



Customer information packet

CD2015R-BV

15HP, 1750RPM, DC, 2113ATCZ, DPG-FV,

Specifications

Enclosure	DP
Frame	SC2113ATCZ
Frame Material	Steel
Output Power	15.000 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	SC
Heater Indicator	No Heater
Lifting Lugs	Standard Lifting Lugs
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	28.00 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.	G6207C B
Layout	616002-023
Eff. date	04-13-2015
CD Diagram	406770-006
Poles	00
Leads	
Proprietary	False
Created date	04-09-2015

Nameplate

000613006HP									
CAT.NO.	CD2015R-BV	SPEC NO.		T21T1384					
FR	SC 2113ATCZ	HP	15		DUTY		CONT		
ENCL.	DP	RPM	1750/ 2300		S.F.		1.0		
ENCL MOD	FORCE VENT	VOLTS		240		INSUL		F	
MAX SAFE SPEED	4500	AMPS	56.00		AMB.		40		
FIELD DATA		SER.NO.							
WINDING	STR SHUNT		POWER CODE		C				
VOLTS	150		D.E. BRG.		50BC03J30X				
MAX AMPS @ 25 C	4.73		O.D.E. BRG.		45BC02J30X				
HOT AMPS	3.41/ 2.24		MIN. AMB.		0		TYPE		TR
BRUSH:419904051AD									

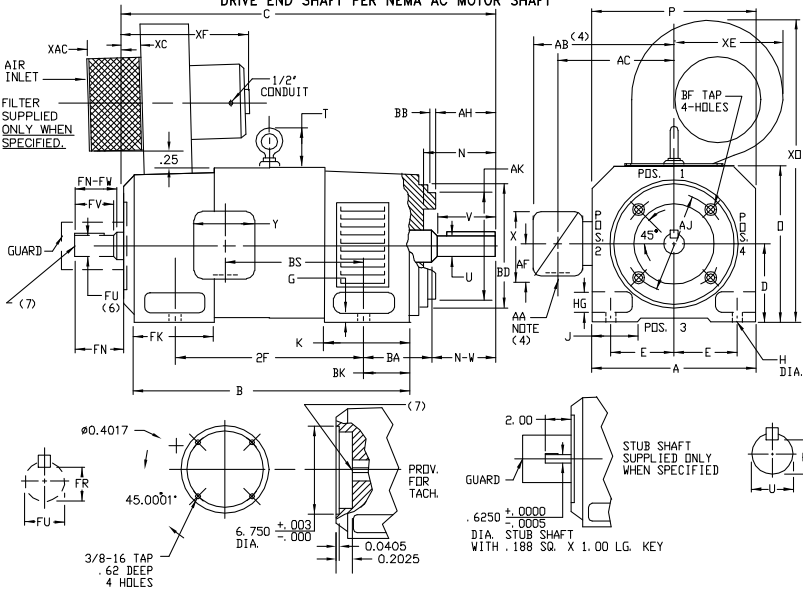
616002-023

INDUSTRIAL DIRECT CURRENT MOTORS
AND GENERATORS - RPM III

ENCLOSURE: DRIP-PROOF FULLY-GUARDED,
SPLASHPROOF
MOUNTING: FOOT, NEMA "C" FACE
METHOD OF DRIVE: COUPLED OR BELTED

COOLING: FORCE VENTILATED
WITH INTEGRAL
BLOWER AND MOTOR
ACCESSORIES: PROVISIONS FOR
TACHOMETER MOUNTING
ONLY WHEN SPECIFIED

FRAMES SC2113ATCZ THRU LC2115ATCZ
DRIVE END SHAFT PER NEMA AC MOTOR SHAFT



DIMENSIONS ARE IN INCHES																	
FRAME	A	D(1)	E	G	H	HG	J	O	P	T	BA	K	FK	BK			
SC2113ATCZ-LC2115ATCZ	10.25	5.25	4.25	.44	.44	1.38	1.75	10.44	10.31	2.08	3.50	5.19	6.81	2.38			

DIMENSIONS ARE IN INCHES																	
FRAME	C(8)	B	BS	2F	N	N-W	U(2)	AH	V	R(3)	SQ.	LGTH.	FN	FN-FW	FU(2)	FV	FR(3)
SC2113ATCZ	28.00	22.50	11.38	18.00	3.62	3.38	1.3750	3.12	3.12	1.201	.312	2.38	3.50	3.25	1.625	3.00	1.416
MC2113ATCZ	29.25	23.75	12.62	18.00	3.62	3.38	1.3750	3.12	3.12	1.201	.312	2.38	3.50	3.25	1.625	3.00	1.416
LC2113ATCZ	30.88	25.38	14.25	18.00	3.62	3.38	1.3750	3.12	3.12	1.201	.312	2.38	3.50	3.25	1.625	3.00	1.416
MC2115ATCZ	32.12	26.62	15.50	22.00	3.62	3.38	1.3750	3.12	3.12	1.201	.312	2.38	3.50	3.25	1.625	3.00	1.416
LC2115ATCZ	34.88	29.38	18.25	22.00	3.62	3.38	1.3750	3.12	3.12	1.201	.312	2.38	3.50	3.25	1.625	3.00	1.416

FRAME	BB	BD	BF	BF TAP DEPTH	AJ	AK(5)
SC2113ATCZ-LC2115ATCZ	.25	8.75	1/2-13	.75	7.25	8.500

FRAME	XAC	XC	XE	XF	XO
SC2113ATCZ-LC2115ATCZ	7.75	2.25	10.00	16.00	22.75

- (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 "FU" VARY-----+.000 - .0005 UP TO 1.625 DIA-----+.000 - .001 1.625 DIA AND LARGER
(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. 609959-1), "X/P" 609959-2, "MILL 609959-3"
(5) "AK" VARIES +.000, -.003---FACE RUNDOUT AND ECCENTRICITY .004 MAX T. I. R.
(6) OPPOSITE DRIVE END SHAFT SUPPLIED ONLY WHEN SPECIFIED.
(7) MOTOR SHAFT TAPPED FOR SCREW-IN STUB SHAFT.
(8) WHEN THE MOTOR APPLICATION DOES NOT REQUIRE THE USE OF DPP, DRIVE END, ADD .25 TO "C" DIM. FOR BRACKET COVER.
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.

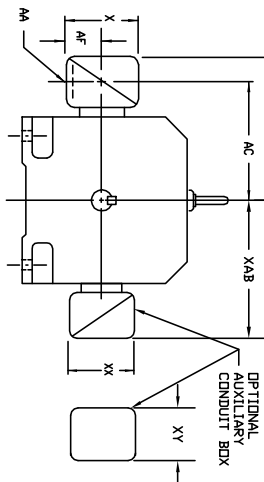
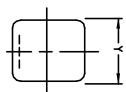
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REV. LTR: -	FILE: \RGG\00015\950	REVISED: 08:46:01 01/28/2011
MTL: -	BY: CONNAS	

BALDOR
DIMENSION DRAWING, SC2113ATCZ - LC2115ATCZ, DPP, FOOT MTG
SH 1 of 1

616002-023

609959-001

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

FRAME SIZE	MAX. AMPS	STANDARD SIZE						STEEL TERMINAL BOX DIMENSIONS						ONE SIZE LARGER						PART NUMBER
		AK(1)	AB	AC	AF	X	Y	AK(1)	AB	AC	AF	X	Y	AK(1)	AB	AC	AF	X	Y	
C2113ATZ	40	3/4 & 1"	8.97	7.47	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					
C2115ATZ	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					
(2)	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					
C2513ATZ	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					
C2514ATZ	96	1-1/4 & 1-1/2	11.09	9.09	2.50	5.50	6.12	705029-1-R	2" & 2-1/2	12.22	9.47	3.19	7.00	7.62	705030-1-R					
C2515ATZ	208	2" & 2-1/2	12.22	9.47	3.19	7.00	7.62	705030-1-R	2" & 2-1/2	12.22	9.47	3.19	7.00	7.62	705030-1-R					
(2)	128	2"	14.03	10.53	4.25	8.44	7.25	74874-R	3"	14.47	11.22	4.25	8.44	7.25	74874-R					
C2813ATZ	195	3"	14.47	11.22	4.25	8.44	7.25	74874-R	3"	15.91	11.84	5.38	10.56	9.00	706308-3-R					
C2815ATZ	269	4"	15.91	11.84	5.38	10.56	9.00	706308-3-R	5" (4)	18.72	13.47	7.00	12.75	15.00	706589-1-C					

FRAME SIZE	MAX. AMPS	STANDARD SIZE						CAST IRON TERMINAL BOX DIMENSIONS						ONE SIZE LARGER						PART NUMBER
		AK(3)	AB	AC	AF	X	Y	AK(3)	AB	AC	AF	X	Y	AK(3)	AB	AC	AF	X	Y	
C2113ATZ	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					
C2115ATZ	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					
C2115ATZ	96	1-1/2	10.97	8.53	3.00	6.00	7.00	705029-2-R	2"	12.66	8.91	3.62	7.88	9.25	705030-2-R					
(2)	208	2"	12.66	8.91	3.62	7.88	9.25	705030-2-R	2-1/2	12.66	8.91	3.62	7.88	9.25	705030-2-R					
C2513ATZ	18	3/4	11.09	9.09	2.50	5.00	5.75	705028-2-S	1"	11.09	9.09	2.50	5.00	5.75	705028-2-T					
C2514ATZ	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-R					
C2515ATZ	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-R					
C2515ATZ	208	2"	12.03	9.59	3.00	6.00	7.00	705029-2-S	2-1/2	13.72	9.97	3.62	7.88	9.25	705030-2-R					
C2813ATZ	188	2"	12.78	10.34	3.00	6.00	7.00	75460-T	3"	14.47	10.72	3.62	7.88	9.25	76708-R					
C2815ATZ	195	3"	14.47	10.72	3.62	7.88	9.25	76708-R	4"	15.78	11.59	4.12	9.50	10.50	76708-R					
C2815ATZ	269	4"	15.78	11.59	4.12	9.50	10.50	76708-R	5" (4)	18.59	13.34	7.00	12.75	15.00	76870-S					

CONDUIT BOX DIMENSIONS WITH TERMINAL BOARDS (IEC TYPE BOX)

FRAME SIZE	AMPS	STANDARD SIZE						ONE SIZE LARGER						PART NUMBER
		AB	AC	AF	X	AA	Y	AB	AC	AF	X	Y	AA	
C210	100	10.71	8.98	2.72	7.48	---	7.48	10.71	8.98	2.72	7.48	---	7.48	706310-25-R
	200	11.66	9.23	3.33	8.82	---	8.82	11.66	9.23	3.33	8.82	---	8.82	706310-25-B
	100	11.30	9.57	2.72	7.48	---	7.48	11.30	9.57	2.72	7.48	---	7.48	706310-25-A
C250	200	11.85	9.84	3.35	8.82	---	8.82	11.85	9.84	3.35	8.82	---	8.82	706310-25-R
	400	17.48	12.75	6.20	14.39	---	14.39	17.48	12.75	6.20	14.39	---	14.39	706310-63-B & 706310-63G
	800	17.48	12.75	6.20	14.39	---	14.39	17.48	12.75	6.20	14.39	---	14.39	706310-63-B & 706310-63G
	200	12.60	10.59	3.76	8.82	---	8.82	12.60	10.59	3.76	8.82	---	8.82	706310-25-B
	400	18.27	13.54	6.20	14.39	---	14.39	18.27	13.54	6.20	14.39	---	14.39	706310-63-B & 706310-63G
	800	18.27	13.54	6.20	14.39	---	14.39	18.27	13.54	6.20	14.39	---	14.39	706310-63-B & 706310-63G
C280	1600	18.27	13.54	7.68	15.35	---	15.35	18.27	13.54	7.68	15.35	---	15.35	706310-63-C

OPTIONAL AUXILIARY CONDUIT BOX DIMENSIONS (MAXIMUM)										
FRAME SIZE	YAB	XY	XY	PART NUMBER	FRAME SIZE	YAB	XY	XY	PART NUMBER	
C210	7.38	4.25	4.25	602007-26-A	C210	10.88	8.00	8.00	706310-3-B	
C250	8.44	4.25	4.25	602007-26-A	C250	11.88	8.00	8.00	706310-3-B	
C280	9.12	4.25	4.25	602007-26-A	C280	12.62	8.00	8.00	706310-3-B	

(1) 1/4" CONDUIT.
(2) RACEWAYS PROVIDED WITH DOUBLE KNUCKLE.
(3) 1/4" PIPE LAP.

(4) TERMINAL BOX 76870-S AND 76870-98 EXTENDS BELOW MOTOR FEET.
TERMINAL BOX 76870-S AND 76870-98 EXTENDS BELOW MOTOR FEET.
TERMINAL BOX 76870-S AND 76870-98 EXTENDS BELOW MOTOR FEET.
DR - C-1 MOUNTING IS SPECIFIED. BOX LOCATED ON TOP WHEN SPECIFIED.
FOR "X"/"Y" TERMINAL BOX DIMENSIONS SEE 609959-2.
FOR MILL TYPE TERMINAL BOX DIMENSIONS SEE 609959-3.

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

FILE: \RGG\00021\153

REVISED: 03: 09: 09 09/06/2013

MTL: -

BY: RGGWT

BALDOR

DIMENSION SHEET

SH 1 of 1

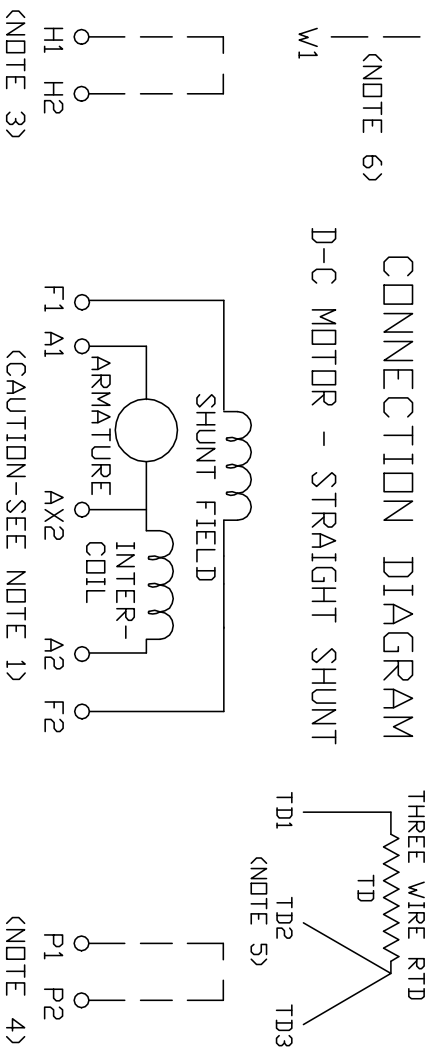
609959-001

CONNECTION DIAGRAM

(NOTE 6)

W1

D-C MOTOR - STRAIGHT SHUNT



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 FDR MOTOR GROUNDING. GROUND LEAD, WHEN PROVIDED, WILL BE GREEN.

CUSTOMER _____

CUSTOMER RELIANCE
ORDER NO. _____ S.D. NO. _____

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