

ABB BALDOR RELIANCE III

Customer information packet

D50300R-BV

300 1750 LC3613ATZ DPFV STR SHNT

Specifications

Enclosure	DP
Frame	LC3613ATZ
Frame Material	Steel
Output Power	300.000 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	LC
Heater Indicator	No Heater
Lifting Lugs	Standard Lifting Lugs
Motor Standards	NEMA
Mounting Arrangement	F2
Overall Length	50.12 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Slinger Indicator	No Slinger

Part Detail

Revision	-
Type	DC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	G8291A B
Layout	616042-001
Eff. date	04-13-2015
CD Diagram	406770-006
Poles	00
Leads	
Proprietary	False
Created date	04-09-2015

Nameplate

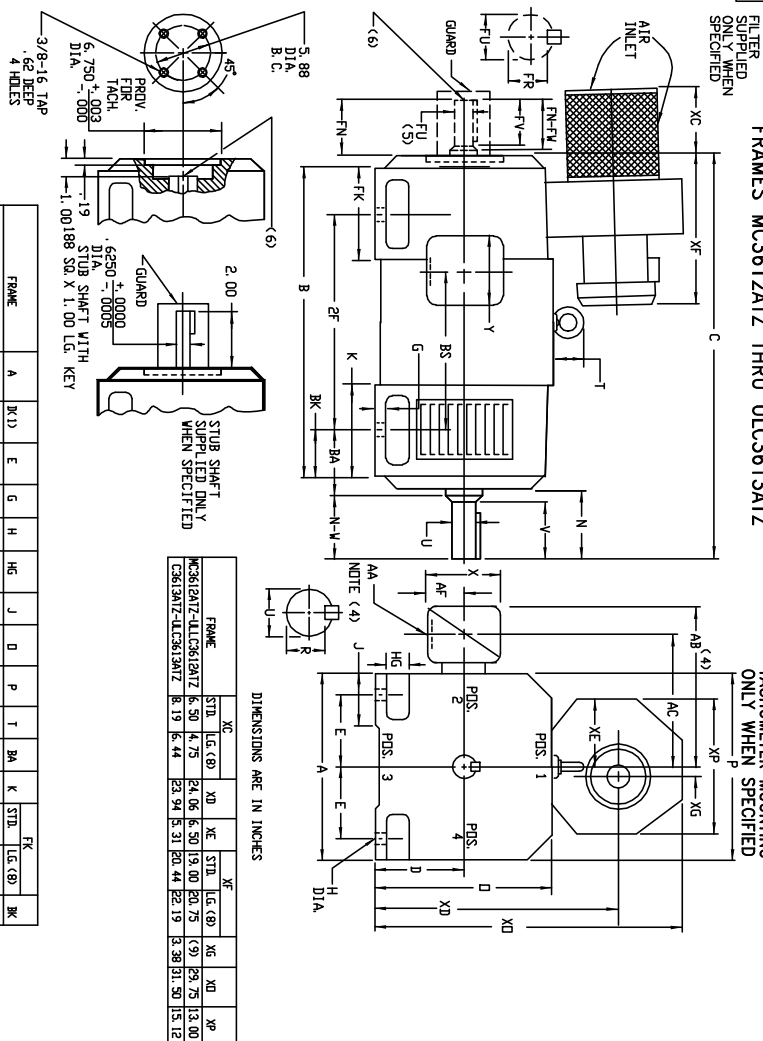
000613006HP									
CAT.NO.	D50300R-BV	SPEC NO.	T36S1319						
FR	LC 3613ATZ	HP	300			DUTY	CONT		
ENCL.	DP	RPM	1750/ 2000			S.F.	1.0		
ENCL MOD	FORCE VENT	VOLTS	500			INSUL	F		
MAX SAFE SPEED	3200	AMPS	478.00			AMB.	40		
FIELD DATA		SER.NO.							
WINDING	STR. SHUNT	POWER CODE	C						
VOLTS	300	D.E. BRG.	95BC02J30X						
MAX AMPS @ 25 C	12.57	O.D.E. BRG.	80BC02J30X						
HOT AMPS	8.71/ 7.37	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



- [illegible]

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®

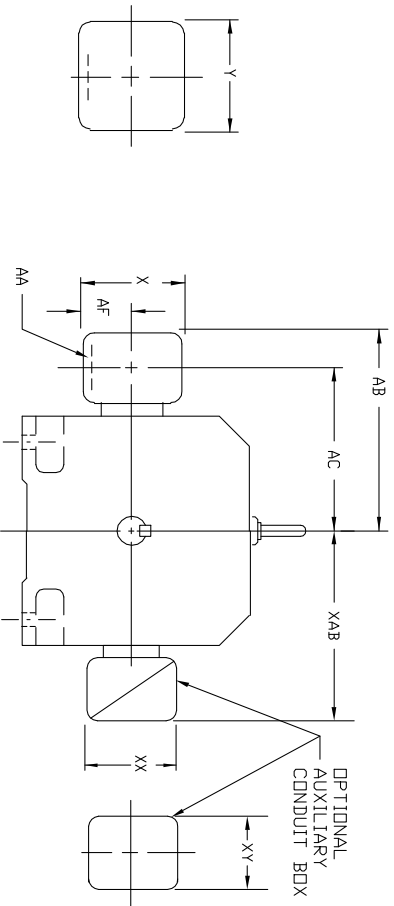
DIMENSION DRAWING,MC3612ATZ – ULC3613ATZ,DPP,FOOT MTG
SH 1 of 1

616042-001

INDUSTRIAL DIRECT CURRENT MOTORS
AND GENERATORS – RPM III

609979-003

HOFFMAN TERMINAL BOX – MILL TYPE
FRAMES C3210ATZ THRU C3612ATZ



DIMENSIONS ARE IN INCHES

TERMINAL BOX DIMENSIONS				F1 MOUNTING		
FRAME SIZE	MAX. AMPS	AA	AB	AC	AF	X Y PART NUMBER
C3210ATZ 128	2	15.47	12.06	6.00	16.00	16.00 706310-3G
C3212ATZ 185	3	15.47	12.06	6.00	16.00	16.00 706310-3H
C3214ATZ 269	4	15.47	12.06	6.00	16.00	16.00 706310-3J
(1)	500	(2)	15.47	12.06	6.00	16.00 706310-3F
C3612ATZ 185	3	16.47	13.06	6.00	16.00	16.00 706310-3G
C3613ATZ 269	4	16.47	13.06	6.00	16.00	16.00 706310-3H
(1)	500	(2)	16.47	13.06	6.00	16.00 706310-3F

TERMINAL BOX DIMENSIONS				F2 MOUNTING		
FRAME SIZE	MAX. AMPS	AA	AB	AC	AF	X Y PART NUMBER
C3210ATZ 128	2	15.47	12.06	6.00	16.00	16.00 706310-4G
C3212ATZ 185	3	15.47	12.06	6.00	16.00	16.00 706310-4H
C3214ATZ 269	4	15.47	12.06	6.00	16.00	16.00 706310-4J
(1)	500	(2)	15.47	12.06	6.00	16.00 706310-4F
C3612ATZ 185	3	16.47	13.06	6.00	16.00	16.00 706310-4G
C3613ATZ 269	4	16.47	13.06	6.00	16.00	16.00 706310-4H
(1)	500	(2)	16.47	13.06	6.00	16.00 706310-4F

OPTIONAL AUXILIARY CONDUIT BOX DIMENSIONS (MAXIMUM)							
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
C360	11.00	4.25	4.25	602007-26-A	C360	14.50	8.00 8.00 706310-3-B

(1) SUBTRACT 4.50 FROM "BC" DIMENSION SHOWN ON MOTOR DIMENSION SHEET.
(2) TERMINAL BOX LOCATED ON OPPOSITE SIDE OR ON TOP WHEN SPECIFIED.
BOX FOR CONDUIT AS REQUIRED.

300-646609

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

REV. DESC: LOAD TO BUS	VERSION: 00	TDR: 000000958120
REV. LTR: -	REVISED: 03:12:59 12/17/2015	BY: RGGWT
FILE: \RGG\00026\326		
MTL: -		



BALDOR

DIM SHT,C3210ATX THRU C3612ATZ,MILL TYPE TERMINAL BOX

SH 1 of 1

406770-006			406770-006							
CONNECTION DIAGRAM D-C MOTOR - STRAIGHT SHUNT W1 <NOTE 6> H1 H2 <NOTE 3> SHUNT FIELD ARMATURE INTER-COIL F1 A1 AX2 A2 F2 <CAUTION-SEE NOTE 1> TD1 TD2 TD3 <NOTE 5> THREE WIRE RTD CCW ROTATION A1 A2 F1 F2 CW ROTATION A1 A2 F1 F2 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 MOTOR GROUNDING. GROUND LEAD, WHEN PROVIDED, WILL BE GREEN. CUSTOMER _____ ORDER NO. _____ S.D. NO. _____ CUSTOMER _____ RELIANCE _____		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	