

ABB BALDOR RELIANCE III

Customer information packet

D50125RS-BV

125HP, 1750RPM, DC, 3212ATZ, DPG-FV,

Specifications

Enclosure	DP
Frame	LC3212ATZ
Frame Material	Exposed Laminations
Output Power	125.000 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	STAB SHUNT
Frame Prefix	LC
Heater Indicator	No Heater
Lifting Lugs	Standard Lifting Lugs
Motor Standards	NEMA
Mounting Arrangement	F2
Overall Length	41.50 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.	G7297B A
Layout	616032-034
Eff. date	04-13-2015
CD Diagram	406770-001
Poles	00
Leads	
Proprietary	False
Created date	04-09-2015

Nameplate

000613006LP									
CAT.NO.	D50125RS-BV	SPEC NO.		T32T1318					
FR	LC 3212ATZ	HP	125		DUTY		CONT		
ENCL.	DP	RPM	1750/ 2000			S.F.	1.0		
ENCL MOD	FORCE VENT	VOLTS		500		INSUL		F	
MAX SAFE SPEED	3600	AMPS		203.00		AMB.		40	
FIELD DATA		SER.NO.							
WINDING	STAB SHUNT	POWER CODE		C					
VOLTS	300	D.E. BRG.		70BC03J30X					
MAX AMPS @ 25 C	4.40	O.D.E. BRG.		60BC02J30X					
HOT AMPS	3.18/ 2.59	MIN. AMB.		0		TYPE		TR	
BRUSH:419904052Z; AIR BAFFLED									

Parts List

Part number	Description	Quantity
SA297030	SA T32T1318	1.000 ea
AA016081	AA T32T1318	1.000 ea
000613006LP	EXTRUDER DUTY D-C MOTOR W/CSA	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.	8.000 ea
406770001	C/D TAG (STAB 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
419904-52Z	BRUSH C	8.000 ea
419905003A	FLAT WASHER ROCKER RPM III RGG	4.000 ea
419905004A	HARDWARE	8.000 ea
706364052D	BRHLD METRIC SPRING CHG.	4.000 ea
706372012RA	ROCKR METRIC	1.000 ea
004824015A	GREASE POLYREX EM	0.400 lb
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
036000080KB	HHCSM10-1.5X80MMPLTD-360	3.000 ea
036100065KA	M10-1.5 X 65MM HXSOCHDCS	3.000 ea
036310012FB	PHMS M4 X 12MM M2	8.000 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
036501006AB	KPNUT M4 ZINC	8.000 ea
049730000L	BPLUG	6.000 ea
400638001AF	WWSHR OS-H-KK-2	1.000 ea
412118001B	3/8-16 X 3/4 DRAIN SSTL.	1.000 ea

418057013A	GROMT	4.000 ea
418150003A	GREASE FITTING CAP	2.000 ea
609830005Z	TBOLT METRIC RP609830-	4.000 ea
706311001E	BAFFLE PLATE	1.000 ea
706311001F	BAFFLE INSULATOR	1.000 ea
706311001X	BAFLE	1.000 ea
801930052A	BRKT,ODE,C320	1.000 ea
801931060A	BRKT,DE,C320	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
036000012HB	HHCS M6X12MM LONG PLATED	4.000 ea
036000012JB	M8-1.25 X 12MM HXHDC	3.000 ea
036000016KB	HHCSM10-1.5X16MM PLTD-280	2.000 ea
036000020JB	HHCS M8-1.25X20L PLTD-250	6.000 ea
036000020JB	HHCS M8-1.25X20L PLTD-250	6.000 ea
036000045HB	MHHCS M6X45MM PLATED	3.000 ea
036000045JB	M8-1.25 X 45MM HXHCS	4.000 ea
036010012GB	M5-.8 X 12 HXWHD SCREW	6.000 ea
036600009AB	METRIC FLWASH M8 PLATED	3.000 ea
036620009AB	M8 EXTERNAL LK WASHER	1.000 ea
036620010AB	M10 EXT. TOOTH LK WASHER	2.000 ea
077176001A	CBOX Cover 360-400	1.000 ea
402731001A	GASK 360-440	1.000 ea
410978010E	INLET FLGE	1.000 ea
410978019A	SCREEN, INLET FLANGE	1.000 ea
415000003E	T/LUG #4AWG-1/0AWG W/HOLE FOR .375 BOLT	1.000 ea
417077121	FILTER KIT	1.000 ea
417733004E	GASKT	2.000 ea
418014004A	609185004cDPT/BOX	1.000 ea
418018070A	TAG "WARNING THERMOSTA	1.000 ea
418018074A	GROUND LABEL G100 METRIC 160 D.C.	3.000 ea
422919079	HHCVR KIT, C320, DE, SOLID	1.000 ea

422919079	HHCVR KIT, C320, DE, SOLID	1.000 ea
422919079	HHCVR KIT, C320, DE, SOLID	1.000 ea
422919090	HHCVR KIT,C320,ODE,SOLID	1.000 ea
422919090	HHCVR KIT,C320,ODE,SOLID	1.000 ea
422919101	HHCVR KIT,C320,ODE, LEXAN	1.000 ea
610409044A	ADAPT	1.000 ea
610490001DG	2HP,3450//2890RPM,3PH,60//50HZ,56C,3532M	1.000 ea
611917001H	GASKT	1.000 ea
611917002H	GASKT	1.000 ea
611965001A	WHEEL, BLOWER	1.000 ea
705034036A	BAFFL	1.000 ea
706303021A	GUARD	2.000 ea
706303021B	GUARD	2.000 ea
706305026A	GUARD,SHAFT	1.000 ea
706320016A	CONDUIT BOX	1.000 ea
708528004F	HOUSING, BLOWER	1.000 ea
000640000P	TAG WINDING THERMOST	1.000 ea
000692000NG	LABEL ;NP 4POLE METRIC LABEL	1.000 ea
004824007K	SPECIAL PAINT	0.200 ea
034180032HA	KEY 5/8X5/8X4	1.000 ea
418018116	WARNING PLATE	1.000 ea

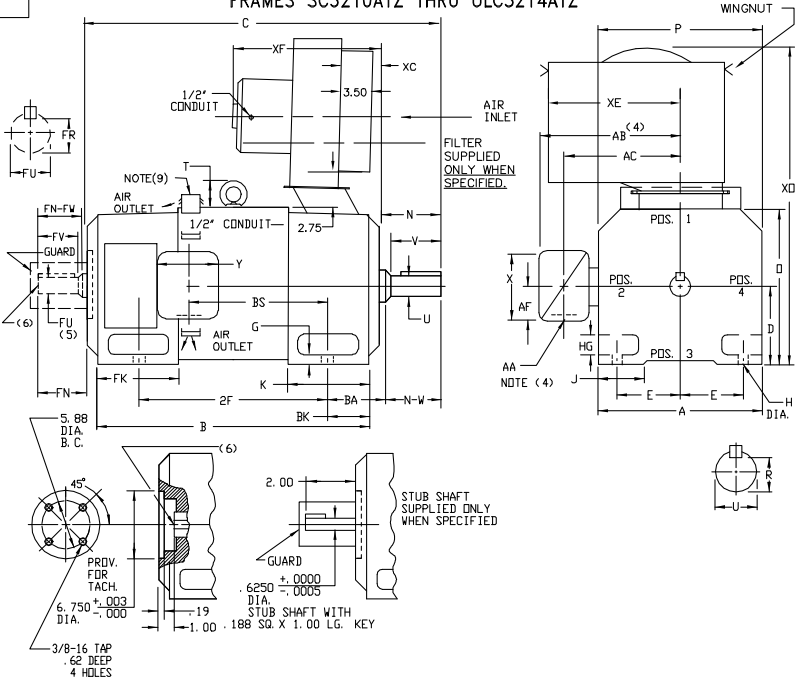
616032-034

ENCLOSURE: DRIP-PROOF FULLY-GUARDED
MOUNTING: FOOT

INDUSTRIAL DIRECT CURRENT MOTORS
AND GENERATORS - RPM III

COOLING: FORCE VENTILATED WITH
INTEGRAL BLOWER AND
MOTOR AIR FILTERED-
SPECIAL BAFFLE

FRAMES SC3210ATZ THRU ULC3214ATZ



DIMENSIONS ARE IN INCHES

FRAME	XC	XE	XF	XO
SC3210ATZ-ULC3214ATZ	4.00	10.00	20.25	31.12

FRAME	A	IK(1)	E	G	H	HG	J	D	P	T	BA	K	STB	LG.(8)	BK
SC3210ATZ-ULC3214ATZ	15.50	8.00	6.25	.75	.69	2.25	3.00	15.81	15.62	3.54	5.25	6.75	7.94	10.44	4.00

FRAME	METHOD OF DRIVE	METHOD OF DRIVE				DRIVE END SHAFT AND KEY												OPPOSITE DRIVE END SHAFT AND KEY								WT.
		C(7)	B	BS	2F	N	N-W	UK(2)	V	R(3)	SD	LGTH	FN	FN-FW	FUK(2)	FV	FR(3)	SO	LGTH							
SC3210ATZ - LSC3210ATZ	COUPLED	36.25	38.75	28.31	30.81	13.38	20.00	5.50	5.25	2.625	5.00	2.275	6.25	4.00	4.75	4.50	2.250	4.25	1.972	500	3.25	1115				
USC3210ATZ - ULC3210ATZ	BELTED	36.75	39.25	28.31	30.81	13.38	20.00	6.00	5.75	2.875	5.50	2.450	7.50	4.25	4.75	4.50	2.250	4.25	1.972	500	3.25	1120				
MC3210ATZ - LMC3210ATZ	COUPLED	39.25	41.75	31.31	33.81	16.38	25.00	5.50	5.25	2.625	5.00	2.275	6.25	4.00	4.75	4.50	2.250	4.25	1.972	500	3.25	1210				
UMC3212ATZ - ULMC3212ATZ	BELTED	39.75	42.25	31.31	33.81	16.38	25.00	6.00	5.75	2.875	5.50	2.450	7.50	4.25	4.75	4.50	2.250	4.25	1.972	500	3.25	1215				
LC3212ATZ - LLLC3212ATZ	COUPLED	41.25	43.75	33.31	35.81	18.38	25.00	5.50	5.25	2.625	5.00	2.275	6.25	4.00	4.75	4.50	2.250	4.25	1.972	500	3.25	1290				
ULC3212ATZ - ULLC3212ATZ	BELTED	41.75	44.25	33.31	35.81	18.38	25.00	6.00	5.75	2.875	5.50	2.450	7.50	4.25	4.75	4.50	2.250	4.25	1.972	500	3.25	1295				
C3214ATZ - LC3214ATZ	COUPLED	46.25	48.75	38.31	40.81	23.38	32.00	5.50	5.25	2.625	5.00	2.275	6.25	4.00	4.75	4.50	2.250	4.25	1.972	500	3.25	1470				
UC3214ATZ - ULC3214ATZ	BELTED	46.75	49.25	38.31	40.81	23.38	32.00	6.00	5.75	2.875	5.50	2.450	7.50	4.25	4.75	4.50	2.250	4.25	1.972	500	3.25	1475				

- (1) "D" DIMENSION WILL NOT BE EXCEEDED. SHIMS UP TO .06 INCHES IN THICKNESS ARE USUALLY REQUIRED FOR COUPLED OR GEARED MACHINES.
(2) "U" & "FU" VARY----.000 --.001
(3) "R" & "FR" VARY----.000 --.015
(4) TERMINAL BOX VARIES WITH H.P. FOR DIMENSIONS "AA", "AB", "AC", "AF", "X" AND "Y". REFER TO BOX D/S. (STD. 699979-1, *X/p/ 609979-2, MILL 609979-3)
(5) OPPOSITE DRIVE END SHAFT SUPPLIED ONLY WHEN SPECIFIED.
(6) MOTOR SHAFT TAPPED FOR SCREW IN STUB SHAFT.
(7) WHEN THE MOTOR APPLICATION DOES NOT REQUIRE THE USE OF DPP, DRIVE END, ADD .25 TO "C" DIM. FOR BRACKET COVER.
(8) DIMENSION FOR FRAMES WITH PREFIX LSC, LMC, LLC, LC, ULSC, ULMC, ULLC OR ULC.
(9) FOR HORIZONTAL APPLICATIONS ONLY.
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 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. DESC: LOADED TO BUS	VERSION: 00	TDR: 000000578087
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MTL: -		

BALDOR

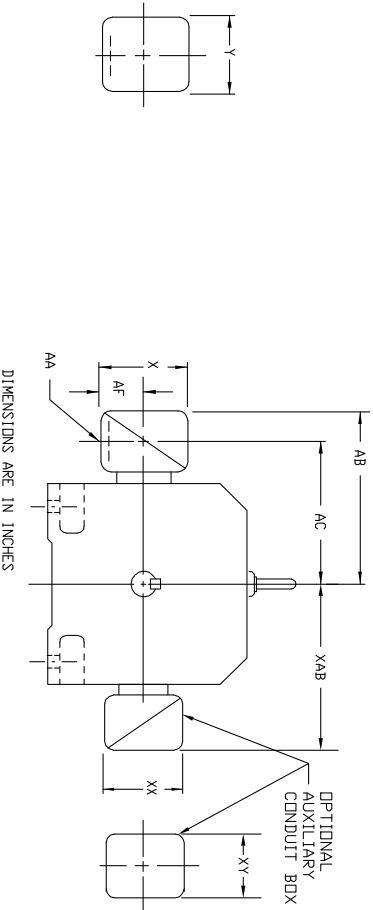
DIMENSION DRAWING, SC3210ATZ - ULC3214ATZ, DPP, FOOT MTG

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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 AMP	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	16.75	12.69	5.38	10.56	9.00
C3212ATZ	269	4	16.75	12.69	5.38	10.56	21.00	15.88	6.50	12.10	14.62
C3214ATZ	500	5	21.00	15.88	6.50	12.10	26.25	20.13	8.44	14.62	17.06
C3612ATZ	185	3	15.31	12.06	4.25	7.25	16.75	12.69	5.38	10.56	9.00
C3613ATZ	269	4	17.75	13.69	5.38	10.56	22.00	15.88	6.50	12.10	14.62
C3614ATZ	500	5	22.00	15.88	6.50	12.10	27.25	20.13	8.44	14.62	17.06

CAST IRON TERMINAL BOX DIMENSIONS											
FRAME SIZE	MAX AMP	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	16.75	12.44	4.12	9.50	10.50
C3212ATZ	269	4	16.62	12.44	4.12	9.50	19.44	14.19	7.00	12.75	15.00
C3214ATZ	500	5	19.44	14.19	7.00	12.75	24.69	17.06	9.25	15.00	17.06
C3612ATZ	185	3	15.31	11.56	3.62	7.88	16.75	12.44	4.12	9.50	10.50
C3613ATZ	269	4	17.62	13.44	4.12	9.50	20.44	15.19	7.00	12.75	15.00
C3614ATZ	500	5	20.44	15.19	7.00	12.75	25.69	17.06	9.25	15.00	17.06

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

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

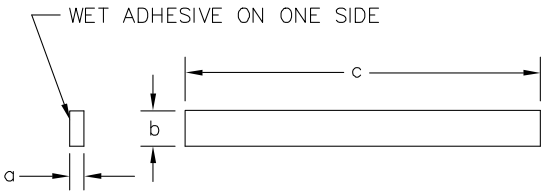
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FILE: \RGG\00026\318		
MTL: -		



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

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065564-004



SYM	MAKE FROM	a	b	c	REMARKS
A	X	1/8	5/8	24*	TERMBX & CVR 180AT-250AT
B	X	1/8	5/8	37 1/2*	TERMBX & CVR 280AT-320AT
C	Y	1/4	5/8	44 1/2Δ	FILTER TO HOUSING GASKET
D	X	1/8	5/8	170"	TEAO HEAT EXCH.
E	Y	1/4	5/8	72"Δ	TERMBX & CVR

SYM	MAT'L SPEC	a	b	c
X	46024-XV	1/8	5/8	* 50' ROLL; WET ADHESIVE ON ONE SIDE
Y	46024-XV	1/4	5/8	* 50' ROLL; WET ADHESIVE ON ONE SIDE

Δ RELIANCE WILL CUT AND MOUNT ON FILTER HOUSING PER
ASSEMBLY DRAWING 603989-2.

* PROD. NOTE: WHEN ORDERING THRU PURCHASING
ORDER AS 50 FT. ROLLS, WET ADHESIVE ON ONE
SIDE. RELIANCE WILL CUT AND MOUNT ON COVER.
PER INSTRUCTIONS ON COVER DRAWINGS.

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

REV. DESC: CHANGE DESCRIPTION ON TITLE BLOCK		
REV. LTR: C	VERSION: 03	TDR: 000000571980
FILE: \RGG\00000\220	REVISED: 10:54:04 12/16/2010	BY: RGGWT
MTL: -		

BALDOR
GASKET,STRIP,CLOSED CELL NEOPRENE
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065564-004

