



---

# Customer information packet

## CD2003R-2

3HP 1750/2300 240/240V C1811ATCZ SPG

## Specifications

Armature Voltage	240 V
Base Speed	1750 rpm
Enclosure	DP
Field Voltage	240 V
Frame	C1811ATCZ
Output Power	3.000 HP
Agency Approvals	CCSA US
Ambient Temperature	40 °C
Armature Current	11.0 a
Drip Cover	No Drip Cover
Duty Rating	CONT
Feedback Device	NO FEEDBACK
Field Winding Type	STAB SHUNT
Frame Prefix	C
Heater Indicator	No Heater
Insulation Class	F
Lifting Lugs	Standard Lifting Lugs
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	26.50 IN
Service Factor	1.00
Shaft Diameter	1.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Slinger Indicator	No Slinger
Thermal Device - Bearing	None

## Part detail

Revision	-
Type	DC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	G2201C B
Layout	609980-023
Eff. date	12-13-2019
CD Diagram	406770-001
Poles	00
Leads	
Proprietary	False
Created date	12-12-2019

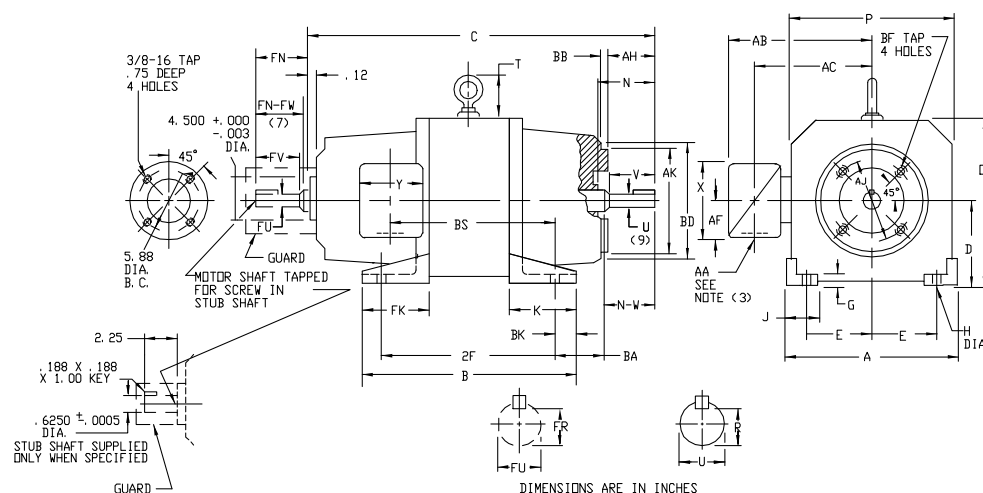
## Nameplate

000613006HP									
CAT.NO.		SPEC NO.	T18S1009						
FR		HP	3		DUTY	CONT			
ENCL.	DP	RPM	1750/2300		S.F.	1.0			
ENCL MOD	GUARDED	VOLTS	240		INSUL		F		
MAX SAFE SPEED	2450	AMPS	11.00		AMB.	40			
	FIELD DATA	SER.NO.							
WINDING	STAB SHUNT	POWER CODE	C						
VOLTS	240	D.E. BRG.	40BC02J30X						
MAX AMPS @ 25 C	.99	O.D.E. BRG.	30BC02J30X						
HOT AMPS	.74/.38	MIN. AMB.	0		TYPE	TR			
	BRUSH:419904051AB								
	SPLASHPROOF								

## INDUSTRIAL DIRECT CURRENT MOTORS AND GENERATORS – RPM III

ENCLOSURE: DRIP-PROOF FULLY-GUARDED  
SPLASHPROOF, TOTALLY ENCLOSEDMOUNTING: FOOT, NEMA AC "C" FACE  
METHOD OF DRIVE: COUPLED OR BELTEDCOOLING: SELF-VENTILATED  
NON-VENTILATEDACCESSORIES: PROVISION FOR  
TACHOMETER MOUNTING  
ONLY WHEN SPECIFIED

## FRAMES C180ATCZ



DIMENSIONS ARE IN INCHES

FRAME	A	DK(1)	E	G	H	J	D	P	T	BA	K	FK	BK	BB	BD	BF TAP	BF TAP 'DEPTH'	AJ	AK(8)
C1811ATCZ-C1812ATCZ	9.00	4.50	3.75	.31	.44	1.50	8.88	8.75	1.88	2.75	4.38	4.38	.50	.25	8.75	1/2-13	.88	7.25	8.500

FRAME	C(10)	B	BS	2F	DRIVE END SHAFT AND KEY (9)								OPPOSITE DRIVE END SHAFT AND KEY (7)								WT.
					AH	N	N-W	UK(2)	V	R(4)	SQ.	LGTH	FN	FN-FW	FUK(2)	FV	FR(4)	SQ.	LGTH.	LBS.	
C1811ATCZ	24.06	14.00	11.00	12.50	2.62	3.12	2.88	1.1250	2.62	.986	.250	1.75	2.44	2.25	1.1250	2.00	.986	.250	1.38	180	
C1812ATCZ	25.56	15.50	12.50	14.00	2.62	3.12	2.88	1.1250	2.62	.986	.250	1.75	2.44	2.25	1.1250	2.00	.986	.250	1.38	215	

STEEL TERMINAL BOX DIMENSIONS																			
FRAME	MAX. AMPS	STANDARD SIZE						PART		ONE SIZE LARGER						PART			
		AA(5)	AB	AC	AF	X	Y	NUMBER		AA(5)	AB	AC	AF	X	Y	NUMBER			
C180ATCZ	40	3/4 & 1"	7.31	5.75	1.94	4.38	5.00	705028-1-R		1-1/4 & 1-1/2	8.31	6.31	2.50	5.50	6.12	705029-1-R			
	96	1-1/4 & 1-1/2	8.31	6.31	2.50	5.50	6.12	705029-1-R		2" & 2-1/2	9.44	6.69	3.19	7.00	7.62	705030-1-R			

CAST IRON TERMINAL BOX DIMENSIONS																			
FRAME	MAX AMPS	STANDARD SIZE						PART NUMBER		ONE SIZE LARGER						PART NUMBER			
		AA(6)	AB	AC	AF	X	Y			AA(6)	AB	AC	AF	X	Y				
C180ATCZ	18	3/4	9.38	7.38	2.50	5.00	5.75	705028-2-S	1	9.38	7.38	2.50	5.00	5.75	705028-2-T				
	40	1	9.38	7.38	2.50	5.00	5.75	705028-2-T	1-1/2	10.31	7.88	3.00	6.00	7.00	705029-2-R				
	96	1-1/2	10.31	7.88	3.00	6.00	7.00	705029-2-R	2	10.31	7.88	3.00	6.00	7.00	705029-2-S				

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

REV. DESC: REVISE "D" DIMENSION TOLERANCE	VERSION: 02	TDR: 000001150521
REV. LTR: B	FILE: \RGG\00030\981	REVISD: 12:00:27 10/06/2020
MTL: -	BY: RGGNAS	

BALDOR - RELIANCE®

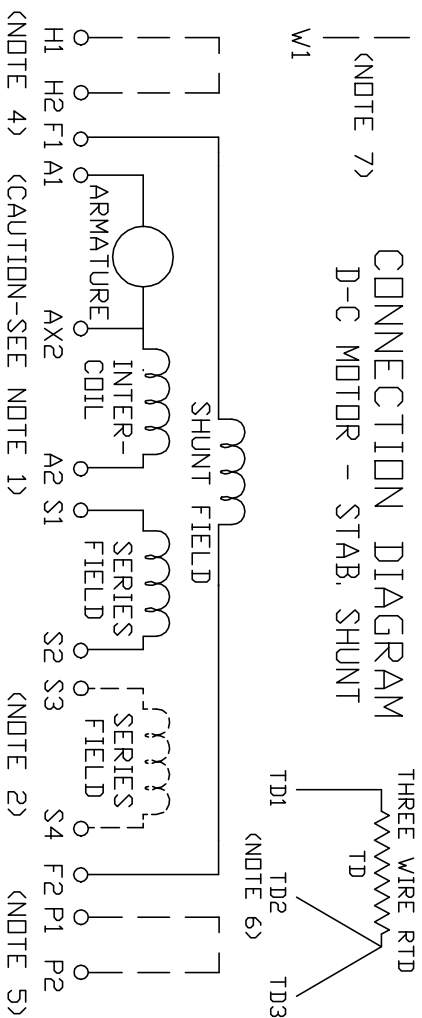
DIMENSION DRAWING, C180ATCZ, TENV, DPP, FOOT MTG., NEMA AC C-FACE

SH 1 of 1

609980-023

609980-023

406770-001



## ARMATURE AND FIELD EXTERNAL CONNECTIONS

WARNING- SEE NOTE 8 FOR GROUNDING INSTRUCTIONS



ROTATION FACING COMMUTATOR END

1. CAUTION — ARMATURE AND SERIES FIELD MAY HAVE MULTIPLE LEADS. CONNECT ALL LUGS WITH THE SAME MARKING TOGETHER.
2. OPTIONAL SERIES FIELD IS MARKED S3 AND S4. FOR CUMULATIVE SERIES FIELD, CONNECT S3 TO S2 AND CONNECT S4 TO NEGATIVE. FOR DIFFERENTIAL SERIES FIELD CONNECT S4 TO S2 AND S3 TO NEGATIVE.
3. OPTIONAL CONTROL SIGNAL LEAD IS MARKED AX2. ALWAYS TAKE INTERPOLE DROP BETWEEN A2 AND AX2. NOTE: NEMA DESIGNATION FOR AX2 IS LETTER C.
4. SPACE HEATERS, WHEN PROVIDED, WILL HAVE LEADS MARKED H1 AND H2, H3, H4, ETC.
5. THERMAL PROTECTOR, WHEN PROVIDED, WILL HAVE LEADS MARKED P1 AND P2, P3, P4, ETC.
6. WINDING RTD'S, WHEN PROVIDED, WILL HAVE LEADS MARKED TD1, TD2, & TD3.
7. BRUSH WEAR SENSOR, WHEN PROVIDED, WILL HAVE LEAD MARKED W1.
8. WARNING — MOTOR MUST BE GROUNDED TO PREVENT SERIOUS INJURIES TO PERSONNEL. GROUND THE MOTOR PER IEC, NATIONAL ELECTRICAL CODE AND ANY APPLICABLE LOCAL ELECTRICAL CODES. A TAPPED HOLE IS PROVIDED IN THE CONDUIT BOX, ON THE FOOT. FRAME BRACE OR OPPOSITE DRIVE END BRACKET, ADJACENT TO THE TERMINAL BOX FOR MOTOR GROUNDING. GROUND LEAD, WHEN PROVIDED, WILL BE GREEN.

CUSTOMER	CUSTOMER ORDER NO.	RELANCE S.D. NO.
_____	_____	_____

406770-001

REV. DESC: DELETED DUPLICATE WORDS FROM NOTE 8		
REV. LTR: A	VERSION: 01	TDR: 000000970330
FILE: \RSN\00026\422	REVISED: 10:19:12 03/11/2016	BY: RAGTBM
MTL: -		

# BALDOR

D-C MOTOR CONNECTION DIAGRAM STAB. SHUNT

SH 1 of 1