

ABB BALDOR RELIANCE III

Customer information packet D2505R

5HP, 1750RPM, DC, 1812ATY, TEFC,

Specifications

Armature Voltage	240 V
Base Speed	1750 rpm
Enclosure	TEFC
Field Voltage	150 V
Frame	C1812ATZ
Output Power	5.000 HP
Agency Approvals	CCSA US
Ambient Temperature	40 °C
Armature Current	18.5 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	32.06 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.	G2107A B
Layout	609981-001
Eff. date	01-02-2020
CD Diagram	406770-001
Poles	00
Leads	
Proprietary	False
Created date	12-27-2019

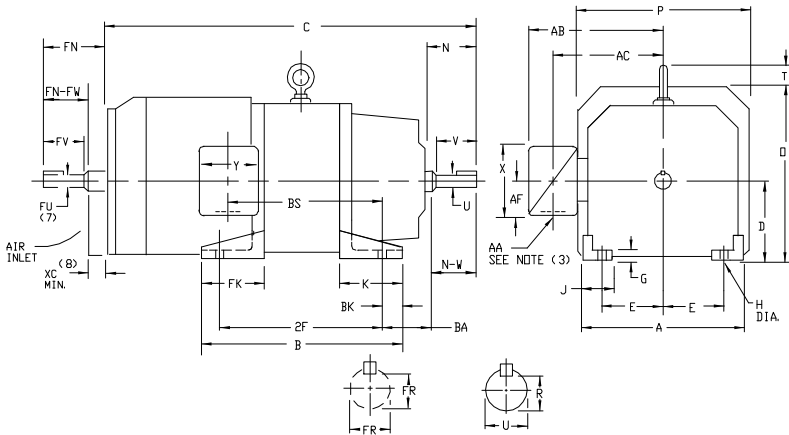
Nameplate

000613006HP									
CAT.NO.			SPEC NO.	T18S1005					
FR	C1812ATZ	HP	5			DUTY	CONT		
ENCL.	TEFC	RPM	1750/2300			S.F.	1.0		
ENCL MOD			VOLTS	240		INSUL		F	
MAX SAFE SPEED	5000	AMPS	18.50		AMB.		40		
FIELD DATA		SER.NO.							
WINDING	STAB SHUNT		POWER CODE		D-50/60				
VOLTS	150		D.E. BRG.		40BC02J30X				
MAX AMPS @ 25 C	1.80		O.D.E. BRG.		30BC02J30X				
HOT AMPS	1.27/.56		MIN. AMB.		0		TYPE		TR
BRUSH:419904051AB									

609981-001

INDUSTRIAL DIRECT CURRENT MOTORS
AND GENERATORS – RPM III

ENCLOSURE: TOTALLY ENCLOSED COOLING: FAN COOLED
MOUNTING: FOOT
METHOD OF DRIVE: COUPLED OR BELTED FRAMES C180ATZ



DIMENSIONS ARE IN INCHES

FRAME	A	BC	E	G	H	J	D	P	T	BA	K	FK	BK	XC(B)
C1811ATZ-C1812ATZ	9.00	4.50	3.75	1.31	1.44	1.50	9.50	10.00	1.88	2.75	4.38	4.38	1.50	1.00

FRAME	C	B	BS	2F	DRIVE END SHAFT AND KEY							OPPOSITE DRIVE END SHAFT AND KEY (7)							WT.
					N	N-W	UX(2)	V	R(4)	SQ.	LGTH	FN	FN-FW	FU(2)	FV	FR(4)	SQ.	LGTH	LBS.
C1811ATZ	27.31	14.00	11.00	12.50	3.00	2.75	1.3750	2.50	1.201	.312	1.75	3.25	2.25	1.1250	2.00	.986	.250	1.38	200
C1812ATZ	28.81	15.50	12.50	14.00	3.00	2.75	1.3750	2.50	1.201	.312	1.75	3.25	2.25	1.1250	2.00	.986	.250	1.38	235

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
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

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	
C180ATZ	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

- (1) "D" DIMENSION WILL NOT BE EXCEEDED. SHIMS UP TO .03 INCHES IN THICKNESS ARE USUALLY REQUIRED FOR COUPLED OR GEARED MACHINES.
(2) "U" AND "FU" VARY +.0000 - .0005
(3) TERMINAL BOX CAN BE ROTATED 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) "R" AND "FR" VARY +.000 - .015.
(5) AA CONDUIT, TERMINAL BOX PROVIDED WITH DOUBLE KNOCKOUT.
(6) AA PIPE TAP
(7) OPPOSITE DRIVE END SHAFT SUPPLIED ONLY WHEN SPECIFIED.
(8) WALLS OR OBSTRUCTIONS MUST NOT ENCRDACH ON AIR INLET SPACE "XC".

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.

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

REV. DESC: REVISED DRAWING VIEWS		
REV. LTR: A	VERSION: 01	TDR: 000000861772
FILE: \RSN\00029\605	REVISED: 12:42:36 08/15/2014	BY: RSNPSB
MTL: -		

BALDOR

DIMENSION DRAWING, C180ATZ, TEFC, FOOT MTG.

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609981-001

