

ABB BALDOR RELIANCE III

Customer information packet

D51200R-1BV

MC4013ATZ, 200HP, 1150RPM, 500, 300, , F1

Specifications

Armature Voltage	500 V
Base Speed	1150 rpm
Enclosure	DPG-FV
Field Voltage	300 V
Frame	MC4013ATZ
Output Power	200.000 HP
Ambient Temperature	40 °C
Armature Current	320.0 a
Bearing Grease Type	Polyrex EM (-20F +300F)
Drip Cover	No Drip Cover
Duty Rating	CONT
Feedback Device	NO FEEDBACK
Field Winding Type	STR. SHUNT
Frame Prefix	MC
Heater Indicator	No Heater
Insulation Class	F
IP Rating	IP23
Lifting Lugs	Standard Lifting Lugs
Motor Standards	NEMA
Mounting Arrangement	F1
Service Factor	1.00
Shaft Diameter	3.624 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Slinger Indicator	No Slinger

Part Detail

Revision	B
Type	DC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	G7635D B
Layout	609962-001
Eff. date	08-30-2023
CD Diagram	406770-006
Poles	00
Leads	
Proprietary	False
Created date	01-22-2019

Nameplate

000613006HP						
CAT.NO.	D51200R-1BV	SPEC NO.	D40-A000-0028			
FR	MC4013ATZ	HP	200	DUTY	CONT	
ENCL.	DPG-FV	RPM	1150/2000	S.F.	1.00	
ENCL MOD		VOLTS	500	INSUL	F	
MAX SAFE SPEED	03000	AMPS	320.00	AMB.	40	
FIELD DATA		SER.NO.				
WINDING	STR. SHUNT	POWER CODE	C			
VOLTS	300	D.E. BRG.	95BC02J30X			
MAX AMPS @ 25 C	7.57	O.D.E. BRG.	95BC02J30X			
HOT AMPS	5.70/3.07	MIN. AMB.	0	TYPE	TR	
BRUSH:419904052AA						

ACCESSORIES: AIR FILTERED
PROVISION FOR
TACHOMETER MOUNTING
ONLY WHEN SPECIFIED

Technical drawing of a centrifugal pump assembly, showing front and top views with various dimension lines and labels.

Front View Dimensions and Labels:

- XC:** Dimension from the air inlet to the start of the main body.
- XF:** Dimension from the start of the main body to the center of the impeller.
- C:** Total length of the pump assembly.
- T:** Dimension from the top of the main body to the center of the impeller.
- FN, FN-FV, FV:** Dimensions related to the air inlet and guard.
- GUARD:** Label for the protective guard.
- FU (S):** Dimension from the front face of the main body to the center of the impeller.
- XA:** Dimension from the front face of the main body to the center of the impeller.
- XA/2:** Dimension from the front face of the main body to the center of the impeller (half of XA).
- BS:** Dimension from the front face of the main body to the center of the impeller.
- G:** Dimension from the front face of the main body to the center of the impeller.
- FK:** Dimension from the front face of the main body to the center of the impeller.
- 2F:** Dimension from the front face of the main body to the center of the impeller.
- B:** Total length of the pump assembly.
- K:** Dimension from the front face of the main body to the center of the impeller.
- BA:** Dimension from the front face of the main body to the center of the impeller.
- BK:** Dimension from the front face of the main body to the center of the impeller.
- N:** Dimension from the front face of the main body to the center of the impeller.
- V:** Dimension from the front face of the main body to the center of the impeller.
- U:** Dimension from the front face of the main body to the center of the impeller.
- N-V:** Dimension from the front face of the main body to the center of the impeller.
- FR:** Dimension from the front face of the main body to the center of the impeller.
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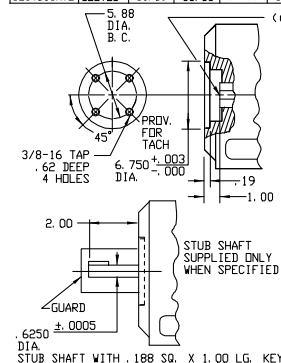
Top View Dimensions and Labels:

- AB:** Dimension from the front face of the main body to the center of the impeller.
- XP:** Dimension from the front face of the main body to the center of the impeller.
- XG:** Dimension from the front face of the main body to the center of the impeller.
- XE:** Dimension from the front face of the main body to the center of the impeller.
- PDS. 1:** Dimension from the front face of the main body to the center of the impeller.
- PDS. 2:** Dimension from the front face of the main body to the center of the impeller.
- PDS. 4:** Dimension from the front face of the main body to the center of the impeller.
- PDS. 3:** Dimension from the front face of the main body to the center of the impeller.
- AF:** Dimension from the front face of the main body to the center of the impeller.
- NDTE (4):** Dimension from the front face of the main body to the center of the impeller.
- J:** Dimension from the front face of the main body to the center of the impeller.
- E:** Dimension from the front face of the main body to the center of the impeller.
- A:** Total length of the pump assembly.
- H DIA.:** Dimension from the front face of the main body to the center of the impeller.
- D:** Dimension from the front face of the main body to the center of the impeller.
- HG:** Dimension from the front face of the main body to the center of the impeller.
- R:** Dimension from the front face of the main body to the center of the impeller.
- U:** Dimension from the front face of the main body to the center of the impeller.

FRAME	A	D(1)	E	G	H	HG	J	O	P	T	BA	K	FK	BK	AB	AF	RH(C)
C4011ATZ-ULC4013ATZ	19.38	10.00	8.00	1.06	1.06	2.82	3.50	19.81	19.56	4.31	6.62	8.75	12.12	5.25	16.12	8.00	624

FRAME	METHOD OF DRIVE	DRIVE END SHAFT AND KEY										(S) OPPOSITE DRIVE END SHAFT AND KEY										WT. LBS.
		C	B	BS	2F	N - W - U	V	R (3)	S	LGTH	FN	FN - F	FU(2)	FV	FR (3)	S	LGTH	LBS				
MC401ATZ	COUPLED	52.7	10	42.06	16.0	28.0	7.62	7.25	3.625	7.0	13.4	875	5.75	7.62	7.25	3.625	7.0	13.4	875	5.75	2500	
MC401ATZ	BELTED	53.0	10	42.06	16.0	28.0	8.6	8.25	4.125	8.0	13.631	6.00	6.50	7.62	7.25	3.625	7.0	13.4	875	5.75	2500	
MC401ATZ	COUPLED	56.82	46.81	20.75	36.00	17.62	7.25	3.625	7.0	13.4	875	5.75	7.62	7.25	3.625	7.0	13.4	875	5.75	2800		
MC401ATZ	BELTED	57.84	46.81	20.75	36.00	18.62	8.25	4.125	8.0	13.631	6.00	6.50	7.62	7.25	3.625	7.0	13.4	875	5.75	2800		
MC401ATZ	COUPLED	60.09	50.06	24.00	36.00	19.62	7.25	3.625	7.0	13.4	875	5.75	7.62	7.25	3.625	7.0	13.4	875	5.75	3100		
MC401ATZ	BELTED	61.09	50.06	24.00	36.00	18.62	8.25	4.125	8.0	13.631	6.00	6.50	7.62	7.25	3.625	7.0	13.4	875	5.75	3100		

FRAME	XA	XB	XC	XD	XE	XF	XG	XD	XP
C4011ATZ-ULC4013ATZ	16.00	6.00	4.88	26.00	8.69	23.50	3.38	33.62	15.12



- (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 "FU" VARY ----. 000 - .001
- (3) "R" AND "FR" VARY ----. 000 - .015
- (4) CUSTOMER TO PROVIDE HOLE IN TERMINAL BOX FOR CONDUIT.
- (5) OPPOSITE DRIVE END SHAFT SUPPLIED ONLY WHEN SPECIFIED.
- (6) SHAFT TAPPED FOR SCREW IN SHAFT.
- (7) WHEN THE MOTOR APPLICATION DOES NOT REQUIRE THE USE OF DDP, 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 C-1 MOUNTING IS SPECIFIED. BOX LOCATED ON TOP WHEN SPECIFIED.
BLOWER ASSEMBLY CAN BE LOCATED AT POSITIONS 1, 2, OR 4, EXCEPT
BLOWER ASSEMBLY AND TERMINAL BOX CAN NOT BE LOCATED AT THE SAME POSITION.
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

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FILE: \RGG\00015\598			REVISED: 12:02:57 01/26/2011	BY: CONNAS
MTL: -				

DIMENSION DRAWING.C4011ATZ – ULC4013ATZ.DPP.FOOT MTG.

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