

ABB BALDOR RELIANCE III

Customer information packet

D50250RR-BV

250 1750 500A 300F DPGFV STR SNT

Specifications

Enclosure	DP
Frame	ULC3612ATZ
Frame Material	Steel
Output Power	250.000 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	ULC
Heater Indicator	No Heater
Lifting Lugs	Standard Lifting Lugs
Motor Standards	NEMA
Mounting Arrangement	F2
Overall Length	47.38 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.	G6130C B
Layout	616042-001
Eff. date	08-11-2017
CD Diagram	406770-006
Poles	00
Leads	
Proprietary	False
Created date	04-09-2015

Nameplate

000613006HP									
CAT.NO.	D50250RR-BV	SPEC NO.	T36S1318						
FR	ULC 3612ATZ	HP	250		DUTY	CONT			
ENCL.	DP	RPM	1750/2000		S.F.	1.0			
ENCL MOD	FORCE VENT	VOLTS	500		INSUL	F			
MAX SAFE SPEED	2150	AMPS	405.00		AMB.	40			
FIELD DATA		SER.NO.							
WINDING	STR. SHUNT	POWER CODE	C						
VOLTS	300	D.E. BRG.	95RU02M30X26						
MAX AMPS @ 25 C	8.87	O.D.E. BRG.	80BC02J30X						
HOT AMPS	5.91/5.38	MIN. AMB.	0		TYPE	TR			
BRUSH:419904052AB									

616042-001

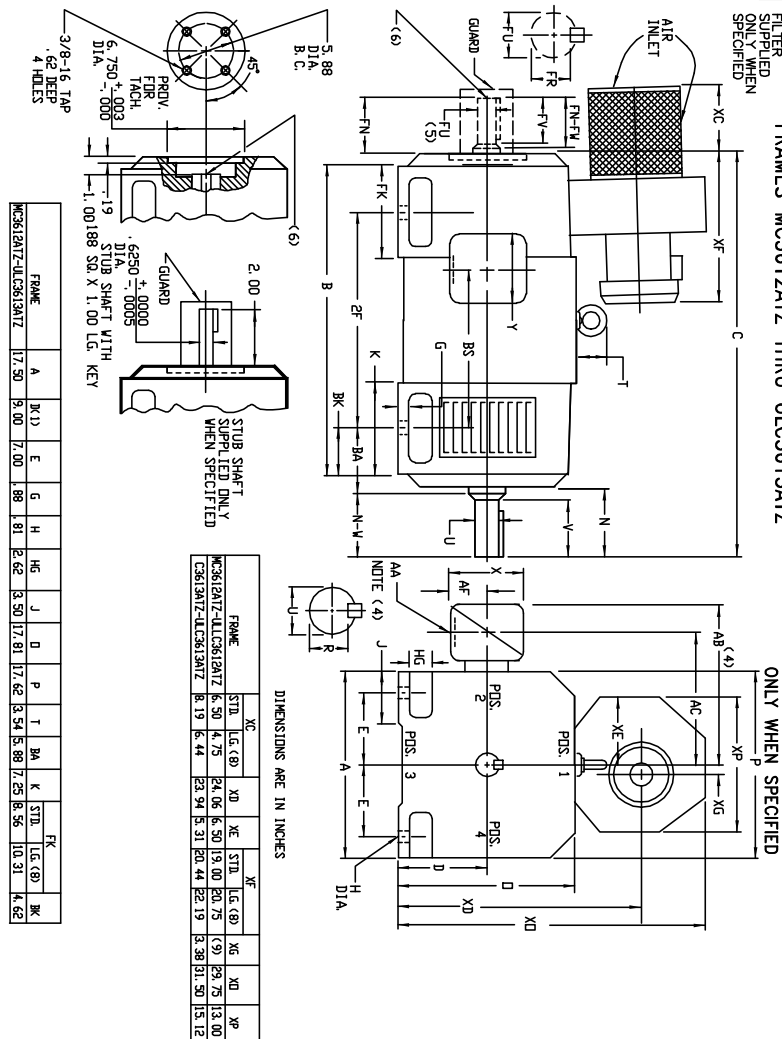
INDUSTRIAL DIRECT CURRENT MOTORS
AND GENERATORS - RPM III
DRIP-PROOF FULLY-GLAZED COOLING: FORCE VENT
INSURE:

**ENCLOSURE: DRIP-PROOF FULLY-GUARDED
SPLASHPROOF
MOUNTING:FOOT**

**COOLING: FORCE VENTILATED
WITH INTEGRAL
BLOWER AND MOTOR
AIR FILTERED**

FRAMES MC3612ATZ THRU ULC3613ATZ

ACCESSORIES: **PROVISION FOR**
TACHOMETER MOUNTING
ONLY WHEN SPECIFIED



FRAME	A	D(1)	E	G	H	HG	J	D	P	T	BA	K	FK		
													STL	LG (8)	
MC3612A7-7-LLC3613A17	17.50	9.00	7.00	.88	.81	2.62	3.50	17.81	17.62	3.54	5.88	7.25	8.56	10.31	4.62

FRAME	MEDIAN		B		SS	SE	DATIVE END SHIFT AND KEY		OPPOSITE REVERSE END SHIFT AND KEY																						
	C72	B (C6)	B	BS			N-H	U2D	U2V	KEY	FN	N-H FN	END	SHFT	AND	KEY	SS	U2D	U2V	KEY											
MC3612A1Z - LM3612A1Z	BLT	42	88	44	56	19	12	89	0.0	5.0	5.0	8.95	5.02	4.50	750	4.25	6.00	5.75	2.87	5.50	2.450	750	4.25	16.85	5.02	4.50	750	4.25	16.85		
MC3612A1Z - LM3612A1Z	BLT	43	42	38	34	44	56	19	12	89	0.0	5.0	5.0	8.95	5.02	4.50	750	4.25	6.00	5.75	2.87	5.50	2.450	750	4.25	16.85	5.02	4.50	750	4.25	16.85
MC3612A1Z - LM3612A1Z	BLT	46	42	38	34	44	56	19	12	89	0.0	5.0	5.0	8.95	5.02	4.50	750	4.25	6.00	5.75	2.87	5.50	2.450	750	4.25	16.85	5.02	4.50	750	4.25	16.85
MC3612A1Z - LM3612A1Z	BLT	47	42	38	34	44	56	19	12	89	0.0	5.0	5.0	8.95	5.02	4.50	750	4.25	6.00	5.75	2.87	5.50	2.450	750	4.25	16.85	5.02	4.50	750	4.25	16.85
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MC3612A1Z - LM3612A1Z	BLT	50	38	35	31	88	41	69	43	44	56	19	12	89	0.0	5.0	5.0	8.95	5.02	4.50	750	4.25	6.00	5.75	2.87	5.50	2.450	750	4.25	16.85	
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- (1) "Y" DIMENSION WILL NOT EXCEED, SHIMS UP TO .06 INCHES IN THICKNESS ARE USUALLY REQUIRED FOR COUPLED OR GEARED MACHINES.
- (2) "Z" AND "Y" VARIATION: H.D. - .001
- (3) "X" AND "Y" VARIATION: H.D. - .001
- (4) TERMINAL BOX VARIANTS WITH A P. FIRM
- (5) "AC", "AR", "X", AND "Y", REFER TO BOX D/S. (STD. 6069797-1, 797-2, 6069797-3, MILL 6069797-4)
- (6) DEPRESSIVE DRIVE END SHAFT SUPPLIED ONLY WHEN SPECIFIED.
- (7) MILL SHAFT APPLIED FOR STOCK IN STOCK SHOWN THE JUST OF DEPRESSIVE DRIVE END, AND 25 TO 40 DIA. FOR BRACKET COVER.
- (8) DEPRESSIVE DRIVE END SHAFT SUPPLIED ONLY WHEN SPECIFIED.
- (9) "Y" DIMENSION IS NOT APPLICABLE TO "C38162ATZ" FRAMES (ALUMINUM ROLLER IS CENTERED ON SHAFT C/L)
- (10) SHAFT ROLLER .003 MAX. T.I.R.

TERMINAL BOX CAN BE ROTATED FOR LEAD OUTLET AT TOP, SIDES OR BOTTOM.
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 IN TOP WHEN SPECIFIED.
BLUNDER ASSEMBLY CAN BE LOCATED AT POSITIONS 1, 2, OR 4, EXCEPT BLUNDER 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. DESC: ADD SHAFT RUNOUT NOTE		
REV. LTR: B	VERSION: 02	TDR: 000001186744
FILE: \RGG\00016\063	REVISED: 03:32:04 03/02/2022	BY: RGGNAS
MTL: -		

BALDOR - RELIANCE®

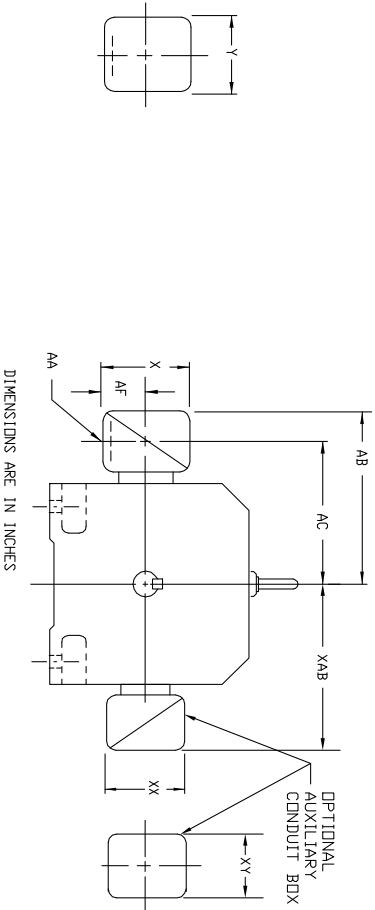
DIMENSION DRAWING,MC3612ATZ – ULC3613ATZ,DPP,FOOT MTG

SH 1 of 1

616042-001

INDUSTRIAL DIRECT CURRENT MOTORS
AND GENERATORS – RPM III

STEEL AND CAST IRON TERMINAL BOX DIMENSIONS
STANDARD SIZE AND ONE SIZE LARGER
FRAMES C3210ATZ THRU C3613ATZ



DIMENSIONS ARE IN INCHES

STEEL TERMINAL BOX DIMENSIONS											
FRAME SIZE	MAX AMPS	STANDARD SIZE				PART NUMBER	ONE SIZE LARGER				PART NUMBER
		AA(1)	AB	AC	AF		AA(1)	AB	AC	AF	
C3210ATZ	185	3	15.31	12.06	4.25	7.25	15.31	12.06	4.25	8.44	7.25
C3212ATZ	269	4	16.75	12.69	5.38	10.56	16.75	12.69	5.38	10.56	9.00
C3214ATZ	500	5	21.00	15.88	6.50	12.10	21.00	15.88	6.50	12.10	14.62
C3612ATZ	185	3	15.31	12.06	4.25	7.25	15.31	12.06	4.25	8.44	7.25
C3613ATZ	269	4	17.75	13.69	5.38	10.56	17.75	13.69	5.38	10.56	9.00
C3613ATZ	500	5	22.00	15.88	6.50	12.10	22.00	15.88	6.50	12.10	14.62

CAST IRON TERMINAL BOX DIMENSIONS											
FRAME SIZE	MAX AMPS	STANDARD SIZE				PART NUMBER	ONE SIZE LARGER				PART NUMBER
		AA(2)	AB	AC	AF		AA(2)	AB	AC	AF	
C3210ATZ	185	3	15.31	11.56	3.62	7.88	15.31	11.56	3.62	7.88	9.25
C3212ATZ	269	4	16.62	12.44	4.12	9.50	16.62	12.44	4.12	9.50	10.50
C3214ATZ	500	5	19.44	14.19	7.00	12.75	19.44	14.19	7.00	12.75	15.00
C3612ATZ	185	3	15.31	12.06	4.25	7.88	15.31	12.06	4.25	7.88	9.25
C3613ATZ	269	4	17.62	13.44	4.12	9.50	17.62	13.44	4.12	9.50	10.50
C3613ATZ	500	5	20.44	15.19	7.00	12.75	20.44	15.19	7.00	12.75	15.00

CONDUIT BOX DIMENSIONS WITH TERMINAL BOARDS (IEC TYPE BOX)											
STANDARD SIZE											
FRAME SIZE	MAX AMPS	STANDARD SIZE				PART NUMBER	ONE SIZE LARGER				PART NUMBER
		AA	AB	AC	AF		AA (3)	AB	AC	AF	
C320	400	19.02	15.28	6.20	14.39	706310-63-B	14.39	14.39	14.39	14.39	706310-63-B
C320	800	19.02	15.28	6.20	14.39	706310-63-B	14.39	14.39	14.39	14.39	706310-63-B
C320	1600	19.02	15.28	7.68	15.35	706310-63-C	15.35	15.35	15.35	15.35	706310-63-C
C360	400	20.00	15.28	6.20	14.39	706310-63-B	14.39	14.39	14.39	14.39	706310-63-B
C360	800	20.00	15.28	6.20	14.39	706310-63-B	14.39	14.39	14.39	14.39	706310-63-B
C360	1600	20.00	15.28	7.68	15.35	706310-63-C	15.35	15.35	15.35	15.35	706310-63-C

OPTIONAL AUXILIARY CONDUIT BOX DIMENSIONS (MAXIMUM)											
FRAME SIZE	MAX AMPS	STANDARD SIZE				PART NUMBER	ONE SIZE LARGER				PART NUMBER
		AA	AB	AC	AF		AA (3)	AB	AC	AF	
C320	400	11.00	4.25	4.25	6.02	706310-3-B	8.00	8.00	8.00	8.00	706310-3-B
C360	1600	11.00	4.25	4.25	6.02	706310-3-B	8.00	8.00	8.00	8.00	706310-3-B

- (1) "AA" CONDUIT.
- (2) "AA" PIPE TAP.
- (3) CUSTOMER TO PROVIDE HOLE FOR CONDUIT.
- (4) TERMINAL BOX LOCATED ON OPPOSITE SIDE WHEN F-2, V-1, V-4, V-5, W-7, OR C-1 MOUNTING IS SPECIFIED. BOX LOCATED ON TOP WHEN SPECIFIED.
- (5) "X/P" TERMINAL BOX DIMENSIONS SEE 609979-2.
- (6) FOR MILL TYPE TERMINAL BOX DIMENSIONS SEE 609979-3.

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

REV. DESC: LOAD TO BUS	VERSION: 00	TDR: 000000958110
REV. LTR: -	REVISED: 08:37:45 12/17/2015	BY: RGGWT
FILE: \RGG\00026\318		
MTL: -		

DIM SHT,C3210ATZ THRU C3613ATZ,W/AUX C/BOX

SH 1 of 1

