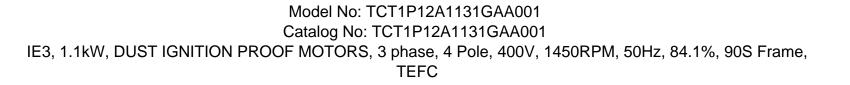
PRODUCT INFORMATION PACKET





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: TCT1P12A1131GAA001, Catalog No:TCT1P12A1131GAA001 IE3, 1.1kW, DUST IGNITION PROOF MOTORS, 3 phase, 4 Pole, 400V, 1450RPM, 50Hz, 84.1%, 90S Frame, TEFC

marathon®

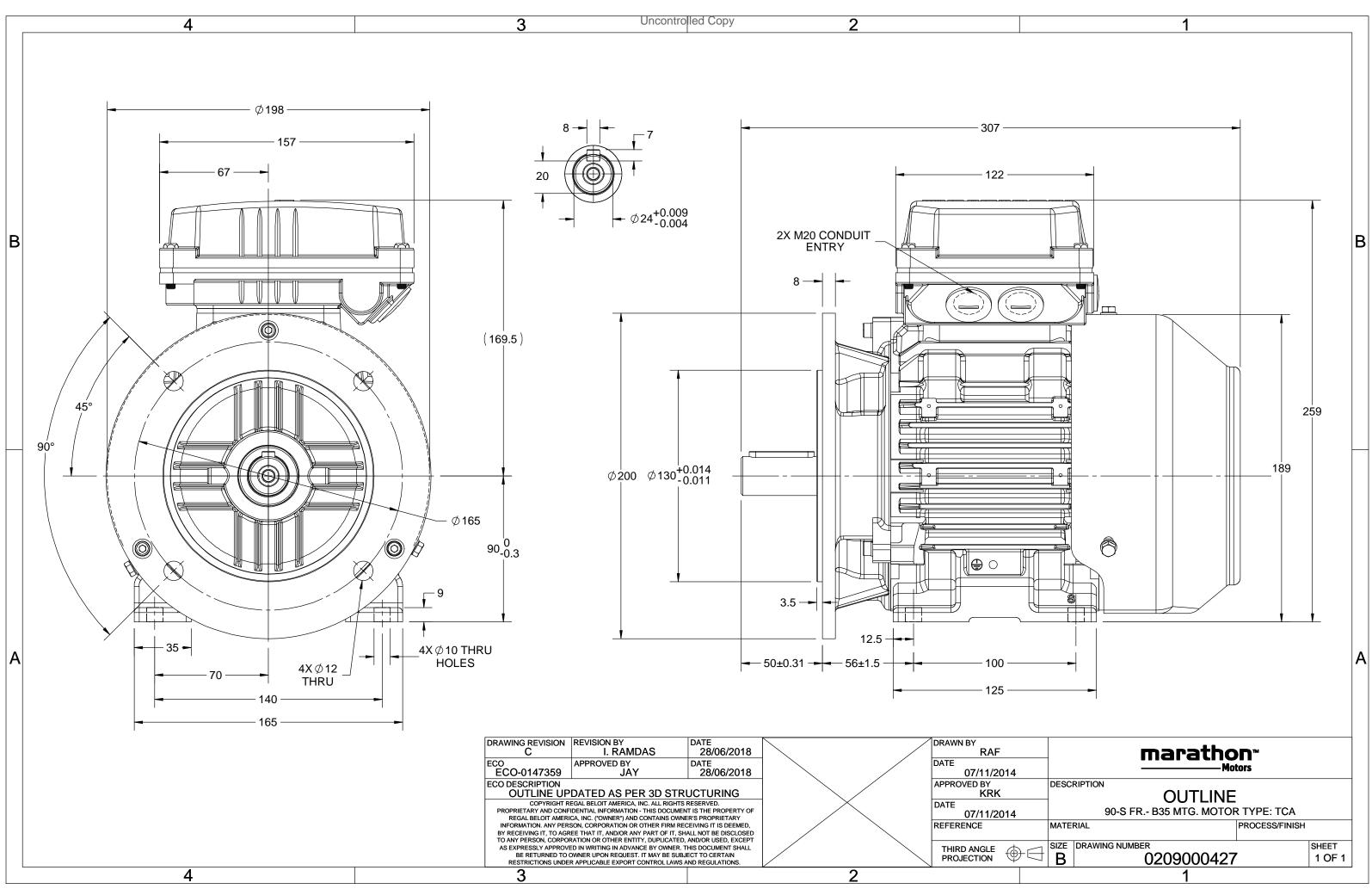
Nameplate Specifications

Output HP	1.50 Hp	Output KW	1.1 kW		
Frequency	50 Hz	Voltage	400 V		
Current	2.5 A	Speed	1450 rpm		
Service Factor	1	Phase	3		
Efficiency	84.1 %	Power Factor	0.77		
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	N	ID Cada	66		
CE	Yes	IP Code	00		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	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	307 mm	Frame Length	128 mm
Shaft Diameter	24 mm	Shaft Extension	50 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0209000427	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. TCT1P12A1131GAA001

U	Δ / Y	f	Р	Р	Ι	n	Т	IE	9	6 EFF a	t loac	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	Y	50	1.1	1.5	2.5	1450	7.36	IE3	-	84.1	84.1	79.1	0.77	0.67	0.52	6.8	2.9	3.4
Motor	type				TCT				Dee	ree of	protectio	on				IP 66		
Enclos				TEFC					Mounting type						IM B35			
Frame	Material				Cast Ir	on			Coo	Cooling method						IC 411		
Frame	size				90S				Mo	Motor weight - approx.						26		kg
Duty					S1				Gro	Gross weight - approx.						27		kg
Voltag	e variatio	on *			± 10%	6			Mo	Motor inertia						0.0045		kgm ²
Freque	ency varia	ation *			± 5%	D			Loa	d inerti	а				Custo	omer to Provi	de	
Combi	ned varia	ation *			10%				Vib	Vibration level					1.6			mm/s

Complined variation	10/0		VIDIALIOITIEVEI	1.0	11111/5
Design	Ν		Noise level (1meter distance from mot	or) 54	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	6205-2Z / 6205-2Z		Terminal box position	TOP	
Lubrication method	Greased for life		Maximum cable size/conduit size	1R x 3C x 10mm²/2 x M20 x 1.5	
Type of grease	NA		Auxiliary terminal 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 discrepancies	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

marathon[®] Motors



Model No. TCT1P12A1131GAA001

		Elevation	Duty	Amb	IE	Т	Т	n	1	Р	Р	f	Δ / Y	U	Enclosure
[kg]	[kg-m ²]	[m]		[°C]	Class	[Nm]	[kgm]	[RPM]	[A]	[hp]	[kW]	[Hz]	Conn	(V)	
26	0.0045	1000	S1	40	IE3	7.36	0.75	1450	2.5	1.5	1.1	50	Y	400	TEFC
	0.0045	1000	51	40	IE3	7.36	0.75	1450	2.5	1.5	1.1	50	Y	400	TEFC

Motor Load Data

Motor Speed Torque Data

r/min

А

pu

LR

0

16.7

2.9

P-Up

300

15.0

2.4

BD

1079

10.2

3.4

Rated

1450

2.5

1

NL

1500

1.6

0

Load Point

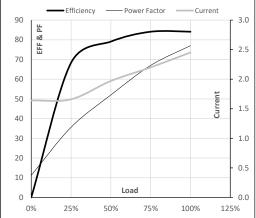
Speed

Current

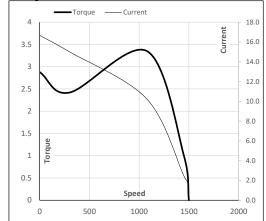
Torque

Motor Load Da	ata						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	1.6	1.7	2.0	2.2	2.5	
Torque	Nm	0.0	1.8	3.6	5.5	7.4	
Speed	r/min	1500	1487	1476	1464	1450	
Efficiency	%	0.0	68.3	79.1	84.1	84.1	
Power Factor	%	11.2	35.6	52.0	67.0	77.0	

Performance vs Load Chart



Starting Characteristics Chart



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

Issued By

Issued Date

REGAL





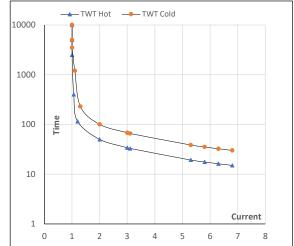
Model No. TCT1P12A1131GAA001

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	1.1	1.5	2.5	1450	0.75	7.36	IE3	40	S1	1000	0.0045	26

Motor Speed Torque Data

Load		FL	I_1	I ₂	I ₃	I_4	I ₅	LR
TWT Hot	S	10000	50	34	29	23	17	15
TWT Cold	S	10000	100	68	55	45	34	30
Current	pu	1	2	3	4	5	6	6.8

Thermal Characteristics Chart



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

Issued By Issued Date

REGAL