PRODUCT INFORMATION PACKET



Model No: TCAP753A3181GACD01 Catalog No: TCAP753A3181GACD01 Cast Iron Motor, 1 HP, 3 Ph, 50 Hz, 415 V, 1000 RPM, 90S Frame, TEFC



Regal and Marathon are trademarks of Regal Rexnord Corporation or one of its affiliated companies. ©2024 Regal Rexnord Corporation, All Rights Reserved. MC017097E



Product Information Packet: Model No: TCAP753A3181GACD01, Catalog No:TCAP753A3181GACD01 Cast Iron Motor, 1 HP, 3 Ph, 50 Hz, 415 V, 1000 RPM, 90S Frame, TEFC



Nameplate Specifications

Phase	3	Output HP	1 Hp
Output KW	0.75 kW	Voltage	415 V
Speed	944 rpm	Service Factor	1
Frame	90\$	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	B14B	Motor Orientation	Shaftdown
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		
Connection Drawing	8442000085		

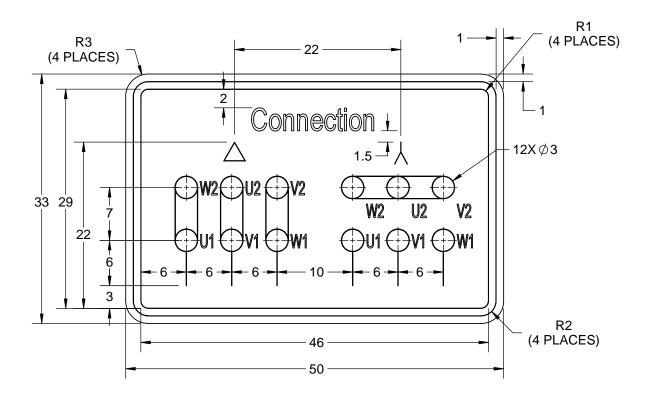
This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:04/03/2024

COPYRIGHT REGAL BELOIT AMERICA, INC. ALL RUSTING FRENCHED COPY PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED, BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.

DRAWING REVISION A	REVISION BY SN	DATE 13/01/2017
ECO-0116390	APPROVED BY SBD	DATE 13/01/2017
ECO DESCRIPTION		

NEW DRAWING RELEASE

GEOMENTRIC TOLERANCE									
	>0~6	±0.1							
LINEAR DIM	>6~30	±0.2							
	>30~120	±0.3							



NOTES:

- 1.
- 2.
- PRESSURE-SENSITIVE ADHESIVE COATED PAPER ON THE BACK OF SELF-ADHESIVE. AT THE END OF YELLOW, WORDS, SYMBOLS, LETTERS ARE BLACK, BORDER IS BLACK. THE TOLERANCE OF THE LINEAR SIZE OF THE TOLERANCE WITHOUT THE TOLERANCE 3. BY THE TABLE.

8WD.442.2017





TerraMAX[®]

Model No. TCAP753A3181GACD01

U	Δ/Υ	f	Р	Р	I	n	Т	IE	%	EFF at _	_ load		PF	at lo	ad	I_A/I_N	T_A/T_N	T_K/T_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]
415	Υ	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

Motor type	TCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	90S	
Duty	S1	
Voltage variation *	± 10%	
Frequency variation *	± 5%	
Combined variation *	10%	
Design	N	
Service factor	1.0	
Insulation class	F	
Ambient temperature	-20 to +50	°C
Temperature rise (by resistance)	70 [Class B]	K
Altitude above sea level	1000	meter
Hazardous area classification	NA	
Zone classification	NA	
Gas group	NA	
Temperature class	NA	
Rotor type	Aluminum Die cast	
Bearing type	Anti-friction ball bearing	
DE / NDE bearing	6205-2Z / 6205-2Z	
Lubrication method	Greased for life	
Type of grease	NA	

Degree of protection	IP 55	
Mounting type	IM B14B	
Cooling method	IC 411	
Motor weight - approx.	25.2	kg
Gross weight - approx.	26.2	kg
Motor inertia	0.0036	kgm²
Load inertia	Customer to Provide	
Vibration level	1.6	mm/s
Noise level (1meter distance from mot	tor) 51	dB(A)
No. of starts hot/cold/Equally spread	2/3/4	
Starting method	DOL	
Type of coupling	Direct	
LR withstand time (hot/cold)	15/30	S
Direction of rotation	Bi-directional	
Standard rotation	Clockwise form DE	
Paint shade	RAL 5014	
Accessories		
Accessory - 1	-	
Accessory - 2	-	
Accessory - 3	-	
Terminal box position	TOP	
Maximum cable size/conduit size	1R x 3C x 10mm ² /2 x M20 x 1.5	
Auxiliary terminal box	NA	

 $\rm I_A/I_N$ - Locked Rotor Current / Rated Current

 T_A/T_N - Locked Rotor Torque / Rated Torque

 T_K/T_N - Breakdown 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	-	-	_

REGAL

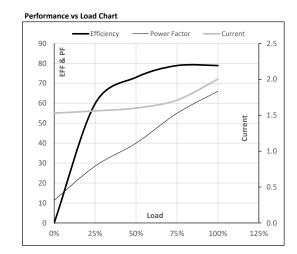




Model No. TCAP753A3181GACD01

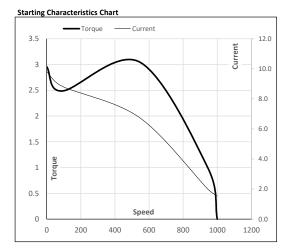
Enclosure	U	Δ/Υ	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	415	Υ	50	0.75	1	2.0	944	0.77	7.54	IE3	50	S1	1000	0.0036	25

Motor Load D	ata						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	1.5	1.6	1.6	1.7	2.0	
Torque	Nm	0.0	2.4	4.9	7.5	7.5	
Speed	r/min	1000	986	973	960	944	
Efficiency	%	0.0	59.8	73.0	78.9	78.9	
Power Factor	%	11.4	28.5	40.0	55.0	66.0	



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	91	544	944	1000	
Current	Α	9.8	8.8	6.8	2.0	1.5	
Torque	pu	3.0	2.5	3.1	1	0	



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

Issued By Issued Date

REGAL

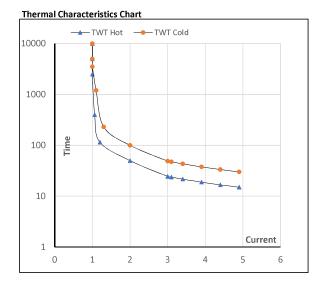




Model No. TCAP753A3181GACD01

	J 4/1	T	l P	Р	- 1	n	T	T	ΙE	Amb	Duty	Elevation	Inertia	Weight
(V	/) Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC 41	15 Y	50	0.75	1.0	2.0	944	0.77	7.54	IE3	50	S1	1000	0.0036	25.2

Motor Speed Torque Data LR Load FL s 10000 15 TWT Hot TWT Cold s 10000 100 42 36 32 30 Current 1 3 3.5 4 4.5 4.9 pu



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

Issued By Issued Date

REGAL