

ABB BALDOR RELIANCE III

Customer information packet

D50200RR-BV

200HP, 1750RPM, DC, 3214ATZ, DPG-FV,

Specifications

Enclosure	DP
Frame	UC3214ATZ
Frame Material	Steel
Output Power	200.000 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	UC
Heater Indicator	No Heater
Lifting Lugs	Standard Lifting Lugs
Motor Standards	NEMA
Mounting Arrangement	F2
Overall Length	46.75 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.	G8032B F
Layout	616032-001
Eff. date	06-28-2021
CD Diagram	406770-006
Poles	00
Leads	
Proprietary	False
Created date	04-09-2015

Nameplate

000613006HP									
CAT.NO.	D50200RR-BV	SPEC NO.	T32T1322						
FR	UC 3214ATZ	HP	200		DUTY	CONT			
ENCL.	DP	RPM	1750/2100			S.F.	1.0		
ENCL MOD	FORCE VENT	VOLTS	500			INSUL	F		
MAX SAFE SPEED	03600	AMPS	322.00			AMB.	40		
FIELD DATA		SER.NO.							
WINDING	STR. SHUNT	POWER CODE	C						
VOLTS	300	D.E. BRG.	85RU02M30X						
MAX AMPS @ 25 C	8.37	O.D.E. BRG.	65BC02J30X						
HOT AMPS	5.88/4.75	MIN. AMB.	0			TYPE	TR		
	BRUSH:419904052AF								

616032-001

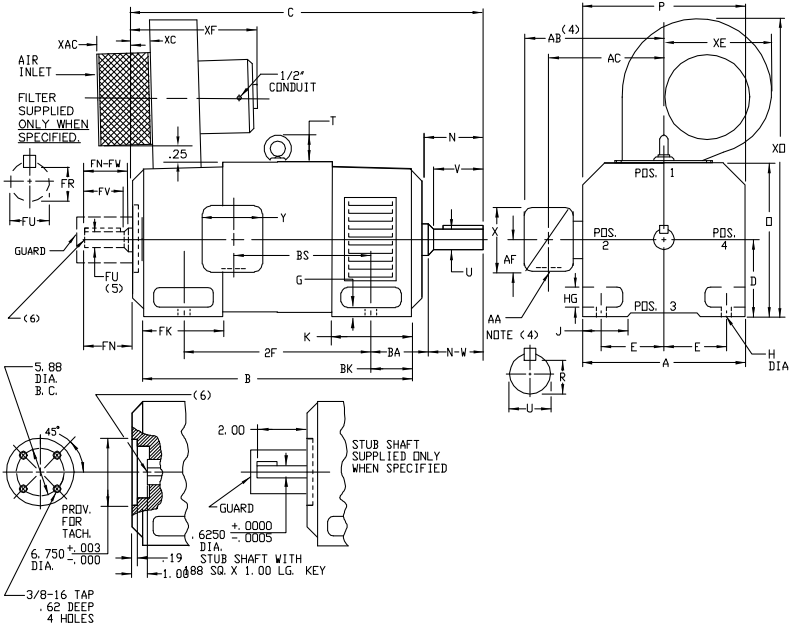
INDUSTRIAL DIRECT CURRENT MOTORS
AND GENERATORS - RPM III

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

COOLING: FORCE VENTILATED
WITH INTEGRAL
BLOWER AND MOTOR

ACCESSORIES: PROVISION FOR
TACHOMETER MOUNTING
ONLY WHEN SPECIFIED

FRAMES SC3210ATZ THRU ULC3214ATZ



DIMENSIONS ARE IN INCHES

FRAME	XAC	XC	XE	XF	XO
SC3210ATZ-ULC3214ATZ	6.75	3.25	8.50	19.25	28.00

FRAME	A	D(1)	E	G	H	HG	J	O	P	T	BA	K	FK	STG.	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	C(7)					DRIVE END SHAFT AND KEY										OPPOSITE DRIVE END SHAFT AND KEY					WT.
		STD.	LG.(8)	STD.	LG.(8)	BS	2F	N	N-W	U(2)	V	R(3)	SO	LGTH.	FN	FN-FW	FU(2)	FV	FR(3)	SO	LGTH.	
SC3210ATZ-ULC3210ATZ	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	5.00	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	5.00	3.25	1120
MC3212ATZ-ULC3212ATZ	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	5.00	3.25	1210
UMC3212ATZ-ULC3212ATZ	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	5.00	3.25	1215
LC3212ATZ-ULC3212ATZ	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	5.00	3.25	1290
ULC3212ATZ-ULC3212ATZ	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	5.00	3.25	1295
CS3214ATZ-ULC3214ATZ	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	5.00	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	5.00	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" AND "FU" VARY-----+.000 --.001
(3) "R" AND "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. 609979-1, "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) "XC" DIMENSION IS NOT APPLICABLE TO "C3214ATZ" FRAMES (BLOWER MOTOR IS CENTERED ON SHAFT C/L).

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.

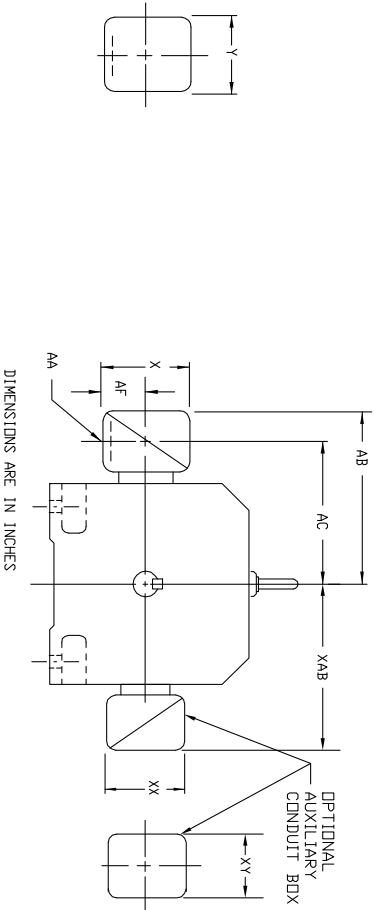
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BALDOR
DIMENSION DRAWING, SC3210ATZ - ULC3214ATZ, DPP, FOOT MTG
SH 1 of 1

616032-001

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						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	74874-2-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	15.88	12.38	4.25	8.44	7.25	702658-1-C	3	16.31	13.06	4.25	8.44	7.25
C3612ATZ	185	3	16.31	13.06	4.25	8.44	7.25	74874-2-R	4	17.75	13.69	5.38	10.56	9.00
C3613ATZ	269	4	17.75	13.69	5.38	10.56	9.00	700308-3-R	5	22.00	15.88	6.50	12.10	14.62
C3613ATZ	500	5	22.00	15.88	6.50	12.10	14.62	702658-1-C	5	22.00	15.88	6.50	12.10	14.62

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	76700-RB	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-RR	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	12.56	3.62	7.88	9.25
C3612ATZ	185	3	16.31	12.56	3.62	7.88	9.25	76700-RB	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-RR	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

CONDUIT BOX DIMENSIONS WITH TERMINAL BOARDS (IEC TYPE BOX)											
STANDARD SIZE											
FRAME SIZE	AMPS	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			
C360	400	20.00	15.28	6.20	14.39	---	14.39	706310-63-B			
	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	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) '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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BALDOR

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

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