



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

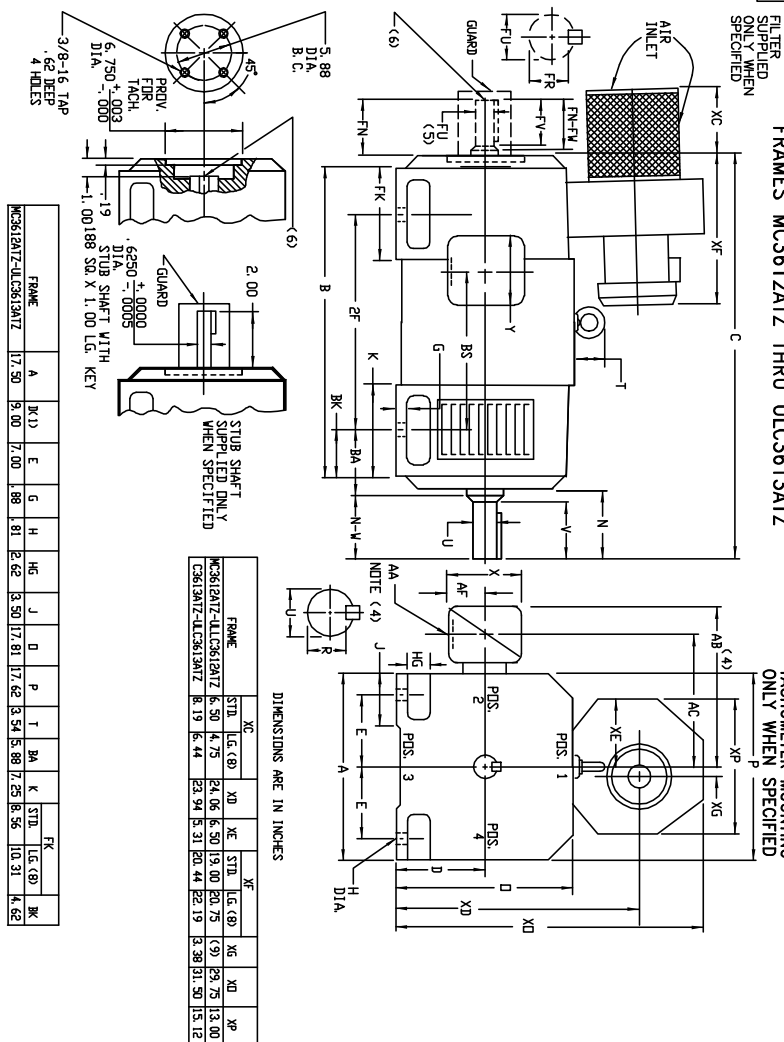
000613006HP									
CAT.NO.	D50250RR-BV	SPEC NO.		T36S1318					
FR	ULC 3612ATZ	HP	250		DUTY		CONT		
ENCL.	DP	RPM	1750/2000		S.F.		1.0		
ENCL MOD	FORCE VENT	VOLTS		500		INSUL		F	
MAX SAFE SPEED	2150	AMPS	405.00		AMB.		40		
FIELD DATA		SER.NO.							
WINDING	STR. SHUNT		POWER CODE		C				
VOLTS	300		D.E. 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
ENCLOSURE: DRIP-PROOF FULLY-GUARDED COOLING: FORCE VENTILATED
WITH INTEGRAL BLOWER AND MOTOR
MOUNTING:FOOT SPLASHPROOF AIR FILTERED

FRAMES MC3612ATZ THRU ULC3613ATZ

ACCESSORIES: PROVISION FOR TACHOMETER MOUNTING



FRAME	A	DK1)	E	G	H	HG	J	D	P	T	BA	K	FK		
													STL	LG (8)	
MC612ATZ-ULC361A17Z	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

[illegible]

- (1) "P" DIMENSION WILL NOT BE EXCEEDED, SHIMS UP TO .06 INCHES THICKNESS ARE USUALLY REQUIRED FOR COUPLED OR GEARED MACHINES.
 - (2) "W" AND "FIP" VARS-----4, 000 - 7015
 - (3) TERMINAL BOX VARIES WITH BOX FIBER DIRMENSIONS "4A", "4B", "4C", "4E", "X" AND "Y", REFER TO BOX D/S. (SITL 669797-1, 669797-2)
 - (4) MOTOR DRIVE END SHAFT SUPPLIED ONLY WHEN SPECIFIED
 - (5) HUBS MUST BE DRILLED FOR STOCK IN STOCK SHAFT
 - (6) MOTOR SHAFT APPLIED FOR STOCK IN STOCK SHAFT
 - (7) PDR, DRIVE END, AND .25 TO .75 DIA. FOR BROCKET COVER
 - (8) DIMENSION FROM FRAMES WITH PREFIX "LMC, LCC, LC36134VZ, LMC, ULC OR UL36134VZ"
 - (9) "YC" DIMENSION IS NOT APPLICABLE TO "C36124VZ" FRAMES
 - (10) BLUNDER MOTOR IS CENTERED ON SHAFT C/L
 - (11) SHAFT ROUNDT .003 MAX I.D. I.R.
- TERMINAL BOX CAN BE ROTATED FOR LEAD DUTLET 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 ON TOP WHEN SPECIFIED POSITIONS 1, 2 OR 4. ACCEPT BLUNDER ASSEMBLY Y AND TERMINAL BOX CAN NOT BE LOCATED AT THE SAME POSITION.
MOTOR WEIGHT MAY VARY 15% FOR NON-STANDARD RATINGS AND/OR ACCESSORIES.
TOLERANCES AND CLEARANCE DETAILS ARE REQUIRED, CONSULT FRODIN.

616042-001

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
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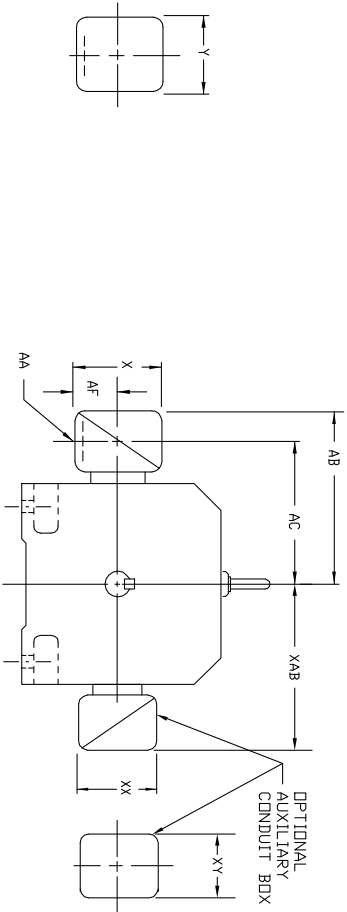
BALDOR - RELIANCE®

DIMENSION DRAWING,MC3612ATZ – ULC3613ATZ,DPP,FOOT MTG

SH 1 of 1

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						ONE SIZE LARGER						
		AA(1)	AB	AC	AF	X	Y	AA(1)	AB	AC	AF	X	Y	
C3210ATZ	128	2	14.88	11.38	4.25	8.44	7.25	74874-R	3	15.31	12.06	4.25	8.44	7.25
C3212ATZ	185	3	15.31	12.06	4.25	8.44	7.25	74874-24-R	4	16.75	12.69	5.38	10.56	9.00
C3214ATZ	269	4	16.75	12.69	5.38	10.56	9.00	700308-3-R	5	21.00	15.88	6.50	12.10	14.62
C3612ATZ	128	2	21.00	15.88	6.50	12.10	14.62	702658-1-C	3	21.00	15.88	6.50	12.10	14.62
C3612ATZ	185	3	15.31	12.06	4.25	8.44	7.25	74874-R	4	16.31	13.06	4.25	8.44	7.25
C3613ATZ	269	4	17.75	13.06	4.25	8.44	7.25	74874-24-R	4	17.75	13.69	5.38	10.56	9.00
C3613ATZ	500	5	22.00	15.88	6.50	12.10	14.62	700308-3-R	5	22.00	15.88	6.50	12.10	14.62
								702658-1-C						

CAST IRON TERMINAL BOX DIMENSIONS														
FRAME SIZE	MAX. AMPS	STANDARD SIZE						ONE SIZE LARGER						
		AA(2)	AB	AC	AF	X	Y	AA(2)	AB	AC	AF	X	Y	
C3210ATZ	128	1-1/2	13.62	11.19	3.00	6.00	7.00	75460-R	3	15.31	11.56	3.62	7.88	9.25
C3212ATZ	185	3	15.31	11.56	3.62	7.88	9.25	76708-R	4	16.62	12.44	4.12	9.50	10.50
C3214ATZ	269	4	16.62	12.44	4.12	9.50	10.50	76708-R	5	19.44	14.19	7.00	12.75	15.00
C3612ATZ	128	1-1/2	14.62	12.19	3.00	6.00	7.00	75460-R	3	16.31	12.19	3.62	7.88	9.25
C3612ATZ	185	3	16.31	12.56	3.62	7.88	9.25	76708-R	4	17.62	13.44	4.12	9.50	10.50
C3613ATZ	269	4	17.62	13.44	4.12	9.50	10.50	76708-R	5	20.44	15.19	7.00	12.75	15.00
C3613ATZ	500	5	20.44	15.19	7.00	12.75	15.00	76870-S	6	20.44	15.19	7.00	12.75	15.00
								76870-S						

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

OPTIONAL AUXILIARY CONDUIT BOX DIMENSIONS (MAXIMUM)														
FRAME SIZE	XAB	XX	XY	PART NUMBER	FRAME SIZE	XAB	XX	XY	PART NUMBER	FRAME SIZE	XAB	XX	XY	PART NUMBER
C320	10.00	4.25	4.25	602007-26-A	C320	13.50	8.00	8.00	706310-3-B	C320	13.50	8.00	8.00	706310-3-B
C360	11.00	4.25	4.25	602007-26-A	C360	14.50	8.00	8.00	706310-3-B	C360	14.50	8.00	8.00	706310-3-B

- (1) "AA" CONDUIT.
- (2) "AF" 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) "XY" TERMINAL BOX DIMENSIONS SEE 609979-2.
- (6) "Y" 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: -		



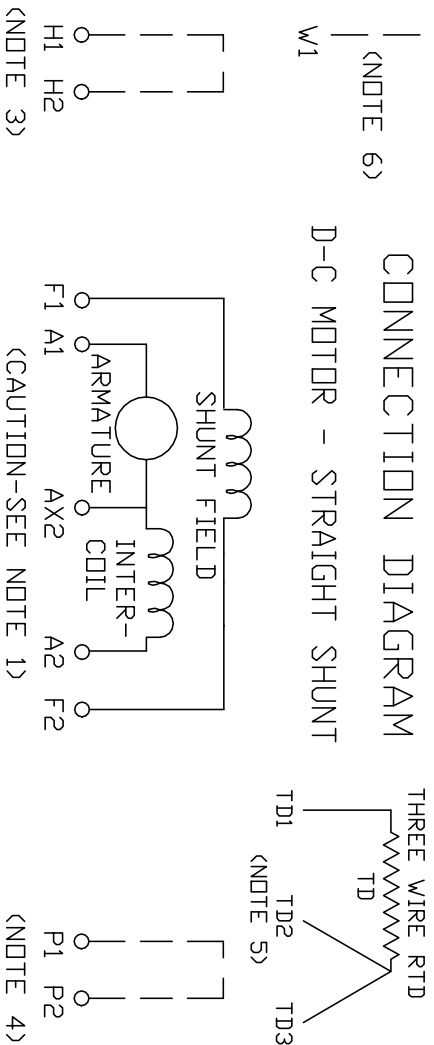
DIM SHT,C3210ATZ THRU C3613ATZ,W/AUX C/BOX
SH 1 of 1

CONNECTION DIAGRAM

--- (NOTE 6)

W1

D-C MOTOR - STRAIGHT SHUNT



ARMATURE AND FIELD EXTERNAL CONNECTIONS

WARNING- SEE NOTE 7 FOR GROUNDING INSTRUCTIONS



ROTATION FACING COMMUTATOR END

1. CAUTION — ARMATURE MAY HAVE MULTIPLE LEADS. CONNECT ALL LUGS WITH THE SAME MARKING TOGETHER.
2. OPTIONAL CONTROL SIGNAL LEAD IS MARKED AX2. ALWAYS TAKE INTERPOLE DROP BETWEEN A2 AND AX2. NOTE: NEMA DESIGNATION FOR AX2 IS LETTER C.
3. SPACE HEATERS, WHEN PROVIDED, WILL HAVE LEADS MARKED H1 AND H2, H3, H4, ETC.
4. THERMAL PROTECTOR, WHEN PROVIDED, WILL HAVE LEADS MARKED P1 AND P2, P3, P4, ETC.
5. WINDING RTD'S, WHEN PROVIDED, WILL HAVE LEADS MARKED TD1, TD2, & TD3.
6. BRUSH WEAR SENSOR, WHEN PROVIDED, WILL HAVE LEAD MARKED W1.
7. WARNING — MOTOR MUST BE GROUNDED TO PREVENT SERIOUS INJURIES TO PERSONNEL. GROUND THE MOTOR PER IEC, NATIONAL ELECTRICAL CODE AND ANY APPLICABLE LOCAL ELECTRICAL CODES. A TAPPED HOLE IS PROVIDED IN THE CONDUIT BOX, ON THE FOOT, FRAME BRACE OR OPPOSITE OPPOSITE DRIVE END BRACKET, ADJACENT TO THE TERMINAL BOX FOR FOR MOTOR GROUNDING. GROUND LEAD, WHEN PROVIDED, WILL BE GREEN.

CUSTOMER _____

CUSTOMER RELIANCE
ORDER NO. _____ S.D. NO. _____

REV. DESC: UPDATE LOGO AND TITLEBLOCK: LOADED TO BUS		
REV. LTR: -	VERSION: 00	TDR: 000000781086
FILE: \RSN\00026\515		REVISED: 02: 41: 08 02/01/2013
MTL: -		BY: MGHPC

BALDOR

D-C MOTOR CONNECTION DIAGRAM, STRAIGHT SHUNT

SH 1 of 1