PRODUCT INFORMATION PACKET





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







Product Information Packet: Model No: TCT0033A1121GAA001, Catalog No:TCT0033A1121GAA001 IE3, 3kW, DUST IGNITION PROOF MOTORS, 3 phase, 6 Pole, 400V, 973RPM, 50Hz, 85.6%, 132S Frame, TEFC

marathon®

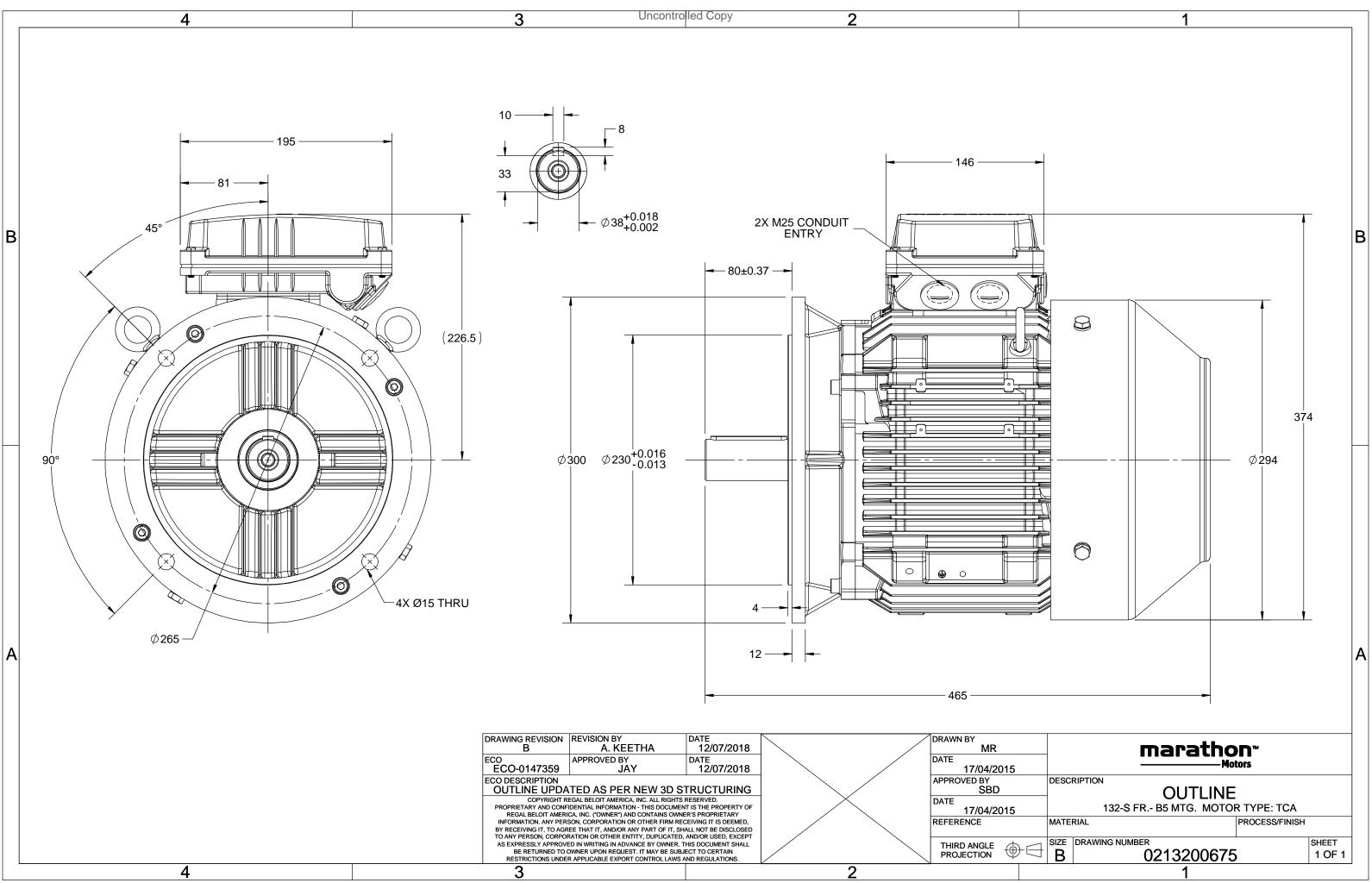
Nameplate Specifications

Output HP	4 Hp	Output KW	3.0 kW
Frequency	50 Hz	Voltage	400 V
Current	7.1 A	Speed	973 rpm
Service Factor	1	Phase	3
Efficiency	85.6 %	Power Factor	0.71
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	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	6	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

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



3 of 7







Model No. TCT0033A1121GAA001

U	Δ / Y	f	Р	Р	I	n	т	IE	ç	6 EFF a	t load	ł	PF	at _ lo	ad	I _A /I _N	T_A/T_N	$T_{\rm K}/T_{\rm N}$
(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	Y	50	3	4	7.1	973	29.34	IE3	-	85.6	85.6	84.3	0.71	0.62	0.47	5.5	2.0	2.6

Motor type	TCT		Degree of protection	IP 66	
Enclosure	TEFC		Mounting type	IM B5	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	132S		Motor weight - approx.	70	kg
Duty	S1		Gross weight - approx.	73	kg
Voltage variation *	± 10%		Motor inertia	0.0390	kgm ²
Frequency variation *	± 5%		Load inertia	Customer to Provide	
Combined variation *	10%		Vibration level	1.6	mm/s
Design	Ν		Noise level (1meter distance from mot	or) 59	dB(A)
Service factor	1.0		No. of starts hot/cold/Equally spread	2/3/4	
Insulation class	F		Starting method	DOL	
Ambient temperature	-20 to +40	°C	Type of coupling	Direct	
Temperature rise (by resistance)	80 [Class B]	к	LR withstand time (hot/cold)	15/30	s
Altitude above sea level	1000	meter	Direction of rotation	Bi-directional	
Hazardous area classification	Ex tb		Standard rotation	Clockwise form DE	
Zone classification	Zone 21		Paint shade	RAL 5014	
Gas group	Group III		Accessories		
Temperature class	T135		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	1R x 3C x 16mm²/2 x M25 x 1.5	
Type of grease	NA		Auxiliary terminal box	NA	

 $I_{\rm A}/I_{\rm N}$ - Locked Rotor Current / Rated Current $T_{\rm A}/T_{\rm N}$ - 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 60079-31

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

Standards - GB 18613-2012 Grade 2 IEC: 60034-30	Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
	Standards	-	GB 18613-2012 Grade 2	-	-	-	

REGAL

marathon®

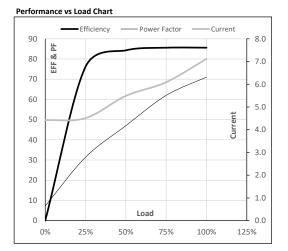


Model No. TCT0033A1121GAA001

Enclosure	U	Δ / Y	f	Р	Р	I	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	400	Y	50	3	4.0	7.1	973	2.99	29.34	IE3	40	S1	1000	0.039	70

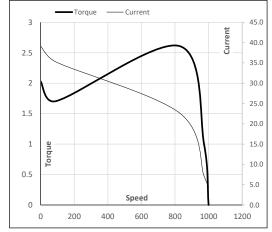
Motor Load Data

NOLOF LOAU Da	ald						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	4.4	4.5	5.5	6.1	7.1	
Torque	Nm	0.0	7.2	14.5	21.8	29.3	
Speed	r/min	1000	994	987	981	973	
Efficiency	%	0.0	76.2	84.3	85.6	85.6	
Power Factor	%	7.3	31.4	47.0	62.0	71.0	



Motor Speed	d Torque Dat	а					
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	91	827	973	1000	
Current	А	39.2	35.2	22.7	7.1	4.4	
Torque	pu	2.0	1.7	2.6	1	0	

Starting Characteristics Chart



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

Issued By Issued Date

REGAL





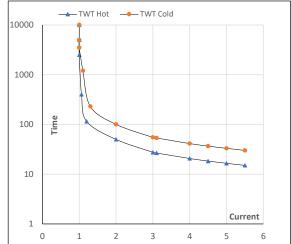
Model No. TCT0033A1121GAA001

Enclosure	U	Δ / Y	f	Р	Р	I	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	400	Y	50	3	4.0	7.1	973	2.99	29.34	IE3	40	S1	1000	0.0390	70

Motor Speed Torque Data

Load		FL	I_1	I ₂	I_3	I_4	I ₅	LR
TWT Hot	s	10000	50	28	21	18	17	15
TWT Cold	S	10000	100	55	41	37	33	30
Current	pu	1	2	3	4	4.5	5	5.5

Thermal Characteristics Chart



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

Issued By Issued Date

REGAL