

ABB BALDOR RELIANCE III

Customer information packet

D5010R

C1812ATZ, 10HP, 1750RPM, 500, 300, DPG, F1

Specifications

Armature Voltage	500 V
Base Speed	1750 rpm
Enclosure	DP
Field Voltage	300 V
Frame	C1812ATZ
Output Power	10.000 HP
Agency Approvals	CCSA US
Ambient Temperature	40 °C
Armature Current	17.4 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	27.88 IN
Service Factor	1.00
Shaft Diameter	1.375 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.	G2061B A
Layout	609980-001
Eff. date	12-27-2019
CD Diagram	406770-001
Poles	00
Leads	
Proprietary	False
Created date	12-17-2019

Nameplate

000613006HP									
CAT.NO.		SPEC NO.	T18S1307						
FR	C1812ATZ	HP	10	DUTY		CONT			
ENCL.	DP	RPM	1750/2300		S.F.	1.0			
ENCL MOD	GUARDED	VOLTS	500		INSUL		F		
MAX SAFE SPEED	5000	AMPS	17.40		AMB.		40		
FIELD DATA		SER.NO.							
WINDING	STAB SHUNT	POWER CODE	D						
VOLTS	300	D.E. BRG.	40BC02J30X						
MAX AMPS @ 25 C	1.09	O.D.E. BRG.	30BC02J30X						
HOT AMPS	.77/.41	MIN. AMB.	0		TYPE		TR		
	BRUSH:419904051G								

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

FN

C

T

N

.12

FN-FW
(7)

FV

FU

GUARD

BS

Y

V

U

N-W

BK

BA

2F

B

FK

AA SEE NOTE (3)

AB

P

AC

X

AF

D

J

G

E

E

A

H DIA.

R

U

FR

FU

- (1) "B" 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 FROM .0000 - .0005
 - (3) TERMINAL BOX VARY FROM .0000 FOR LEAD OUTLET AT TOP, SIDES OR BOTTOM.
FOR "X/P" TERMINAL BOX DIMENSIONS SEE 609989-1.
FOR MILL TYPE TERMINAL BOX DIMENSIONS SEE 609989-2.
 - (4) "K" AND "K" VARY FROM .0000 - .0005
 - (5) AA CONDUIT, TERMINAL BOX PROVIDED WITH DOUBLE KNOCKOUT.
 - (6) AA PIPE TAP
 - (7) OPPOSITE DRIVE END SHAFT SUPPLIED ONLY WHEN SPECIFIED.
 - (8) WHEN THE MOTOR APPLICATION DOES NOT REQUIRE THE USE OF OPP. DRIVE END, ADD .25 TO "C" DIM. FOR BRACKET COVER.
- TERMINAL BOX LOCATED ON OPPOSITE SIDE WHEN F-2,
W-1, W-4, W-5, W-7 OR W-8 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.

DIMENSIONS ARE IN INCHES

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FRAME	A	D(1)	E	G	H	J	D	P	T	BA	K	FK	BK
C1811ATZ-C1812ATZ	9.00	4.50	3.75	.31	.44	1.50	8.88	8.75	1.88	2.75	4.38	4.38	.50

FRAME	C(8)	B	BS	2F	DRIVE END SHAFT AND KEY								OPPOSITE DRIVE END SHAFT AND KEY (7)								WT. LBS.
					N	N-W	U(2)	V	R(4)	SQ.	LGTH	FN	FN-FW	FU(2)	FV	FR(4)	SQ.	LGTH.			
C1811ATZ	23.94	14.00	11.00	12.50	3.00	2.75	1.3750	2.50	1.201	.312	1.75	2.44	2.25	1.1250	2.00	.986	.250	1.38	175		
C1812ATZ	25.44	15.50	12.50	14.00	3.00	2.75	1.3750	2.50	1.201	.312	1.75	2.44	2.25	1.1250	2.00	.986	.250	1.38	210		

STEEL TERMINAL BOX DIMENSIONS															
FRAME	MAX. AMPS	STANDARD SIZE						PART NUMBER	ONE SIZE LARGE						PART NUMBER
		AA(5)	AB	AC	AF	X	Y		AA(5)	AB	AC	AF	X	Y	
C180ATZ	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

[illegible]

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

REV. DESC: REVISE "D" DIM TOLERANCE		
REV. LTR: B	VERSION: 02	TDR: 000001158210
FILE: \\RGG\00031\202	REVISED: 01:10:53 01/13/2021	BY: RGGNAS
MTL: -		

BALDOR - RELIANCE®

DIMENSION DRAWING,C180ATZ,DPP,TENV,FOOT MTG.

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