

ABB BALDOR RELIANCE III

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									

609980-023

ACCESSORIES: PROVISION FOR
TACHOMETER MOUNTING
ONLY WHEN SPECIFIED

3/8-16 TAP
.75 DEEP
4 HOLES

4.500 $\pm$.000
-.003 DIA.

45°

5.88 DIA.
B.C.

MOTOR SHAFT TAPPED
FOR SCREW IN
STUB SHAFT

2.25

.188 X .188
X 1.00 KEY

.6250 $\pm$.0005
DIA.

STUB SHAFT SUPPLIED
ONLY WHEN SPECIFIED

GUARD

FN

FN-FW
(7)

FV

FU

GUARD

BS

FK

2F

B

Y

BS

AK

V

U
(9)

N-W

BA

BK

K

BB

AH

N

C

T

P

BF TAP
4 HOLES

AB

AC

BD

AA
SEE
NOTE (3)

J

E

E

A

H
DI

D

45°

45°

45°

45°

FR

FU

U

U

DIMENSIONS ARE IN INCHES

DIMENSIONS ARE IN INCHES

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	UK(2)	V	R(4)	SQ.	LGTH	FN	FN-FW	FUK(2)	FV	FR(4)	SQ.	LGTH.		
C181ATCZ	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	
C181ATCZ	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(S)	AB	AC	AF	X	Y		AA(S)	AB	AC	AF	X	Y		
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	5.50	6.12	705029-1-R	
	90	1-1/4" & 1-1/2"	8.31	6.31	2.50	5.50	705029-1-R	2-1/4" & 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	AD	X	Y		AA(6)	AB	AC	AD	X	Y	
C180ATCZ	18	3/4	9.38	7.78	2.50	5.00	5.75	705028-2-S	1-1/2	9.38	7.78	2.50	5.00	5.75	705028-2-T
	40		9.38	7.78	2.50	5.00	5.75	705028-2-S	1-1/2	10.31	7.78	2.50	6.00	7.00	705029-2-S
	60		9.38	7.78	2.50	5.00	5.75	705028-2-S	1-1/2	10.31	7.78	2.50	6.00	7.00	705029-2-S
	90	1-1/2	10.31	7.78	2.50	6.00	7.00	705029-2-P		10.31	7.78	2.50	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: -		

- (1) "D" DIMENSION WILL NOT BE EXCEEDED. SHIMS UP TO .06 INCHES IN THICKNESS ARE USUALLY REQUIRED FOR COUPLED OR GEARED MACHINES.
- (2) "U" AND "F" VARY: +0.0000 - .0005
- (3) TERMINAL BOX CAN BE ROTATED FOR LEAD OUT AT TOP, SIDES OR BOTTOM.
- (4) FOR "X"/"P" TERMINAL BOX DIMENSIONS SEE 609989-1.
- (5) WILL TYPE "X"/"P" TERMINAL BOX DIMENSIONS SEE 609989-2.
- (6) "R" AND "FR" VARY: +0.00 - .015.
- (7) AA CONDUIT, TERMINAL BOX PROVIDED WITH DOUBLE KNUCKOUT.
- (8) AA PIPE TAP.
- (9) FLEXIBLE DRIVE END SHAFT SUPPLIED ONLY WHEN SPECIFIED.
- (10) "AK" VARIES +0.00 - .003.
- (11) FACE RUNOUT AND ECCENTRICITY .004 MAX. T. I. R.
- (12) DRIVE END SHAFT DIMENSIONS PER 180T AC MOTOR SHAFT EXTENSION.
- (13) WHEN THE MOTOR APPLICATION DOES NOT REQUIRE THE USE OF DEE, DRIVE END ADD .25 TO "C" DIM. (PER BRACKET COVER.

TERMINAL BOX LOCATED ON OPPOSITE SIDE WHEN F-2,
W-1, W-4, W-5, W-7 OR C-1 MOUNTING IS SPECIFIED.
BOX LOCATED ON TOP WHEN SPECIFIED.

MOTOR WEIGHT MAY VARY 15% FOR NON-STANDARD RATINGS AND/OR ACCESSORIES.

IF MOUNTING CLEARANCE DETAILS ARE REQUIRED,
CONSULT FACTORY.

609980-023

BALDOR - RELIANCE®

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

SH 1 of 1

