## **PRODUCT INFORMATION PACKET**

Model No: TCAP752A3133GACD01 Catalog No: TCAP752A3133GACD01 Cast Iron Motor, 1 HP, 3 Ph, 50 Hz, 415 V, 1500 RPM, 80M Frame, TEFC



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### Nameplate Specifications

Phase	3	Output HP	1 Hp		
Output KW	0.75 kW	Voltage	415 V		
Speed	1446 rpm	Service Factor	1		
Frame	80M	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Efficiency	82.5 %		
Ambient Temperature	50 °C	Frequency	50 Hz		
Current	1.6 A	Power Factor	0.77		
Duty	S1	Insulation Class	F		
Drive End Bearing Size	6204	Opp Drive End Bearing Size	6204		
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	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	281 mm	Frame Length	140 mm
Shaft Diameter	19 mm	Shaft Extension	40 mm
Assembly/Box Mounting	R Side		
Connection Drawing	8442000085		

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#### Model No. TCAP752A3133GACD01

	$\Delta / Y$	4				-	<b>.</b>	15			المعط			·		1.4	т /т	т /т
U		f	P	P		n	Т	IE		% EFF at _				at lo		I <sub>A</sub> /I <sub>N</sub>		$T_{K}/T_{N}$
(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	1.6	1446	4.93	IE3	-	82.5	82.5	78.9	0.77	0.68	0.54	6.5	2.9	3.0
			ļ															
Motor	type				TCA				D	egree of	protecti	on				IP 55		
Enclos	ure				TEFC	2			N	lounting	type					IM B35		
Frame	Frame Material Cast Iron						С	ooling m	ethod					IC 411				
Frame	size				80N	1			N	lotor wei	ght - ap	prox.	23.7			kg		
Duty					S1				G	Gross weight - approx.						24.7		
Voltag	e variati	on *			± 109	6			N	lotor ine	rtia				0.0034			kgm <sup>2</sup>
Freque	ency vari	ation *			± 5%	ó			L	oad inert	ia				Custo	omer to Provi	de	
Combi	ombined variation * 10%					V	ibration l	evel					1.6		mm/s			
Design	esign N					N	oise leve	l ( 1met	er distai	nce fron	n motor	.)	54		dB(A)			
Service	e factor				1.0				N	o. of star	ts hot/c	old/Equ	ally spr	ead		2/3/4		
Insulat	tion class	5			F				S	Starting method						DOL		
Ambie	nt temp	erature	•		-20 to -	+50		°C	T	Type of coupling						Direct		
Tempe	erature ri	ise (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	vel		1000	)		meter	D	Direction of rotation					В	i-directional		
Hazaro	dous area	a classif	fication		NA				S	Standard rotation					Cloc	kwise form D	E	
	Zone cl	assifica	ition		NA				Р	aint shad	e					RAL 5014		
	Gas gro	up			NA				A	ccessorie	S							
	Temper	rature o	class		NA					Ac	cessory	- 1				-		
Rotor	type			Al	uminum	Die cast				Accessory - 2					-			
Bearin	g type			Anti-	friction b	all bearing				Ac	cessory	- 3				-		
DE / N	DE beari	ng		62	04-2Z /	6204-2Z			Т	Terminal box position					RHS			
Lubric	ation me	thod		C	Greased f	or life			N	Maximum cable size/conduit size 1R					1R x 3C x 10mm²/2 x M20 x 1.5			
Туре о	of grease				NA				A	uxiliary t	erminal	box				NA		

 $\rm I_A/\rm I_N$  - 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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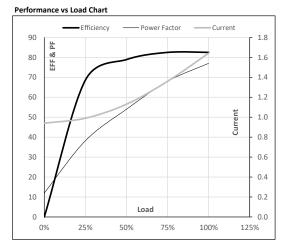


Model No. TCAP752A3133GACD01

Enclosure	U	$\Delta / Y$	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 <sup>2</sup> ]	[kg]
TEFC	415	Y	50	0.75	1.0	1.6	1446	0.50	4.93	IE3	50	S1	1000	0.0034	24

#### Motor Load Data

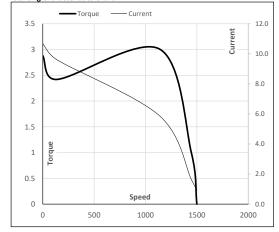
				3/4FL	FL	5/4FL
A	0.9	1.0	1.1	1.4	1.6	
Nm	0.0	1.6	3.3	4.9	4.9	
min	1500	1486	1474	1461	1446	
%	0.0	68.6	78.9	82.5	82.5	
%	12.0	38.2	54.0	68.0	77.0	
	Nm min %	Nm 0.0   min 1500   % 0.0	Nm 0.0 1.6   min 1500 1486   % 0.0 68.6	Nm 0.0 1.6 3.3   min 1500 1486 1474   % 0.0 68.6 78.9	Nm 0.0 1.6 3.3 4.9   min 1500 1486 1474 1461   % 0.0 68.6 78.9 82.5	Nm 0.0 1.6 3.3 4.9 4.9   min 1500 1486 1474 1461 1446   % 0.0 68.6 78.9 82.5 82.5



#### Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	136	1136	1446	1500
Current	А	10.7	9.6	5.9	1.6	0.9
Torque	pu	2.9	2.4	3.0	1	0

Starting Characteristics Chart



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

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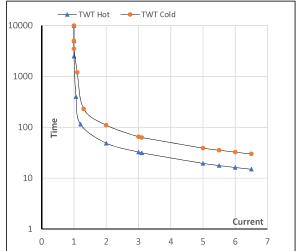
Model No. TCAP752A3133GACD01

Enclosure	U	$\Delta / Y$	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 <sup>2</sup> ]	[kg]
TEFC	415	Y	50	0.75	1.0	1.6	1446	0.50	4.93	IE3	50	S1	1000	0.0034	23.7

#### Motor Speed Torque Data

wotor speed	a torq	ue Data						
Load		FL	$I_1$	$I_2$	$I_3$	$I_4$	ا5	LR
TWT Hot	s	10000	49	33	30	20	18	15
TWT Cold	s	10000	110	65	55	39	36	30
Current	pu	1	2	3	4	5	5.5	6.5

Thermal Characteristics Chart



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

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