eb, Totally Enclosed Fan Cooled, 1.5 HP, 3 Ph, 50 Hz, 400 V, 1450 RPM, 90S Frame



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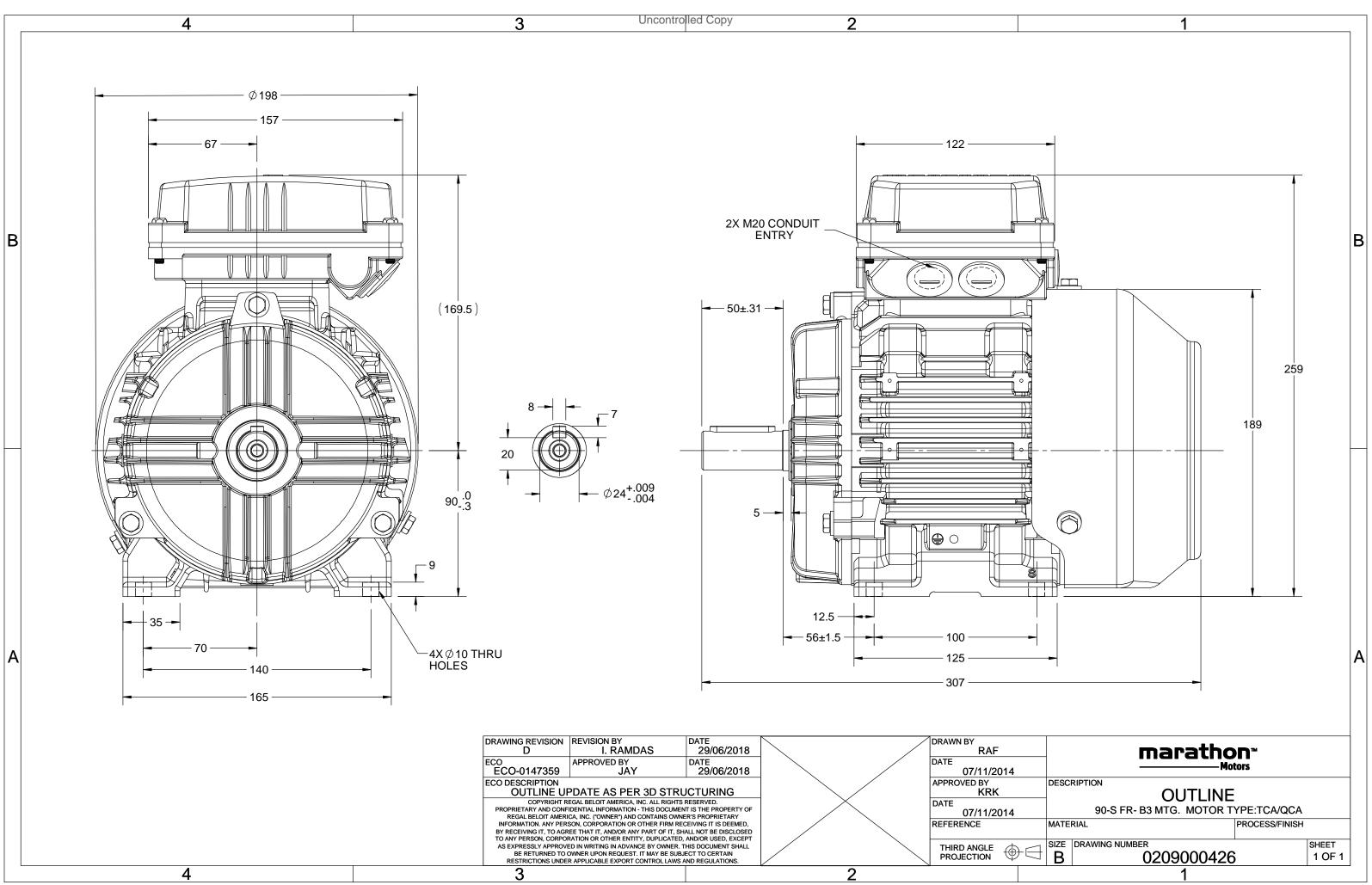
Nameplate Specifications

Output HP	1.50 Hp	Output KW	1.1 kW
Frequency	50 Hz	Voltage	400 V
Current	2.4 A	Speed	1450 rpm
Service Factor	1	Phase	3
Efficiency	84.1 %	Power Factor	0.78
Duty	S1	Insulation Class	F
Frame	90S	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6205	Opp Drive End Bearing Size	6205
UL	No	CSA	No
CE	Yes	IP Code	IP55
Number of Speeds	3		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	ВЗ	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	307 mm	Frame Length	128 mm
Shaft Diameter	24.000 mm	Shaft Extension	50 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0209000426	Connection Drawing	8442000085

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Model No. TCE1P12A5111GAA001

$U \Delta / Y f$	Р	P I	n	Т	IE	9	6 EFF at	tloa	d	PF	at lo	bad	I _A /I _N	T_A/T_N	$T_{\rm K}/T_{\rm N}$
(V) Conn [Hz]	[kW] [ł	np] [A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
400 Y 50	1.1 1	5 2.4	1450	7.36	IE3	-	84.1	84.1	82.4	0.78	0.70	0.55	7.2	3.1	3.6
			~=			-							10.55		
Motor type			CE				•	protecti	ion				IP 55		
Enclosure			FC				unting						IM B3		
Frame Material		Cast					oling me						IC 411		
Frame size		90						ght - ap	•				27		kg
Duty	S1 Gross weight - appr					orox.				28		kg			
Voltage variation *		± 1	0%			Motor inertia					0.0044			kgm ²	
Frequency variation *	quency variation * ± 5%				Loa	Load inertia						Customer to Provide			
Combined variation *		10)%			Vib	ration l	evel					1.6		mm/s
Design		1	1			Noi	se leve	l (1met	er dista	nce fro	m moto	r)	54		dB(A)
Service factor		1	.0			No.	of star	ts hot/c	old/Equ	ually spi	read		2/3/4		
Insulation class		1	-			Sta	rting m	ethod					DOL		
Ambient temperature		-15 te	o +40		°C	Тур	e of co	upling					Direct		
Temperature rise (by re	esistance)	70 [Cl	ass B]		К	tE t	tE time						30		
Altitude above sea leve	I	10	00		meter	Dire	Direction of rotation						Bi-directional		
Hazardous area classific	ation	Ex	eb			Sta	Standard rotation						Clockwise form DE		
Zone classification	on	Zor	ie 1			Pair	Paint shade						RAL 7016		
Gas group		II	С			Acc	essorie	s							
Temperature cla	ass	т	3				Accessory - 1						PTC 150°C		
Rotor type		Aluminur	n Die cast				Accessory - 2						-		
Bearing type		Anti-fric	tion ball				Acc	cessory	- 3				-		
DE / NDE bearing		6205-2Z /	6205-2Z			Ter	minal b	ox posit	tion				ТОР		
Lubrication method		Greased	for life					cable si		luit size	1R	1R x 3C x 10mm ² /2 x M20 x 1.5			
Type of grease		N	A					erminal					NA		
,,															

 I_A/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	variations between calculated	I 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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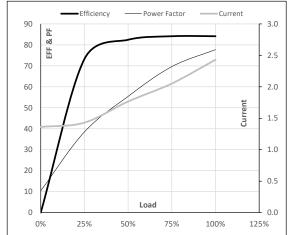
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	0 4/1	I	Р	Р	1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
(V)	V) Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC 400	00 Y	50	1.1	1	2.4	1450	0.75	7.36	IE3	40	S1	1000	0.0044	27

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	1.4	1.4	1.8	2.1	2.4	
Torque	Nm	0.0	2.4	4.9	7.4	7.4	
Speed	r/min	1500	1487	1476	1464	1450	
Efficiency	%	0.0	73.3	82.4	84.1	84.1	
Power Factor	%	10.4	38.5	55.5	69.6	77.7	

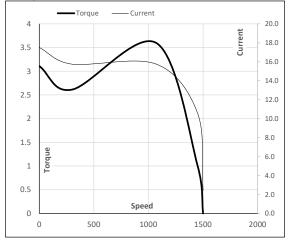
Performance vs Load Chart



Motor Speed Torque Data

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Load Point		LR	P-Up	BD	Rated	NL			
Speed	r/min	0	300	1073	1450	1500			
Current	А	17.5	15.8	10.6	2.4	1.4			
Torque	pu	3.1	2.6	3.6	1	0			

Starting Characteristics Chart



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

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