PRODUCT INFORMATION PACKET

Model No: TCAP753A3113GACD01 Catalog No: TCAP753A3113GACD01 Cast Iron Motor, 1 HP, 3 Ph, 50 Hz, 415 V, 1000 RPM, 90S Frame, TEFC



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Nameplate Specifications

Phase	3	Output HP	1 Нр
Output KW	0.75 kW	Voltage	415 V
Speed	944 rpm	Service Factor	1
Frame	90S	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	78.9 %
Ambient Temperature	50 °C	Frequency	50 Hz
Current	2.0 A	Power Factor	0.66
Duty	S1	Insulation Class	F
Drive End Bearing Size	6205	Opp Drive End Bearing Size	6205
UL	No	CSA	No
CE	Yes	IP Code	55
Number of Speeds	1	Efficiency Class	IE3

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	Rotation	Bi-Directional
Mounting	B3	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	R Side		
Connection Drawing	8442000085		

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<u></u>	A / 37			_			-	15			11					1.4	T /T	T /T
U	Δ / Y	f	Р	Р	1	n	Т	IE		% EFF at _				at _ lo		I _A /I _N		$T_{\rm K}/T_{\rm N}$
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL		1/2FL	FL		1/2FL	[pu]	[pu]	[pu]
415	Y	50	0.75	1.0	2.0	944	7.54	IE3	-	78.9	78.9	73	0.66	0.55	0.4	4.9	3.0	3.1
								ll										
Motor	tyne				TCA				D	egree of	nrotecti	on				IP 55		
Enclos					TEFC					Nounting		011				IM B3		
	Materia	1			Cast Ir					ooling m						IC 411		
	ame size 90S							lotor wei		nrox				24.5		kg		
Duty	5120				S1					Gross weight - approx.					25.5			kg
	e variatio	on *			± 109	%				lotor ine					0.0036		kgm ²	
	ency varia				± 5%	, b				oad inert					Custo	omer to Provi	de	
	ned varia				10%				v	ibration l	evel					1.6		mm/s
Design		Ν					N	loise leve	l (1met	er distaı	nce fron	n motor)	51		dB(A)		
Service	rvice factor 1.0					N	lo. of star	ts hot/c	old/Equ	ally spr	ead	2/3/4						
Insulat	ion class				F					tarting m			, ,			DOL		
Ambie	nt tempe	erature			-20 to -	+50		°C	Т	ype of co	upling					Direct		
Tempe	erature ri	se (by i	resistand	ce)	70 [Clas	s B]		К	L	R withsta	nd time	(hot/co	ld)			15/30		s
Altituc	le above	sea lev	el		1000)		meter	D	irection o	of rotati	on			В	i-directional		
Hazaro	lous area	a classif	ication		NA				S	tandard r	otation				Cloc	kwise form D	E	
	Zone cl	assifica	tion		NA				P	aint shad	e					RAL 5014		
	Gas gro	up			NA				A	ccessorie	s							
	Temper	ature o	lass		NA					Ac	cessory	- 1				-		
Rotor	type			Al	uminum	Die cast				Ac	cessory	- 2				-		
Bearin	g type			Anti-	friction b	all bearing				Ac	cessory	- 3				-		
DE / N	DE beari	ng		62	05-2Z /	6205-2Z			Т	erminal b	ox posit	ion				RHS		
Lubric	ation me	thod		0	Greased f	or life			N	1aximum	cable si	ze/cond	uit size	1R	x 3C x 1	10mm²/2 x M2	20 x 1.5	
Type o	f grease				NA				A	uxiliary t	erminal	box				NA		

 I_A/I_N - Locked Rotor Current / Rated Current

 $T_{\text{A}}/T_{\text{N}}$ - Locked Rotor Torque / Rated Torque

NOTE

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	-	-	IS 12615 : 2018	-	-	-



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

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Model No. TCAP753A3113GACD01

Enclosure	U	Δ / Y	f	Р	Р	I	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	415	Y	50	0.75	1	2.0	944	0.77	7.54	IE3	50	S1	1000	0.0036	25

Motor Load Data

Motor Speed Torque Data

r/min

А

ри

Load Point

Speed

Current

Torque

				3/4FL	FL	5/4FL
A	1.5	1.6	1.6	1.7	2.0	
Nm	0.0	2.4	4.9	7.5	7.5	
nin 1	.000	986	973	960	944	
%	0.0	59.8	73.0	78.9	78.9	
% 1	1.4	28.5	40.0	55.0	66.0	
	Nm nin 1 %	Nm 0.0 nin 1000 % 0.0	Nm 0.0 2.4 nin 1000 986 % 0.0 59.8	Nm 0.0 2.4 4.9 nin 1000 986 973 % 0.0 59.8 73.0	Nm 0.0 2.4 4.9 7.5 nin 1000 986 973 960 % 0.0 59.8 73.0 78.9	Nm 0.0 2.4 4.9 7.5 7.5 nin 1000 986 973 960 944 % 0.0 59.8 73.0 78.9 78.9

P-Up

91

8.8

2.5

LR

0

9.8

3.0

BD

544

6.8

3.1

Rated

944

2.0

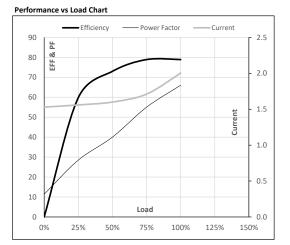
1

NL

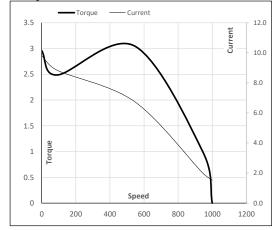
1000

1.5

0



Starting Characteristics Chart



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

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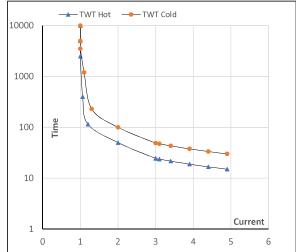
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	415	Y	50	0.75	1.0	2.0	944	0.77	7.54	IE3	50	S1	1000	0.0036	24.5

Motor Speed Torque Data

wotor speed	Motor Speed Torque Data												
Load		FL	I_1	I_2	I_3	I_4	ا5	LR					
TWT Hot	s	10000	50	25	21	18	16	15					
TWT Cold	s	10000	100	49	42	36	32	30					
Current	pu	1	2	3	3.5	4	4.5	4.9					

Thermal Characteristics Chart



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

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