

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									

Parts List

Part number	Description	Quantity
SA297013	SA T36S1319	1.000 ea
AA016064	AA T36S1319	1.000 ea
000613006HP	NAMEPLATE - RPM III D-C MOTOR W/CSA LOGO	1.000 ea
000692000FP	NP, WARNING LIFT INSTRUCTIONS	1.000 ea
000692000FS	WARNING LABEL	1.000 ea
033775004EA	DRSCR #6-1/4 304 S.S.	6.000 ea
406770006	C/D TAG STRAIGHT SHUNT	1.000 ea
036000014JB	M8 X 1.25X14MM HXHDCS	4.000 ea
036000020KB	MHHCS M10-1.5X20MM PLTD.	4.000 ea
036501009AB	M8-1.25 X 9MM HEX NUTS	8.000 ea
036600009AB	METRIC FLWASH M8 PLATED	4.000 ea
036610010AB	MHSLW M10 PLATED	4.000 ea
419904-52AB	BRUSH C	12.000 ea
419905003A	FLAT WASHER ROCKER RPM III RGG	4.000 ea
419905004A	HARDWARE	8.000 ea
706364052RH	BRHLD METRIC SPRING CHG.	4.000 ea
706372012RC	ROCKR METRIC	1.000 ea
034693001AB	PPLG - G508- use 034692001AB	1.000 ea
034693001AB	PPLG - G508- use 034692001AB	1.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
035000001BB	GREASE FTG,GRS.IN	1.000 ea
036000070KB	HHCS,BLOCKING PLT	4.000 ea
036100080KA	M10-1.50X 80MM HXSOCHDCS	4.000 ea
036500013AB	M16 X 2.0 HX NUT,ODE BRKT 304589	4.000 ea
036500013AB	M16 X 2.0 HX NUT,ODE BRKT 304589	4.000 ea
406055001C	GRFTG	1.000 ea
418150003A	GREASE FITTING CAP	2.000 ea
419912001B	W WASHER	1.000 ea
609830005ABA	TBOLT METRIC	4.000 ea
801932104C	BRKT,ODE,C360	1.000 ea
801933102A	BRKT,DE,C360	1.000 ea

000613006NT	NAME PLATE IEC	1.000 ea
032018004CK	HHCS 3/8-16X1/2L PLATED	4.000 ea
032018006CK	HHCS 3/8-16X3/4L PLATED 411409	4.000 ea
034017014AB	LCKW 3/8 STD. PLATED	4.000 ea
036000012JB	M8-1.25 X 12MM HXHDC	3.000 ea
036000020JB	HHCS M8-1.25X20L PLTD-250	6.000 ea
036000045JB	M8-1.25 X 45MM HXHCS	4.000 ea
036620009AB	M8 EXTERNAL LK WASHER	1.000 ea
410978010F	FLANGE, INLET BLOWER HSG	1.000 ea
410978015A	GRILL, INLET FLANGE	1.000 ea
417733004F	GASKT	2.000 ea
418014004A	609185004cDPT/BOX	1.000 ea
418018074A	GROUND LABEL G100 METRIC 160 D.C.	1.000 ea
422919105	HHCVR KIT,C360,DE,SOLID	1.000 ea
422919107	HHCVR KIT,C360,DE, LOUVERED	1.000 ea
422919107	HHCVR KIT,C360,DE, LOUVERED	1.000 ea
422919116	HHCVR KIT,C360,ODE,SOLID	1.000 ea
422919116	HHCVR KIT,C360,ODE,SOLID	1.000 ea
610490001BW	32M 2P TEFC VER 145TCZ S/P32-6 SUPER E	1.000 ea
611917002J	GASKET, NEOPRENE	1.000 ea
611965001E	BLOWER WHEEL	1.000 ea
706305026A	GUARD,SHAFT	1.000 ea
706310004F	CBOX MILL ENG/METRIC	1.000 ea
706313062E	BLOWER HOUSING	1.000 ea
000640000P	TAG WINDING THERMOST	1.000 ea
000692000NG	LABEL ;NP 4POLE METRIC LABEL	1.000 ea
034180034JA	KEY 3/4X3/4X4-1/4 L	1.000 ea
418018071	LABEL LABE	1.000 ea

616042-001

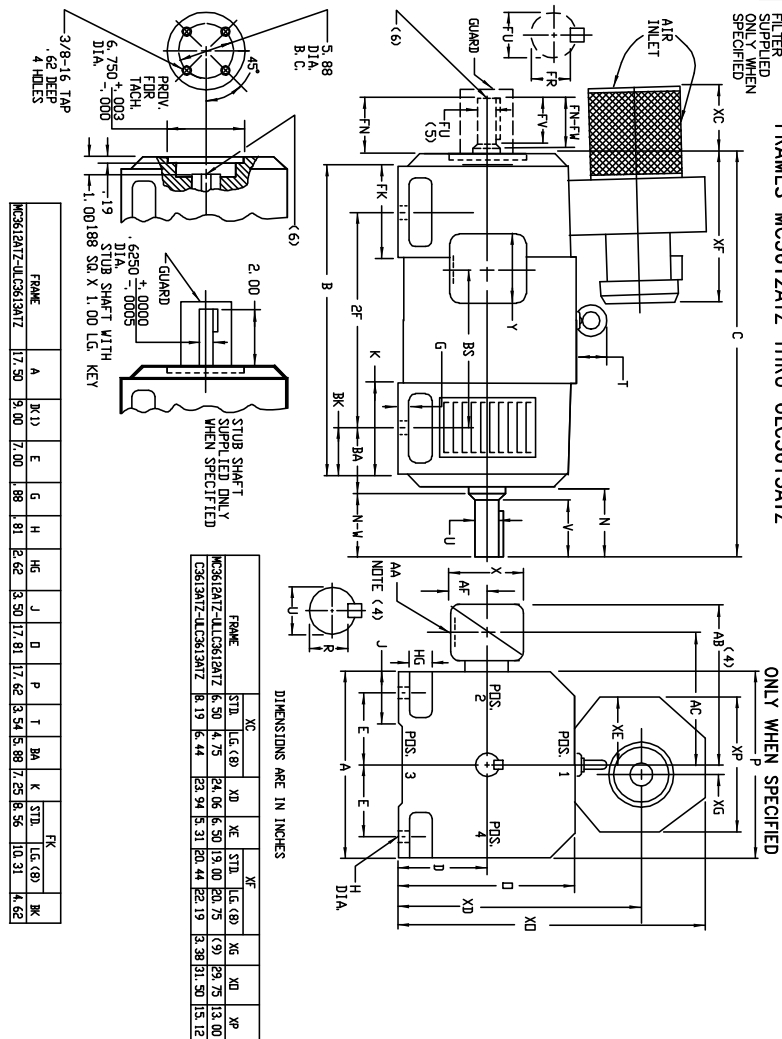
INDUSTRIAL DIRECT CURRENT MOTORS
AND GENERATORS - RPM III
DRIP-PROOF FULLY-GLAZED COOLING: FORCE VENT
INSURE:

**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
UC63E1A1Z - UC63E1A1Z	BLT	42	88	44	56	19	12	89	0.0	5.0	5.0	2.8	6.0	4.0	4.0	4.25	16.85
UC63E1A2Z - UC63E1A2Z	BLT	43	42	38	34	44	18	12	89	0.0	5.0	5.0	2.8	6.0	4.0	4.25	16.85
UC63E1A3Z - UC63E1A3Z	BLT	43	42	38	34	44	18	12	89	0.0	5.0	5.0	2.8	6.0	4.0	4.25	16.85
UC63E1A4Z - UC63E1A4Z	BLT	46	42	38	34	44	18	12	89	0.0	5.0	5.0	2.8	6.0	4.0	4.25	16.85
UC63E1A5Z - UC63E1A5Z	BLT	47	42	38	34	44	18	12	89	0.0	5.0	5.0	2.8	6.0	4.0	4.25	16.85
UC63E1A6Z - UC63E1A6Z	BLT	46	42	38	34	44	18	12	89	0.0	5.0	5.0	2.8	6.0	4.0	4.25	16.85
UC63E1A7Z - UC63E1A7Z	BLT	47	42	38	34	44	18	12	89	0.0	5.0	5.0	2.8	6.0	4.0	4.25	16.85
UC63E1A8Z - UC63E1A8Z	BLT	50	48	35	31	48	20	14	92	0.0	5.0	5.0	2.8	6.0	4.0	4.25	16.85
UC63E1A9Z - UC63E1A9Z	BLT	50	48	35	31	48	20	14	92	0.0	5.0	5.0	2.8	6.0	4.0	4.25	16.85
UC63E1B1Z - UC63E1B1Z	BLT	51	49	33	29	44	19	13	90	0.0	5.0	5.0	2.8	6.0	4.0	4.25	16.85
UC63E1B2Z - UC63E1B2Z	BLT	51	49	33	29	44	19	13	90	0.0	5.0	5.0	2.8	6.0	4.0	4.25	16.85
UC63E1B3Z - UC63E1B3Z	BLT	51	49	33	29	44	19	13	90	0.0	5.0	5.0	2.8	6.0	4.0	4.25	16.85
UC63E1B4Z - UC63E1B4Z	BLT	51	49	33	29	44	19	13	90	0.0	5.0	5.0	2.8	6.0	4.0	4.25	16.85
UC63E1B5Z - UC63E1B5Z	BLT	51	49	33	29	44	19	13	90	0.0	5.0	5.0	2.8	6.0	4.0	4.25	16.85
UC63E1B6Z - UC63E1B6Z	BLT	51	49	33	29	44	19	13	90	0.0	5.0	5.0	2.8	6.0	4.0	4.25	16.85
UC63E1B7Z - UC63E1B7Z	BLT	51	49	33	29	44	19	13	90	0.0	5.0	5.0	2.8	6.0	4.0	4.25	16.85
UC63E1B8Z - UC63E1B8Z	BLT	51	49	33	29	44	19	13	90	0.0	5.0	5.0	2.8	6.0	4.0	4.25	16.85
UC63E1B9Z - UC63E1B9Z	BLT	51	49	33	29	44	19	13	90	0.0	5.0	5.0	2.8	6.0	4.0	4.25	16.85
UC63E1C1Z - UC63E1C1Z	BLT	51	49	33	29	44	19	13	90	0.0	5.0	5.0	2.8	6.0	4.0	4.25	16.85
UC63E1C2Z - UC63E1C2Z	BLT	51	49	33	29	44	19	13	90	0.0	5.0	5.0	2.8	6.0	4.0	4.25	16.85
UC63E1C3Z - UC63E1C3Z	BLT	51	49	33	29	44	19	13	90	0.0	5.0	5.0	2.8	6.0	4.0	4.25	16.85
UC63E1C4Z - UC63E1C4Z	BLT	51	49	33	29	44	19	13	90	0.0	5.0	5.0	2.8	6.0	4.0	4.25	16.85
UC63E1C5Z - UC63E1C5Z	BLT	51	49	33	29	44	19	13	90	0.0	5.0	5.0	2.8	6.0	4.0	4.25	16.85
UC63E1C6Z - UC63E1C6Z	BLT	51	49	33	29	44	19	13	90	0.0	5.0	5.0	2.8	6.0	4.0	4.25	16.85
UC63E1C7Z - UC63E1C7Z	BLT	51	49	33	29	44	19	13	90	0.0	5.0	5.0	2.8	6.0	4.0	4.25	16.85

- (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" VARIATIONS: H.D. - .0015
H.P. - .0015
- (3) TERMINAL BOX VARIANTS WITH A H.P. FIRM
"AC", "AR", "X", "Y", REFER TO BOX D/S. (STD. 6069797-1,
"Y" 6069797-2, MILL 6069797-3)
- (4) DEPRESSIT DRIVE END SHAFT SUPPLIED ONLY WHEN SPECIFIED.
- (5) MILL SHAFT APPLIED FOR STOCK IN STOCK SHOWN THE JUST OF
DRIVE END, AND 25 TO 42 DIA. FIB BRACKET COVER.
- (6) DEPRESSIT FIB FRAMES WITH PREFIX UMC, LMC, LCB361304Z, ULMC,
ULIC OR ULCB361301Z
- (7) "Y" DIMENSION IS NOT APPLICABLE TO "CB361201Z" FRAMES
(ALUMINUM SHAFT IS CENTERED ON SHAFT C/L)
- (10) SHAFT ROUND: .003 MAX. T.I.R.

TEMPERATURE BOX CAN BE ROTATED FOR LEAD DUTLET AT TOP, SIDES OR BOTTOM.

TEMPERATURE BOX LOCATED ON OPPOSITE SIDE WHEN F-2, W-1, V-4, V-5, W-7, OR C-1 MOUNTING IS SPECIFIED.

BOX LOCATED IN TOP WHEN SPECIFIED.

BLOWER ASSEMBLY CAN BE LOCATED AT POSITIONS 1, 2, OR 4, EXCEPT BLOWER ASSEMBLY AND TEMPERATURE BOX CAN NOT BE LOCATED AT THE SAME POSITION.

WINDOR WEIGHT MAY VARY 15% FOR NON-STANDARD RATINGS.

MINIMUM 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

Page 7 of 8

406770-006			406770-006		
CONNECTION DIAGRAM D-C MOTOR - STRAIGHT SHUNT W1 <NOTE 6> H1 H2 SHUNT FIELD INTER-COIL ARMATURE F1 A1 A2 F2 <NOTE 3> <CAUTION-SEE NOTE 1> <NOTE 4> THREE WIRE RTD TD1 TD2 TD3 <NOTE 5> ARMATURE AND FIELD EXTERNAL CONNECTIONS WARNING- SEE NOTE 7 FOR GROUNDING INSTRUCTIONS A1 A2 F1 F2 CCW ROTATION A1 A2 F1 F2 CW ROTATION 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 CUSTOMER ORDER NO. RELIANCE S.D. NO.					
REV. DESC: UPDATE LOGO AND TITLEBLOCK: LOADED TO BUS		BALDOR D-C MOTOR CONNECTION DIAGRAM, STRAIGHT SHUNT SH 1 of 1			
REV. LTR: -	VERSION: 00				TDR: 000000781086
FILE: \RSN\00026\515	REVISED: 02: 41:08 02/01/2013				
MTL: -	BY: MGHPC				