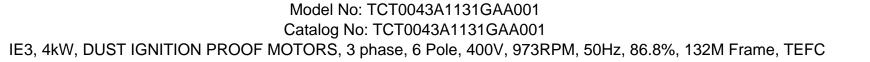
PRODUCT INFORMATION PACKET





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Motors



Product Information Packet: Model No: TCT0043A1131GAA001, Catalog No:TCT0043A1131GAA001 IE3, 4kW, DUST IGNITION PROOF MOTORS, 3 phase, 6 Pole, 400V, 973RPM, 50Hz, 86.8%, 132M Frame, TEFC

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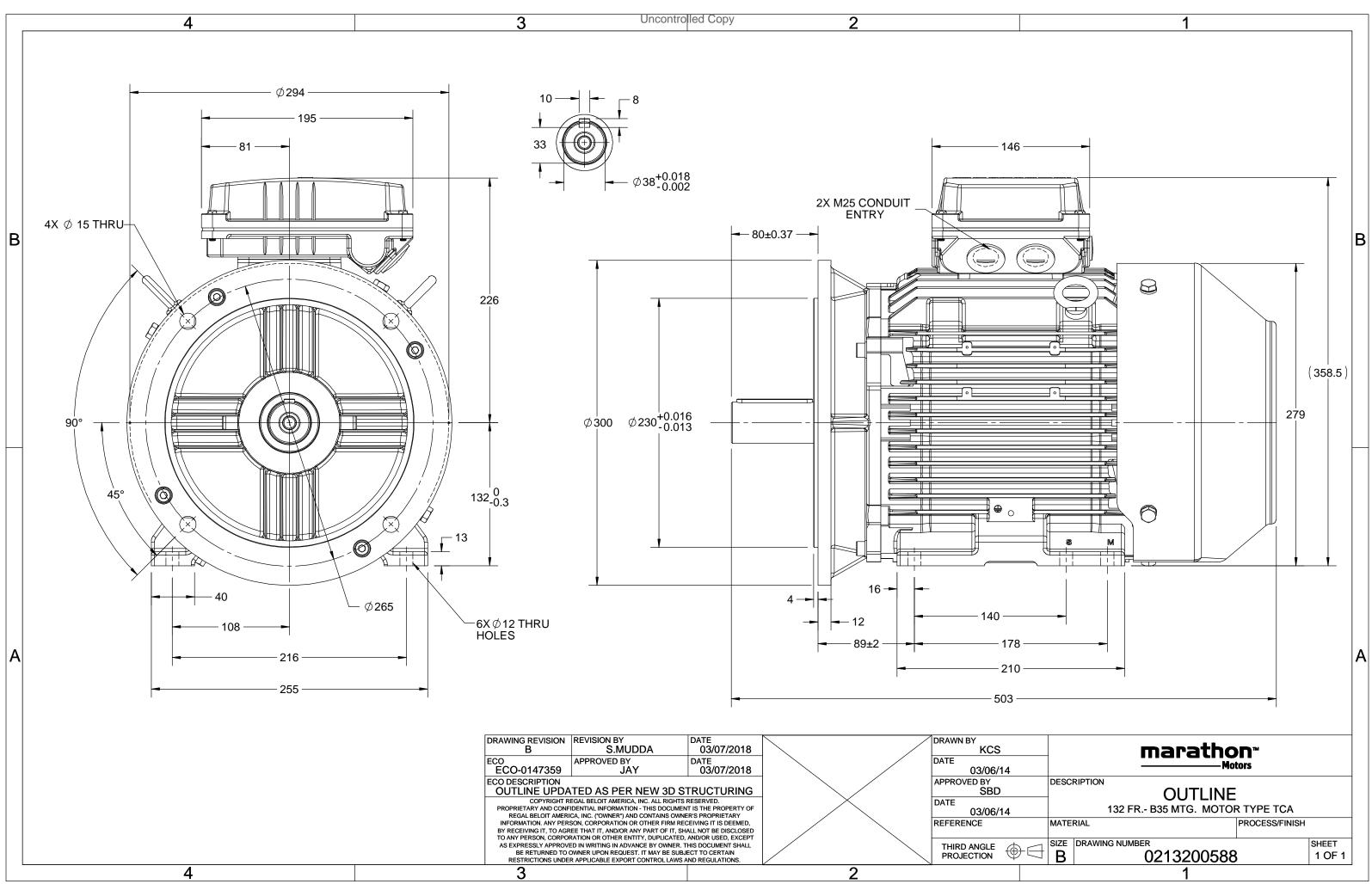
Nameplate Specifications

Output HP	5.50 Hp	Output KW	4.0 kW		
Frequency	50 Hz	Voltage	400 V		
Current	9.0 A	Speed	973 rpm		
Service Factor	1	Phase	3		
Efficiency	86.8 %	Power Factor	0.74		
Duty	S1	Insulation Class	F		
F eesers	(00) (
Frame	132M	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	132M No Protection	Ambient Temperature	40 °C		
Thermal Protection	No Protection	Ambient Temperature	40 °C		
Thermal Protection Drive End Bearing Size	No Protection 6308	Ambient Temperature Opp Drive End Bearing Size	40 °C 6208		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	Rotation	Bi-Directional
Mounting	B35	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	503 mm	Frame Length	240 mm
Shaft Diameter	38 mm	Shaft Extension	80 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0213200588	Connection Drawing	8442000085

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Model No. TCT0043A1131GAA001

U	Δ / Y	f	Р	Р	I.	n	Т	IE	9	% EFF a	t load	ł	PF	at lo	bad	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	Δ	50	4	5.5	9.0	973	40.34	IE3	-	86.8	86.8	85.9	0.74	0.65	0.5	5.6	2.1	2.6
Motor	type				тст				Der	tree of	protecti	on				IP 66		
Enclosi	••				TEFC					unting		011				IM B35		
	Material				Cast Ir	-				oling me						IC 411		
Frame					1321					0	ght - ap	orov				76		k₽
Duty	5120				S1						ht - app					79		k _é
	e variatio	n *			± 109	6				tor iner		10/.				0.0494		kgm
	ncy varia				± 5%					d inerti					Cust	omer to Provid	e	
	ned varia				10%					ration l						1.6		mm/s
Design					N				Noi	se leve	(1mete	er distar	nce fron	n motor)	59		dB(A
•	factor				1.0						、 ts hot/c					2/3/4		•
Insulat	ion class				F					rting m		, ,	, ,			DOL		
Ambiei	nt tempe	erature			-20 to -	-40		°C	Тур	e of co	upling					Direct		
Tempe	rature ri	se (by r	esistanc	e)	80 [Clas	s B]		К	LR	withsta	nd time	(hot/co	ld)			15/30		9
Altitud	e above	sea lev	el		1000)		meter	Dir	ection o	of rotatio	on			E	Bi-directional		
Hazard	ous area	classif	ication		Ex tb)			Sta	ndard r	otation				Clo	ckwise form DE		
	Zone cla	assifica	tion		Zone	21			Pai	nt shad	e					RAL 5014		
	Gas gro	up			Group	Ш			Acc	essorie	s							
	Temper	ature c	lass		T135	i				Ace	cessory -	- 1				PTC 150°C		
Rotor t	ype			Alı	uminum I	Die cast				Ace	cessory -	- 2				-		
Bearing	g type			A	nti-frictio	on ball				Ace	cessory -	- 3				-		
DE / NI	DE bearir	ng		630)8-2Z /	6208-2Z			Ter	minal b	ox posit	ion				TOP		
Lubrica	ition met	thod		G	ireased f	or life			Ma	ximum	cable siz	ze/cond	uit size	1F	R x 3C x	16mm²/2 x M2	5 x 1.5	
Type o	f grease				NA				Aux	kiliary te	erminal l	box				NA		

 I_A/I_N - Locked Rotor Current / Rated Current

T_K/T_N - Breakdown Torque / Rated Torque

 T_A/T_N - Locked Rotor 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 da	ta are subject t	o change. There may be discrepancie	s 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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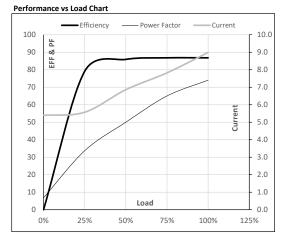


Model No. TCT0043A1131GAA001

Enclosure	U	Δ / Y	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	4	5.5	9.0	973	4.11	40.34	IE3	40	S1	1000	0.0494	76

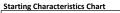
Motor	Load	Data
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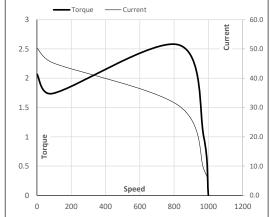
motor Loud P							
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	5.4	5.6	6.9	7.8	9.0	
Torque	Nm	0.0	9.9	19.9	30.0	40.3	
Speed	r/min	1000	994	987	980	973	
Efficiency	%	0.0	79.1	85.9	86.8	86.8	
Power Factor	%	6.8	33.7	50.0	65.0	74.0	



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	91	826	973	1000
Current	А	50.3	45.3	30.7	9.0	5.4
Torque	pu	2.1	1.7	2.6	1	0





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

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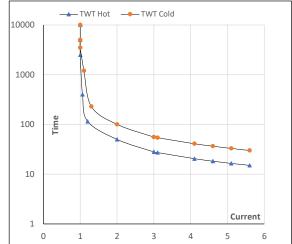
Model No. TCT0043A1131GAA001

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	Δ	50	4	5.5	9.0	973	4.11	40.34	IE3	40	S1	1000	0.0494	76

Motor Speed Torque Data

Load		FL	I_1	I ₂	I ₃	I_4	I ₅	LR
TWT Hot	S	10000	50	28	25	17	16	15
TWT Cold	S	10000	100	56	50	35	32	30
Current	pu	1	2	3	4	5	5.5	5.6

Thermal Characteristics Chart



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

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