



Customer information packet

D5030R-BV

30HP, 1750RPM, DC, 2113ATZ, DPG-FV,

Specifications

Enclosure	DP
Frame	LC2113ATZ
Frame Material	Steel
Output Power	30.000 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	F1
Overall Length	31.25 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.	G6000C B
Layout	616002-001
Eff. date	04-13-2015
CD Diagram	406770-006
Poles	00
Leads	
Proprietary	False
Created date	04-09-2015

Nameplate

000613006HP									
CAT.NO.	D5030R-BV	SPEC NO.		T21T1352					
FR	LC 2113ATZ	HP	30		DUTY		CONT		
ENCL.	DP	RPM	1750/ 2300		S.F.		1.0		
ENCL MOD	FORCE VENT	VOLTS	500		INSUL			F	
MAX SAFE SPEED	4500	AMPS	52.00		AMB.		40		
FIELD DATA		SER.NO.							
WINDING	STR SHUNT	POWER CODE		C					
VOLTS	300	D.E. BRG.		50BC03J30X					
MAX AMPS @ 25 C	3.30	O.D.E. BRG.		45BC02J30X					
HOT AMPS	2.41/ 1.68	MIN. AMB.		0		TYPE		TR	
BRUSH:419904051AB									

INDUSTRIAL DIRECT CURRENT MOTORS AND GENERATORS - RPM III

ENCLOSURE: DRIP-PROOF FULLY-GUARDED,
SPLASHPROOF

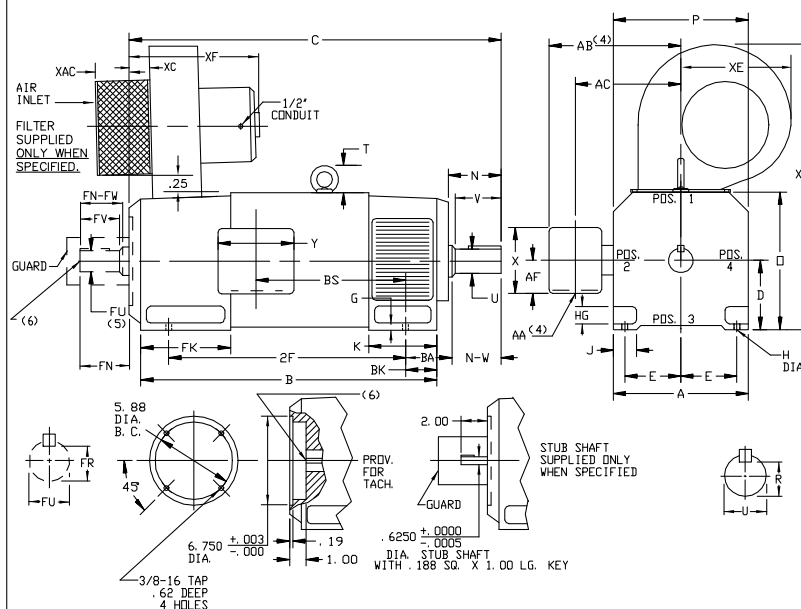
COOLING: FORCE VENTILATED
WITH INTEGRAL
BLOWER AND MOTOR

MOUNTING:FOOT

METHOD OF DRIVE:COUPLED OR BELTED

ACCESSORIES: PROVISION FOR
TACHOMETER MOUNTING
ONLY WHEN SPECIFIED

FRAMES SC2113ATZ THRU LC2115ATZ



DIMENSIONS ARE IN INCHES

FRAME	XAC	XC	XE	XF	XC
SC2113ATZ-LC2115ATZ	7.75	2.25	10.00	16.00	22.75

FRAME	A	D(1)	E	G	H	HG	J	O	P	T	BA	K	FK	BK
SC2113ATZ-LC2115ATZ	10.25	5.25	4.25	.44	.44	1.38	1.75	10.44	10.31	2.08	3.50	5.19	6.81	2.3

FRAME	C(7)	B	BS	2F	DRIVE END SHAFT AND KEY						OPPOSITE DRIVE END SHAFT AND KEY(S)						WT.		
					N	N-W	U(2)	V	R(3)	SQ.	LGTH.	FN	FN-FW	FU(2)	FV	FR(3)		SQ.	LGTH.
SC2113A7Z	28.38	22.50	11.38	18.00	4.00	3.75	1.875	3.50	1.991	.500	2.50	3.50	3.25	1.625	3.00	1.416	.375	2.25	3.34
MC2113A7Z	29.62	23.75	12.62	18.00	4.00	3.75	1.875	3.50	1.991	.500	2.50	3.50	3.25	1.625	3.00	1.416	.375	2.25	3.70
LC2113A7Z	31.25	25.38	14.25	18.00	4.00	3.75	1.875	3.50	1.991	.500	2.50	3.50	3.25	1.625	3.00	1.416	.375	2.25	4.00
SC2115A7Z	32.50	26.62	15.50	22.00	4.00	3.75	1.875	3.50	1.991	.500	2.50	3.50	3.25	1.625	3.00	1.416	.375	2.25	4.25
LC2115A7Z	35.25	28.38	18.25	22.00	4.00	3.75	1.875	3.50	1.991	.500	2.50	3.50	3.25	1.625	3.00	1.416	.375	2.25	4.80

- (1) "D" DIMENSION WILL NOT BE EXCEEDED. SHIMS UP TO .03 INCHES IN THICKNESS ARE USUALLY REQUIRED FOR COUPLED OR GEARED MACHINES.
- (2) "U" AND "FUR" VARY-----, 000 - .001
- (3) "R" AND "FR" VARY-----, 000 - .001
- (4) TERMINAL BOX VARIES WITH H.P. FOR DIMENSIONS "AA", "AB", "AC", "AF", "X" AND "Y". REFER TO BOX D'S. (STD. 690995-1), "X"/P. 609959-2, MILL 609959-3)
- (5) DISCONNECT DRIVE AND SHAFT SUPPLIED WHEN SPECIFIED.
- (6) MOTOR SHAFT TAPPED FOR SCREW-IN STUB SHAFT.
- (7) WHEN THE MOTOR APPLICATION DOES NOT REQUIRE THE USE OF A DRIVE END, ADD ".2S" TO "C"
- (8) TERMINAL BOX CAN BE ROTATED FOR LEAD OUTLET AT TOP, SIDES OR BOTTOM. TERMINAL BOX LOCATED ON OPPOSITE SIDE FROM F-2, W-1, W-4, W-5, W-7, D-C-1. MOUNTING IS SPECIFIED. BOX LOCATED ON TOP WHEN SPECIFIED.
- (9) BLOWER ASSEMBLY CAN BE LOCATED EITHER FRONT OR REAR. EXCEPT BLOWER ASSEMBLY AND TERMINAL BOX CAN NOT BE LOCATED AT THE SAME POSITION. MOTOR MIGHT MAY VARY 15% FOR NON-STANDARD RATINGS AND ACCESSORIES.
- (10) MOUNTING CLAMP DETAIL CLAMPED TO EACH END OF EACH FLANGE.

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

REV. LTR: -	VERSION: 00	TDR: 000000578087
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MTL: -		

BALDOR

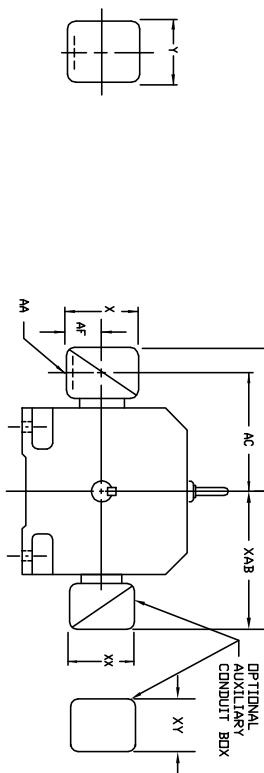
DIMENSION DRAWING,SC2113ATZ - LC2115ATZ,DPP,FOOT MTG

SH 1 of 1

**INDUSTRIAL DIRECT CURRENT MOTORS
AND GENERATORS - RPM III**

TERMINAL BOX DIMENSIONS STANDARD SIZE AND ONE SIZE LARGER
FRAMES C2113ATZ THRU C2815ATZ

DIMENSIONS ARE IN INCHES



STEEL TERMINAL, BOLT DIMENSIONS															
FRAME SIZE	MAX. AMP'S	STANDARD SIZE					PART NUMBER		ONE SIZE LARGER					PART NUMBER	
		AB	AC	AF	X	Y	AK(1)	AB	AC	AF	X	Y			
C21/3A1Z	40	3/4 & 1"	8.97	4.7	1.94	4.38	5.00	705028-1-R	1-1/4 & 1-1/2	10.03	8.03	2.50	5.50	6.12	705029-1-R
C21/3A1Z	96	1-1/4 & 1-1/2	10.03	8.03	2.50	5.50	6.12	705029-1-R	2" & 2-1/2	11.16	8.41	3.19	7.00	7.62	705030-1-R
C21/3A1Z (C)	208	2" & 2-1/2	11.16	8.41	3.19	7.00	7.62	705030-1-R	2" & 2-1/2	11.16	8.41	3.19	7.00	7.62	705030-1-R
C25/4A1Z	40	3/4 & 1"	10.03	8.53	1.94	4.38	5.00	705028-1-R	1-1/4 & 1-1/2	11.09	9.09	2.50	5.50	6.12	705029-1-R
C25/4A1Z	96	1-1/4 & 1-1/2	11.09	9.09	2.50	5.50	6.12	705029-1-R	2" & 2-1/2	12.82	9.47	3.19	7.00	7.62	705030-1-R
C25/4A1Z (C)	208	2" & 2-1/2	12.82	9.47	3.19	7.00	7.62	705030-1-R	2" & 2-1/2	12.82	9.47	3.19	7.00	7.62	705030-1-R
C28/1A1Z	128	2"	14.03	10.53	4.25	8.44	7.25	748747-1-R		15.47	11.82	4.25	8.44	7.25	748747-2-R
C28/1A1Z	185	3"	14.47	11.52	4.25	8.44	7.25	748747-2-R		15.91	11.84	5.38	10.75	8.00	702508-3-R
C28/1A1Z (C)	209	4"	15.91	11.84	5.38	10.56	9.00	702508-3-R	5" (4)	18.72	13.47	7.00	12.75	15.00	702508-1-C

FRAME SIZE	MAX. AMPS	CAST IRON TERMINAL BOX DIMENSIONS										PART									
		STANDARD SIZE					PART					DNE SIZE LARGER					PART				
		AA3/2	AB	AC	AF	X	Y	Z	NUMBER		AA3/2	AB	AC	AF	X	Y	Z	NUMBER			
C21 19A1Z	18	3/4	10.03	8.03	2.50	5.00	5.75	705028-2-S	1*	10.03	8.03	2.50	5.00	5.75	705028-2-T						
C21 19A1Z	40	1"	10.03	8.03	2.50	5.00	5.75	705028-2-T	1-1/2	10.97	8.53	3.00	6.00	7.00	705029-2-R						
C21 19A1Z	96	1-1/2	10.97	8.53	3.00	6.00	7.00	705029-2-S	2"	10.97	8.53	3.00	6.00	7.00	705029-2-S						
C21 19A1Z	208		10.97	8.53	3.00	6.00	7.00	705029-2-S	2-1/2	12.66	8.91	3.62	7.88	9.25	705030-2-R						
C21 19A1Z	18	3/4	11.09	9.09	2.50	5.00	5.75	705028-2-T	1*	11.09	9.09	2.50	5.00	5.75	705028-2-T						
C21 19A1Z	40	1"	11.09	9.09	2.50	5.00	5.75	705028-2-T	1-1/2	12.03	9.59	3.00	6.00	7.00	705029-2-S						
C21 19A1Z	96	1-1/2	12.03	9.59	3.00	6.00	7.00	705029-2-R	2"	12.03	9.59	3.00	6.00	7.00	705029-2-S						
C21 19A1Z	208		12.03	9.59	3.00	6.00	7.00	705029-2-R	2-1/2	13.47	9.97	3.62	7.88	9.25	705030-2-S						
C21 19A1Z	128	2"	12.78	10.34	3.00	6.00	7.00	705030-1	3*	14.72	10.72	3.62	7.88	9.25	767000-R8						
C21 19A1Z	185	3*	14.47	10.72	3.62	7.88	9.25	767000-R8	4*	15.98	11.34	4.12	9.50	10.50	767000-R						
C21 19A1Z	269	4*	15.78	11.57	4.12	9.50	10.50	767000-R	5* (4)	18.59	12.97	4.10	12.75	15.00	76670-S						

CONDUIT BOX DIMENSIONS WITH TERMINAL BOARDS (IEC TYPE BOX)									
		STANDARD SIZE							
FRAME SIZE	AMP'S	AB	AC	AE	X	AA	Y	PART NUMBER	PART NUMBER
C210	100	10.71	8.98	2.72	7.48	--	7.48	706310-56-A	706310-225-R
	200	11.26	9.25	3.35	8.82	--	8.82	706310-56-B	706310-226-R
	100	11.30	9.57	2.72	7.48	--	7.48	706310-56-A	706310-225-R
C250	200	11.85	9.84	3.35	8.82	--	8.82	706310-56-B	706310-226-R
	400	17.48	12.75	6.20	14.39	--	14.39	706310-63-B & 706310-636	706310-63-B & 706310-636
	800	17.48	12.75	6.20	14.39	--	14.39	706310-63-B & 706310-636	706310-63-B & 706310-636
C280	200	12.60	10.99	3.76	8.82	--	8.82	706310-56-B	706310-226-R
	400	18.27	13.54	6.20	14.39	--	14.39	706310-63-B & 706310-636	706310-63-B & 706310-636
	800	18.27	13.54	6.20	14.39	--	14.39	706310-63-B & 706310-636	706310-63-B & 706310-636
	1600	18.27	13.54	7.68	15.35	--	15.35	706310-63-C	706310-63-C

FRAME SIZE						PART NUMBER					
YAB	XY	YX	YX	YX	YX	YAB	XY	YX	YX	YX	YX
C210	7.38	4.25	6.02007-26-A	C210	10.88	8.00	8.00	8.00	705310-3-B		
C250	8.44	4.25	6.02007-26-A	C250	11.88	8.00	8.00	8.00	705310-3-B		
C280	9.12	4.25	6.02007-26-A	C280	12.62	8.00	8.00	8.00	705310-3-B		

- (1) "AA CONDUTIT."
 (2) "STEEL TERMINAL BOX FOR C6219A17Z AND C6218A17Z FRAMES PROVIDED WITH DOUBLE KNOCKOUT."
 (3) "AA PIPE TAP."
 (4) "TERMINAL BOX 76670-5 AND 76670-9 EXTENDS BELOW MOTOR FEED."
 (5) "TERMINAL BOX CAN BE ROTATED FOR LEAD OUTLET AT TOP. SIZES DR BOTTOM OF TERMINAL BOX LOCATED ON OPPOSITE SIDE WHEN F-2, -W1, -W4, -W5, -W7, OR -C-1 MOUNTING IS SPECIFIED. BOX LOCATED IN TOP WHEN -X/P- TERMINAL BOX DIMENSIONS SEE 609955-2 FOR MILL TYPE TERMINAL BOX DIMENSIONS SEE 609955-3."

609959-001

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

REV. DESC: ADD 706310-63G C/BOX TO C250 AND C280 FRAMES		
REV. LTR: A	VERSION: 01	TDR: 000000816512
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MTL: -		BY: RGGWT

BALDOR

DIMENSION SHEET

SH 1 of 1

406770-006			406770-006		
CONNECTION DIAGRAM D-C MOTOR - STRAIGHT SHUNT W1 <NOTE 6> H1 H2 SHUNT FIELD INTER-COIL ARMATURE F1 A1 AX2 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 ROTATION FACING COMMUTATOR END A1 A2 F1 F2 - + - + CW ROTATION 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 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				
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