

ABB BALDOR RELIANCE III

Customer information packet

D50400R-BV

400HP, 1750RPM, DC, 4013ATZ, DPG-FV,

Specifications

Enclosure	DP
Frame	MC4013ATZ
Frame Material	Exposed Laminations
Output Power	400.000 HP
Agency Approvals	CCSA US
Ambient Temperature	40 °C
Bearing Grease Type	Polyrex EM (-20F +300F)
Drip Cover	No Drip Cover
Feedback Device	NO FEEDBACK
Field Winding Type	STR. SHUNT
Frame Prefix	MC
Heater Indicator	No Heater
Lifting Lugs	Standard Lifting Lugs
Motor Standards	NEMA
Mounting Arrangement	F2
Overall Length	56.94 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Slinger Indicator	No Slinger

Part Detail

Revision	A
Type	DC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	G7518A A
Layout	609962-013
Eff. date	08-30-2023
CD Diagram	
Poles	00
Leads	
Proprietary	False
Created date	04-09-2015

Nameplate

000613006HP									
CAT.NO.	D50400R-BV	SPEC NO.	T40S1314						
FR	MC 4013ATZ	HP	400	DUTY	CONT				
ENCL.	DP	RPM	1750/2000		S.F.	1.0			
ENCL MOD	FORCE VENT	VOLTS	500		INSUL	F			
MAX SAFE SPEED	03000	AMPS	640.00		AMB.	40			
FIELD DATA		SER.NO.							
WINDING	STR. SHUNT	POWER CODE	C						
VOLTS	300	D.E. BRG.	95BC02J30X						
MAX AMPS @ 25 C	11.94	O.D.E. BRG.	95BC02J30X						
HOT AMPS	8.27/7.10	MIN. AMB.	0		TYPE	TR			
			BRUSH:419904052AB						

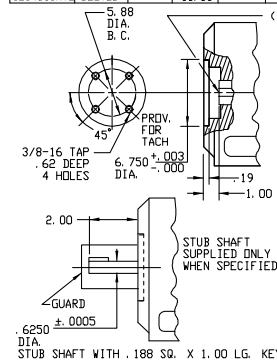
COOLING: FORCE VENTILATED
WITH INTEGRAL
BLOWER AND MOTOR
ACCESSORIES: PROVISION FOR
TACHOMETER MOUNTING
ONLY WHEN SPECIFIED

Technical drawing of a motor with dimensions and labels. The drawing includes a side view and a top view. Key dimensions and labels are as follows:

- Side View Dimensions:**
 - XF: Distance from the air inlet to the center of the motor.
 - C: Total length of the motor.
 - XC: Distance from the air inlet to the center of the motor.
 - AIR INLET: Label for the air inlet.
 - T: Distance from the top of the motor to the center of the air inlet.
 - FN, FN-FW, FV: Dimensions related to the guard.
 - GUARD: Label for the guard.
 - FU (5): Dimension for the guard.
 - XA: Distance from the center of the motor to the center of the fan.
 - BS: Distance from the center of the motor to the center of the fan.
 - G: Distance from the center of the motor to the center of the fan.
 - FK: Distance from the center of the motor to the center of the fan.
 - 2F: Distance from the center of the motor to the center of the fan.
 - B: Total width of the motor.
 - BK: Distance from the center of the motor to the center of the fan.
 - BA: Distance from the center of the motor to the center of the fan.
 - N-W: Distance from the center of the motor to the center of the fan.
 - N: Distance from the center of the motor to the center of the fan.
 - V: Distance from the center of the motor to the center of the fan.
 - U: Distance from the center of the motor to the center of the fan.
- Top View Dimensions:**
 - AB: Distance from the center of the motor to the center of the fan.
 - XP: Distance from the center of the motor to the center of the fan.
 - XG: Distance from the center of the motor to the center of the fan.
 - XB: Distance from the center of the motor to the center of the fan.
 - XC: Distance from the center of the motor to the center of the fan.
 - POS. 1, POS. 2, POS. 3, POS. 4: Positions of the fan.
 - AF: Distance from the center of the motor to the center of the fan.
 - NOTE (4): Note for the fan.
 - J: Distance from the center of the motor to the center of the fan.
 - E: Distance from the center of the motor to the center of the fan.
 - A: Distance from the center of the motor to the center of the fan.
 - H DIA.: Diameter of the fan.
 - D: Distance from the center of the motor to the center of the fan.
 - XD: Distance from the center of the motor to the center of the fan.
 - U: Distance from the center of the motor to the center of the fan.
 - R: Distance from the center of the motor to the center of the fan.

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	.62

METHOD OF		DRIVE END SHAFT AND KEY										(C) OPPOSITE DRIVE END SHAFT AND KEY										VT.						
FRAME	DRIVE	CY	B	BS	2F	N	N-W	V	R	X	S	LGTH	F	FN	FV	FUK	FV	FR	X	S	LGTH		LSBS					
4C40141Z	COUPLED	52.7	19	42.06	16.00	28.00	7.62	7.25	3.625	7.00	1.34	875.5	5.75	7.62	7.25	3.625	7.00	1.34	875.5	5.75	7.62	7.25	3.625	7.00	1.34	875.5	5.75	2800
4C40141Z	BELTED	53.19	42	46.16	16.00	28.00	8.62	8.25	4.125	8.00	3.631	900.0	6.50	7.62	7.25	3.625	7.00	1.34	875.5	5.75	7.62	7.25	3.625	7.00	1.34	875.5	5.75	2800
4C40134Z	COUPLED	56.36	46	50.75	36.00	27.00	8.62	8.25	4.125	8.00	3.631	900.0	6.50	7.62	7.25	3.625	7.00	1.34	875.5	5.75	7.62	7.25	3.625	7.00	1.34	875.5	5.75	2800
4C40134Z	BELTED	57.24	46	61.75	36.00	28.00	9.62	9.25	4.125	9.00	3.631	900.0	6.50	7.62	7.25	3.625	7.00	1.34	875.5	5.75	7.62	7.25	3.625	7.00	1.34	875.5	5.75	2800
4C40143Z	COUPLED	60.19	50.06	24.00	36.00	27.00	8.62	8.25	4.125	8.00	3.631	900.0	6.50	7.62	7.25	3.625	7.00	1.34	875.5	5.75	7.62	7.25	3.625	7.00	1.34	875.5	5.75	3100
4C40143Z	BELTED	61.19	50.06	24.00	36.00	28.00	8.62	8.25	4.125	8.00	3.631	900.0	6.50	7.62	7.25	3.625	7.00	1.34	875.5	5.75	7.62	7.25	3.625	7.00	1.34	875.5	5.75	3100



- (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 "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 SUPPLEMENTARY DRIVE.
- (7) WHEN THE MOTOR APPLICATION DOES NOT REQUIRE THE USE OF DFP, 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

REV. LTR: -			VERSION: 00	TDR: 000000577407
FILE: \RGG\00015\600			REVISED: 12:04:54 01/26/2011	BY: CONNAS
MTL: -				

DIMENSION DRAWING.C4011ATZ - ULC4013ATZ.DPP,FOOT MTG.

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