PRODUCT INFORMATION PACKET





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Motors

Product Information Packet: Model No: TCT0372A1141GAA001, Catalog No:TCT0372A1141GAA001 IE3, 37kW, DUST IGNITION PROOF MOTORS, 3 phase, 4 Pole, 400V, 1484RPM, 50Hz, 93.9%, 225S Frame, TEFC

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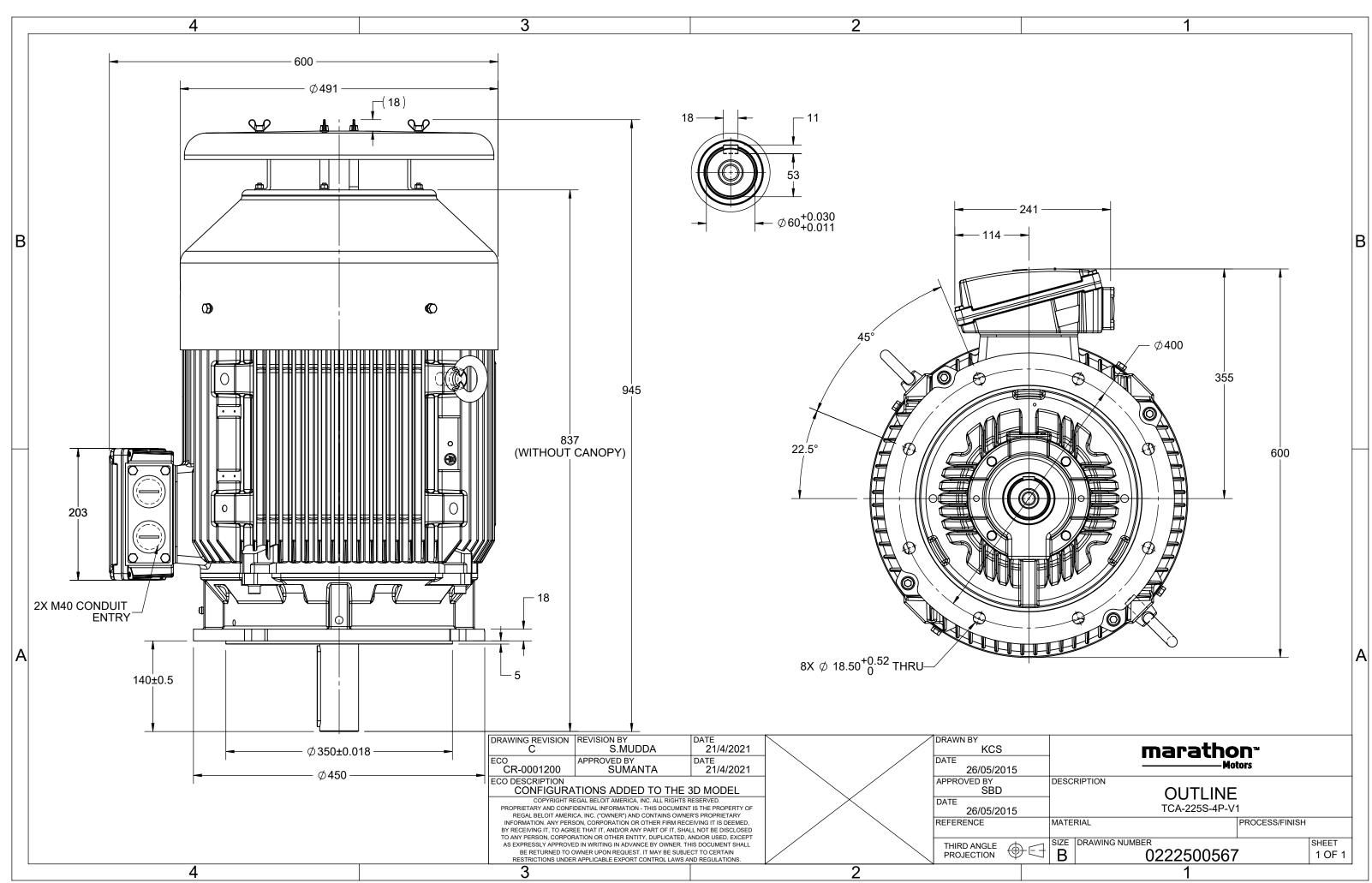
Nameplate Specifications

Output HP	50 Hp	Output KW	37.0 kW
Frequency	50 Hz	Voltage	400 V
Current	66.9 A	Speed	1484 rpm
Service Factor	1	Phase	3
Efficiency	93.9 %	Power Factor	0.85
Duty	S1	Insulation Class	F
Frame	2258	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6313	Opp Drive End Bearing Size	6213
UL	Νο	CSA	No
CE	Yes	IP Code	66
Number of Speeds	4	Efficiency Class	IE3

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line		
Poles	4	Rotation	Bi-Directional		
Mounting	V1	Motor Orientation	Shaftdown		
Drive End Bearing	C3	Opp Drive End Bearing	C3		
Frame Material	Cast Iron	Shaft Type	Keyed		
Overall Length	943 mm	Frame Length	400 mm		
Shaft Diameter	60 mm	Shaft Extension	140 mm		
Assembly/Box Mounting	Тор				
Connection Drawing	8442000085	Outline Drawing	0222500567		

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Model No. TCT0372A1141GAA001

			1															
U	Δ / Y	f	Р	Р	1	n	Т	IE	9	6 EFF a	t load	k	PF	at lo	bad	I_A/I_N	T_A/T_N	T_{K}/T_{N}
(∨)	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	37	50	66.9	1484	239.99	IE3	-	93.9	93.9	94	0.85	0.81	0.71	7.3	2.4	3.1
L																		
Motor	tyne				тст				Dea	ree of	orotecti	on				IP 66		

wotor type			Degree of protection	IF 00	
Enclosure	TEFC		Mounting type	IM V1	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	2255		Motor weight - approx.	394	kg
Duty	S1		Gross weight - approx.	424	kg
Voltage variation *	± 10%		Motor inertia	0.6683	kgm ²
Frequency variation *	± 5%		Load inertia	Customer to Provide	
Combined variation *	10%		Vibration level	2.2	mm/s
Design	Ν		Noise level (1meter distance from moto	r) 65	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 resistan	ce) 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	6313 C3/6213 C3		Terminal box position	TOP	
Lubrication method	Regreasable		Maximum cable size/conduit size 1	R x 3C x 50mm²/2 x M40 x 1.5	
Type of grease	CHEVRON SRI-2 or Equivalent		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 da	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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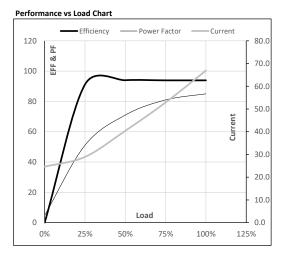


Model No. TCT0372A1141GAA001

[RPM] [kgr	gm] [Nm]	C 1	[00]			- 2-	
	ginij [ivinij	Class	[°C]		[m]	[kg-m ²]	[kg]
1484 24.4	.47 239.99	IE3	40	S1	1000	0.6683	394
				· · · · · · · · · · · · · · · · · · ·			

Motor Load Data

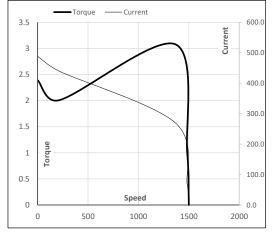
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	24.6	28.9	40.4	52.9	66.9	
Torque	Nm	0.0	59.5	119.3	179.5	240.0	
Speed	r/min	1500	1496	1492	1488	1484	
Efficiency	%	0.0	91.2	94.0	93.9	93.9	
Power Factor	%	4.8	51.1	71.0	81.0	85.0	



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	214	1365	1484	1500
Current	А	488.4	439.6	270.1	66.9	24.6
Torque	pu	2.4	2.0	3.1	1	0

Starting Characteristics Chart



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

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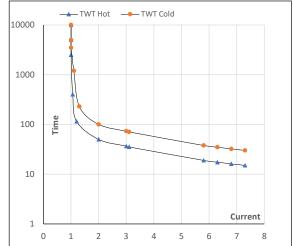
Model No. TCT0372A1141GAA001

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	37	50	66.9	1484	24.47	239.99	IE3	40	S1	1000	0.6683	394

Motor Speed Torque Data

Load		FL	I_1	I ₂	I ₃	I_4	I ₅	LR
TWT Hot	s	10000	50	37	29	23	18	15
TWT Cold	S	10000	100	73	55	45	36	30
Current	pu	1	2	3	4	5	6	7.3

Thermal Characteristics Chart



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

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