



Customer information packet

CD2005R-2

C1811ATCZ, 5HP, 1750RPM, 240, 240, DPG,

Specifications

Armature Voltage	240 V
Base Speed	1750 rpm
Enclosure	DP
Field Voltage	240 V
Frame	C1811ATCZ
Output Power	5.000 HP
Agency Approvals	CCSA US
Ambient Temperature	40 °C
Armature Current	18.1 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
Overall Length	24.06 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	A
Type	DC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	G2202A B
Layout	609980-023
Eff. date	06-02-2021
CD Diagram	406770-001
Poles	00
Leads	
Proprietary	False
Created date	11-12-2019

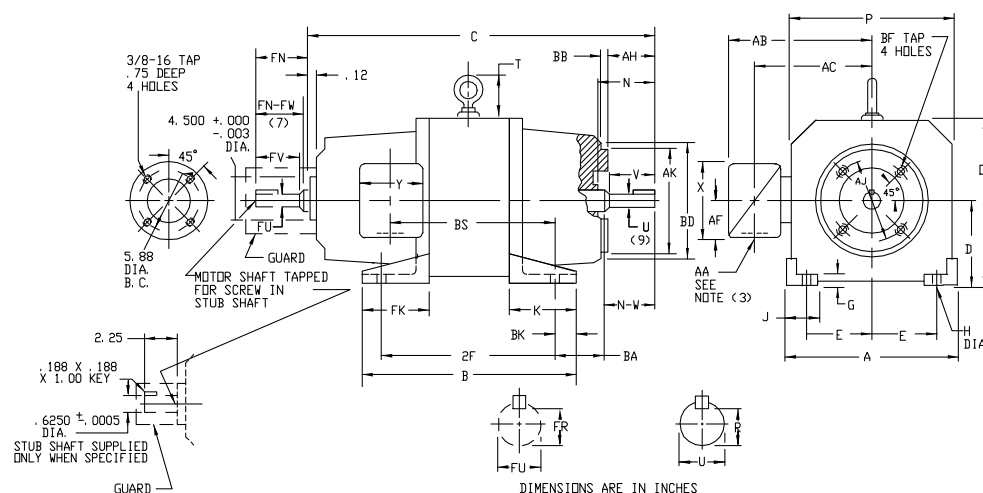
Nameplate

000613006HP									
CAT.NO.	CD2005R-2	SPEC NO.		T18S1010					
FR	C1811ATCZ	HP	5	DUTY		CONT			
ENCL.	DP	RPM	1750/2300		S.F.		1.0		
ENCL MOD	GUARDED	VOLTS		240		INSUL		F	
MAX SAFE SPEED	2450	AMPS		18.10		AMB.		40	
FIELD DATA		SER.NO.							
WINDING	STAB SHUNT	POWER CODE		C					
VOLTS	240	D.E. BRG.		40BC02J30X					
MAX AMPS @ 25 C	1.11	O.D.E. BRG.		30BC02J30X					
HOT AMPS	.79/.40	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-V	UK(2)	V	R(4)	SQ	LGTH	FN	FN-FW	FUK(2)	FV	FR(4)	SQ	LGTH						
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 NUMBER		ONE SIZE LARGER						PART NUMBER				
		AA(5)	AB	AC	AF	X	Y			AA(5)	AB	AC	AF	X	Y					
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

REV. LTR: B

VERSION: 02

TDR: 000001150521

FILE: \RGG\00030\981

REVISED: 12:00:27 10/06/2020

BY: RGGNAS

MTL: -

BALDOR - RELIANCE®

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

SH 1 of 1

609980-023

609980-023

406770-001			406770-001	
406770-001 CONNECTION DIAGRAM D-C MOTOR - STAB. SHUNT W1 <NOTE 7> SHUNT FIELD TD1 TD2 TD3 <NOTE 6> H1 H2 F1 A1 AX2 A2 S1 S2 S3 S4 F2 P1 P2 <NOTE 5> ARMATURE INTER-COIL SERIES FIELD SERIES FIELD <NOTE 4> <CAUTION-SEE NOTE 1> <NOTE 2> ARMATURE AND FIELD EXTERNAL CONNECTIONS WARNING- SEE NOTE 8 FOR GROUNDING INSTRUCTIONS CCW ROTATION A1 A2 S1 S2 F1 F2 CW ROTATION A1 S1 A2 S2 F1 F2 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 _____ ORDER NO. _____ S.D. NO. _____ RELIANCE CUSTOMER 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				