PRODUCT INFORMATION PACKET

Model No: TCE5P52A2121GAA001 Catalog No: TCE5P52A2121GAA001 TerraMAX® Increased Safety Motors Ex eb, Totally Enclosed Fan Cooled, 7.5 HP, 3 Ph, 50 Hz, 400 V, 1470 RPM, 132S Frame



Regal and Marathon are trademarks of Regal Rexnord Corporation or one of its affiliated companies. ©2022 Regal Rexnord Corporation, All Rights Reserved. MC017097E







1 of 6

Product Information Packet: Model No: TCE5P52A2121GAA001, Catalog No:TCE5P52A2121GAA001 TerraMAX® Increased Safety Motors Ex eb, Totally Enclosed Fan Cooled, 7.5 HP, 3 Ph, 50 Hz, 400 V, 1470 RPM, 132S Frame

marathon®

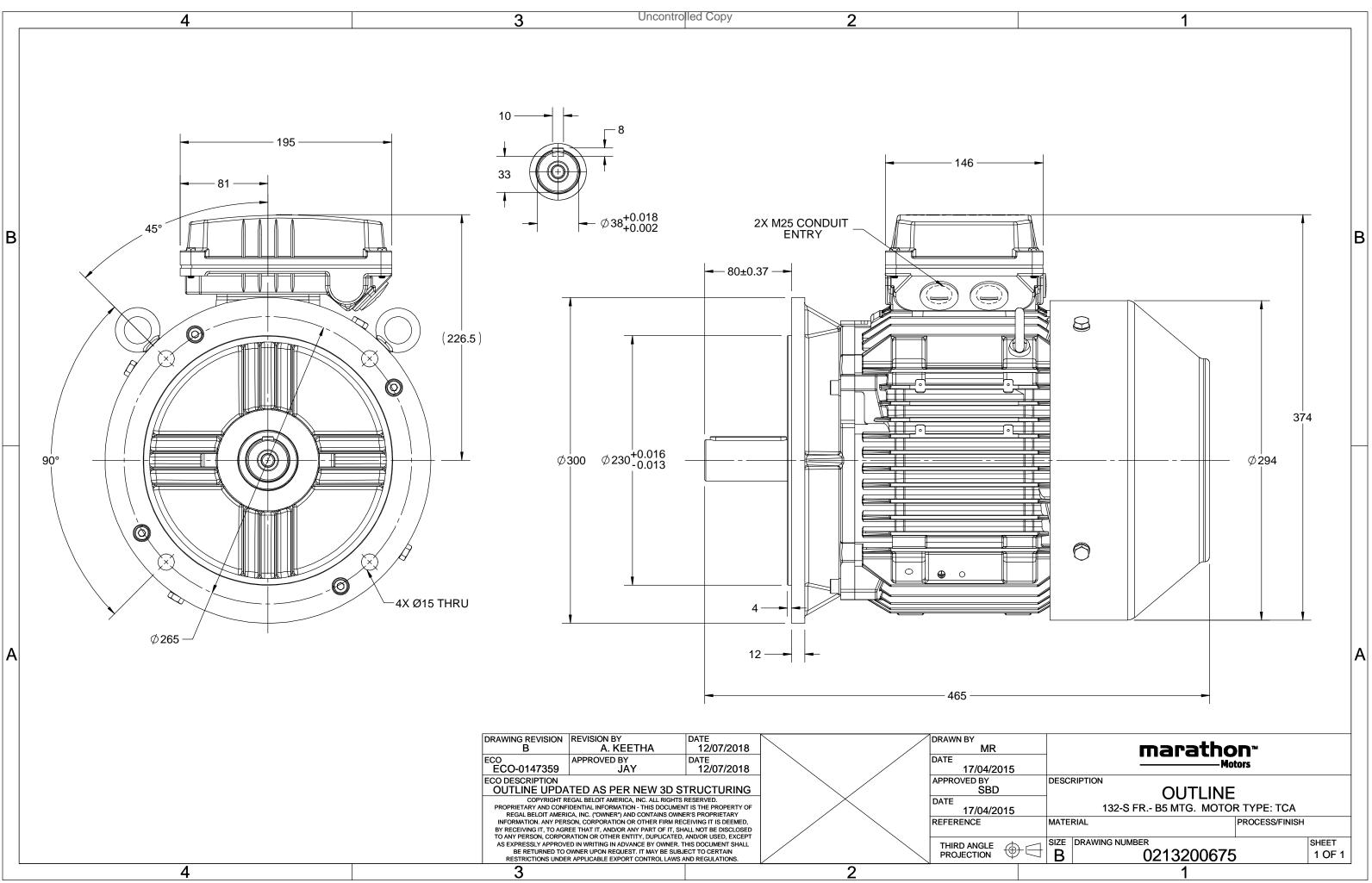
Nameplate Specifications

Output HP	7.50 Hp	Output KW	5.5 kW
Frequency	50 Hz	Voltage	400 V
Current	10.9 A	Speed	1470 rpm
Service Factor	1	Phase	3
Efficiency	89.6 %	Power Factor	0.81
Duty	S1	Insulation Class	F
Frame	132S	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	Νο
CE	Yes	IP Code	IP55

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	B5	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	465 mm	Frame Length	202 mm
Shaft Diameter	38.000 mm	Shaft Extension	80 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0213200675	Connection Drawing	8442000085

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created: 12/02/2022



3 of 6







kg kg kgm²

mm/s dB(A)

S

Model No. TCE5P52A2121GAA001

U	Δ/Υ	f	Р	Р		n	т	IE	9	6 FFF a	tload	4	PF	at lo	bad	I _A /I _N	T./T.	T _K /T _N
(V)	Conn		[kW]	[hp]	[A]	[RPM]	[Nm]				3/4FL			3/4FL		[pu]	[pu]	[pu]
400	Δ	50	5.5	7.5	10.9	1470	36.35	IE3	-	89.6	89.6	90.6	0.81	0.75	0.63	7.0	2.5	3.0

Motor type	TCE		Degree of protection	IP 55
Enclosure	TEFC		Mounting type	IM B5
Frame Material	Cast Iron		Cooling method	IC 411
Frame size	1325		Motor weight - approx.	84
Duty	S1		Gross weight - approx.	87
Voltage variation *	± 10%		Motor inertia	0.0476
Frequency variation *	± 5%		Load inertia	Customer to Provide
Combined variation *	10%		Vibration level	1.6
Design	Ν		Noise level (1meter distance from moto	or) 61
Service factor	1.0		No. of starts hot/cold/Equally spread	2/3/4
Insulation class	F		Starting method	DOL
Ambient temperature	-15 to +40	°C	Type of coupling	Direct
Temperature rise (by resistance)	70 [Class B]	К	tE time	25
Altitude above sea level	1000	meter	Direction of rotation	Bi-directional
Hazardous area classification	Ex eb		Standard rotation	Clockwise form DE
Zone classification	Zone 1		Paint shade	RAL 7016
Gas group	IIC		Accessories	
Temperature class	Т3		Accessory - 1	PTC 150°C
Rotor type	Aluminum Die cast		Accessory - 2	-
Bearing type	Anti-friction ball		Accessory - 3	-
DE / NDE bearing	6308-2Z / 6208-2Z		Terminal box position	TOP
Lubrication method	Greased for life		Maximum cable size/conduit size 1	R x 3C x 16mm²/2 x M25 x 1.5
Type of grease	NA		Auxiliary terminal box	NA

 I_A/I_N - Locked Rotor Current / Rated Current

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

 T_{K}/T_{N} - Breakdown 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	ta are subject to char	ge. There may be slight	variations between calculated	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

REGAL

marathon®



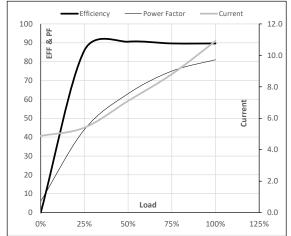
Model No. TCE5P52A2121GAA001

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	5.5	8	10.9	1470	3.71	36.35	IE3	40	S1	1000	0.0476	84

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	4.9	5.4	7.1	8.8	10.9	
Torque	Nm	0.0	12.1	24.4	36.8	36.3	
Speed	r/min	1500	1493	1486	1478	1470	
Efficiency	%	0.0	86.0	90.6	89.6	89.6	
Power Factor	%	6.0	44.0	63.0	75.0	81.0	

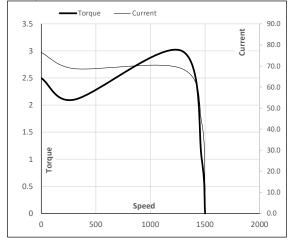
Performance vs Load Chart



Motor Speed Torque Data

motor opec	a loique Batt						
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	300	1286	1470	1500	
Current	А	76.4	68.8	43.0	10.9	4.9	
Torque	pu	2.5	2.1	3.0	1	0	

Starting Characteristics Chart



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

Issued By Issued Date

REGAL