



Customer information packet

CD2007R-2

C1812ATCZ, 7.5HP, 1750RPM, 240, 240, DPG, F1

Specifications

Armature Voltage	240 V
Base Speed	1750 rpm
Enclosure	DP
Field Voltage	240 V
Frame	C1812ATCZ
Output Power	7.500 HP
Agency Approvals	CCSA US
Ambient Temperature	40 °C
Armature Current	27.0 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	28.00 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.	G2203C B
Layout	609980-023
Eff. date	12-18-2019
CD Diagram	406770-001
Poles	00
Leads	
Proprietary	False
Created date	12-17-2019

Nameplate

000613006HP									
CAT.NO.	CD2007R-2	SPEC NO.		T18S1011					
FR		HP	7.5		DUTY		CONT		
ENCL.	DP	RPM	1750/2300		S.F.		1.0		
ENCL MOD		VOLTS		240		INSUL		F	
MAX SAFE SPEED	2450	AMPS	27.00		AMB.		40		
FIELD DATA		SER.NO.							
WINDING	STAB SHUNT		POWER CODE		C				
VOLTS	240		D.E. BRG.		40BC02J30X				
MAX AMPS @ 25 C	1.40		O.D.E. BRG.		30BC02J30X				
HOT AMPS	.99/.48		MIN. AMB.		0		TYPE		TR
BRUSH:419904051AD									
SPLASHPROOF									

INDUSTRIAL DIRECT CURRENT MOTORS AND GENERATORS – RPM III

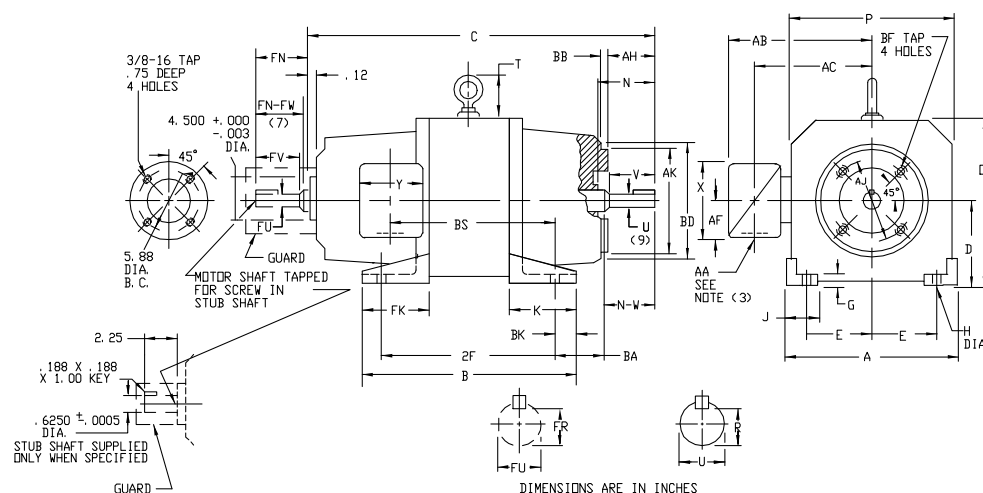
ENCLOSURE: DRIP-PROOF FULLY-GUARDED
SPLASHPROOF, TOTALLY ENCLOSED

MOUNTING: FOOT,NEMA AC "C" FACE
METHOD OF DRIVE:COUPLED OR BELTED

COOLING: SELF-VENTILATED
NON-VENTILATED

ACCESSORIES: PROVISION FOR
TACHOMETER MOUNTING
ONLY WHEN SPECIFIED

FRAMES C180ATCZ



DIMENSIONS ARE IN INCHES

FRAME	A	D(1)	E	G	H	J	D	P	T	BA	K	FK	BK	BB	BD	BF	TAP	BF TAP * DEPTH*	AJ	AK(8)
C181ATCZ-C182ATCZ	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. LBS.
					AH	N	N-W	U(2)	V	RC(4)	SQ.	LGTH	FN	FN-FW	FUK(2)	FV	FR(4)	SQ.	LGTH.		
C181ATC2	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	
C181PATC7	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. RMP/S	STANDARD SIZE						PART NUMBER		DNE. SIZE LARGER						PART NUMBER	
		AA(S)		AB	AC	AF	X	Y	AA(S)		AB	AC	AF	X	Y	NUMBER	
C180ATCZ	46	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	5.00	6.12	705029-1-R
	90	1-1/4 & 1-1/2		8.31	6.31	2.50	5.00	6.12	705028-1-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 AMP	STANDARD SIZE						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	705028Z-S	1	9.38	7.38	2.50	5.00	5.75	705028Z-S
	40	1	9.38	7.38	2.50	5.00	5.75	705028Z-T	1-1/2	10.31	7.88	3.00	6.00	7.00	705029Z-R
	60	1-1/2	10.31	7.88	3.00	6.00	7.00	705028Z-R	2	10.31	7.88	3.00	6.00	7.00	705029Z-S
	90	2	10.31	7.88	3.00	6.00	7.00	705028Z-R	2	10.31	7.88	3.00	6.00	7.00	705029Z-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®

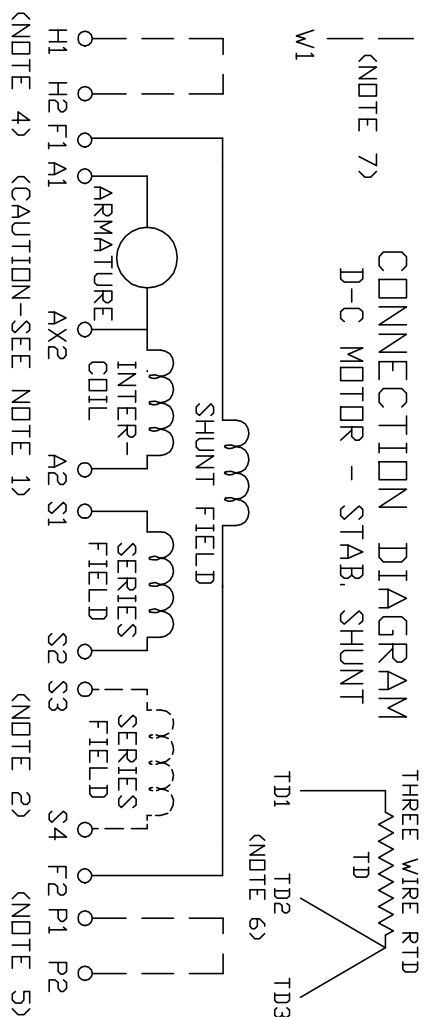
DIMENSION DRAWING.C180ATCZ.TENV.DPP.FOOT MTG.,NEMA AC C-FACE

SH 1 of 1

509980-023

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 RELIANCE
ORDER NO. _____ 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

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