PRODUCT INFORMATION PACKET



Model No: TCT5P52A1121GAA001 Catalog No: TCT5P52A1121GAA001

IE3, 5.5kW, DUST IGNITION PROOF MOTORS, 3 phase, 4 Pole, 400V, 1468RPM, 50Hz, 89.6%, 132S Frame,

TEFC





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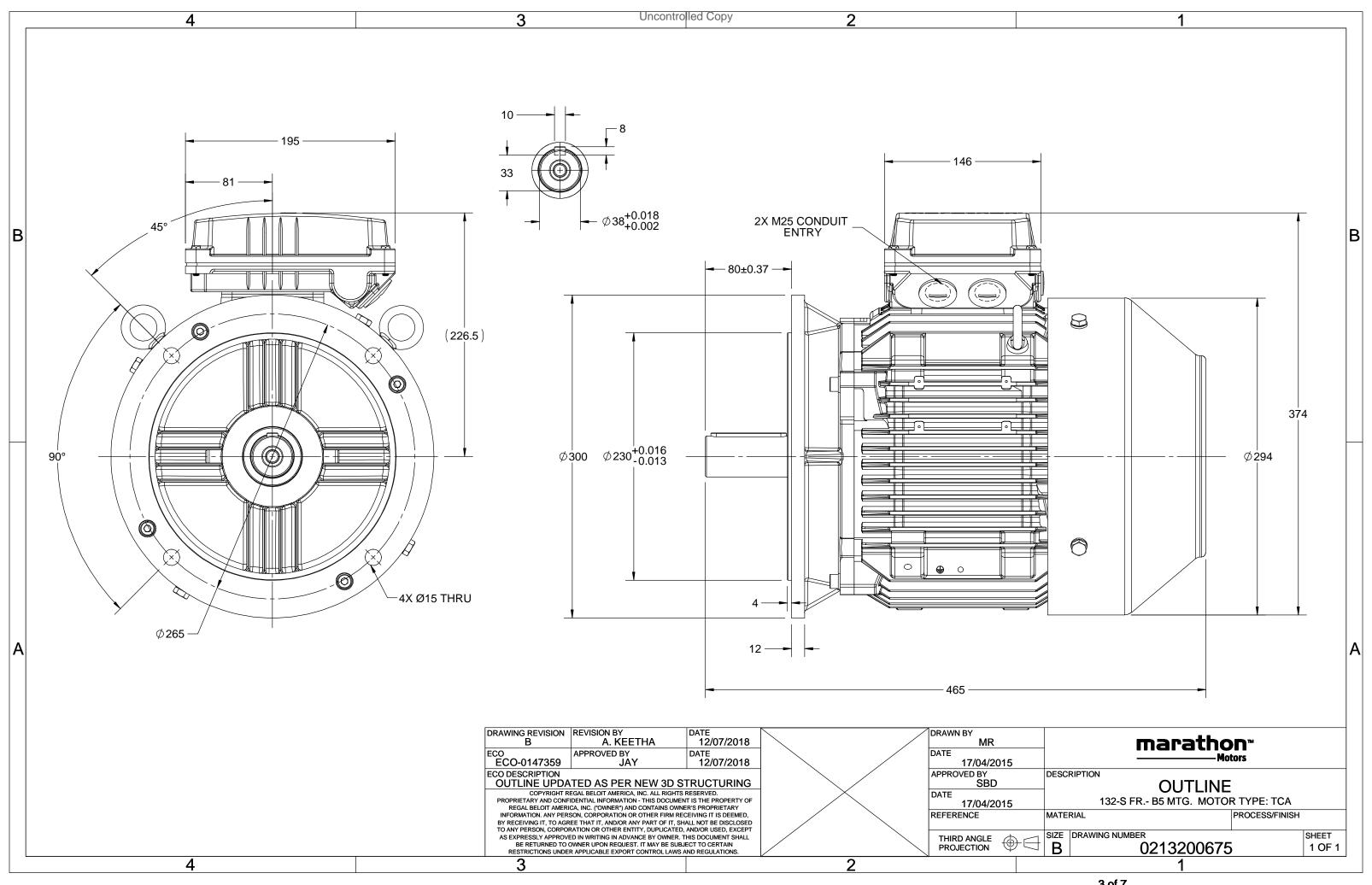
Nameplate Specifications

Output HP	7.50 Hp	Output KW	5.5 kW
Frequency	50 Hz	Voltage	400 V
Current	10.6 A	Speed	1468 rpm
Service Factor	1	Phase	3
Efficiency	89.6 %	Power Factor	0.84
Duty	S 1	Insulation Class	F
Frame	1328	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	66
Number of Speeds	1	Efficiency Class	IE3

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 mm	Shaft Extension	80 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0213200675	Connection Drawing	8442000085

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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									
	>0~6	±0.1							
LINEAR DIM	>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







Model No. TCT5P52A1121GAA001

U	Δ/Υ	f	Р	Р	I	n	T	IE	9	% EFF a	t load	t	PF	at lo	oad	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]
400	Δ	50	5.5	7.5	10.6	1468	36.4	IE3	-	89.6	89.6	89.7	0.84	0.79	0.67	6.7	2.3	2.7

Motor type	TCT	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	132S	
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	Ex tb	
Zone classification	Zone 21	
Gas group	Group III	
Temperature class	T135	
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 66	
Mounting type	IM B5	
Cooling method	IC 411	
Motor weight - approx.	85	kg
Gross weight - approx.	88	kg
Motor inertia	0.0446	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

 $T_{\rm K}/T_{\rm N}$ - Breakdown Torque / Rated Torque

NOTE

ATEX/IEC Ex certified as per IEC/EN 60079-0; IEC/EN 60079-31

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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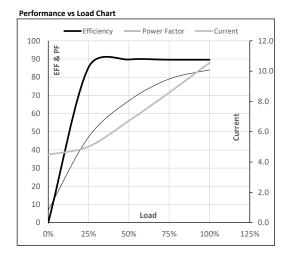




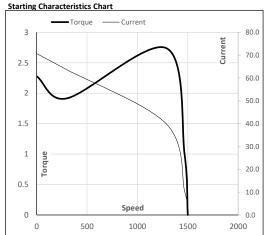
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Enclosure	U	Δ/Υ	f	Р	Р	- 1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	5.5	7.5	10.6	1468	3.71	36.40	IE3	40	S1	1000	0.0446	85

Motor Load Da	ata						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	4.5	5.0	6.7	8.6	10.6	
Torque	Nm	0.0	8.9	18.0	27.1	36.4	
Speed	r/min	1500	1492	1485	1477	1468	
Efficiency	%	0.0	85.4	89.7	89.6	89.6	
Power Factor	%	6.9	47.1	67.0	79.0	84.0	



Motor Speed	d Torque Dat	a				
Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	300	1287	1468	1500
Current	Α	70.7	63.6	39.9	10.6	4.5
Torque	pu	2.3	1.9	2.7	1	0



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

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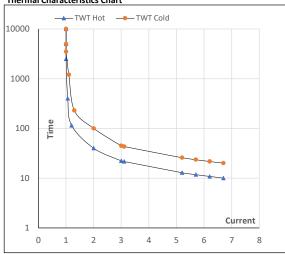
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Enclosure	U	Δ/Υ	f	Р	Р	I	n	T	T	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
TEFC	400	Δ	50	5.5	7.5	10.5	1468	3.71	36.40	IE3	40	S1	1000	0.0446	85

Motor Speed Torque Data

Load		FL	l ₁	l ₂	l ₃	I_4	I ₅	LR
TWT Hot	S	10000	40	22	20	14	12	10
TWT Cold	S	10000	100	45	40	27	23	20
Current	pu	1	2	3	4	5	6	6.7

Thermal Characteristics Chart



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

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