



Customer information packet

D2040R-BV

40HP, 1750RPM, DC, 2115ATZ, DPG-FV,

Specifications

Enclosure	DP
Frame	LC2115ATZ
Frame Material	Steel
Output Power	40.000 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	35.25 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.	G8381A B
Layout	616002-001
Eff. date	04-13-2015
CD Diagram	406770-006
Poles	00
Leads	
Proprietary	False
Created date	04-09-2015

Nameplate

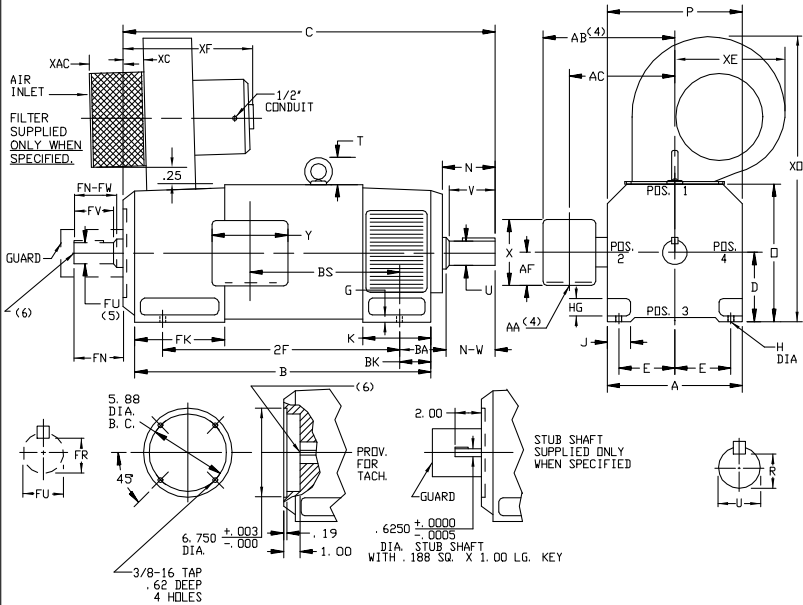
000613006HP

CAT.NO.	D2040R-BV	SPEC NO.	T21T1380		
FR	LC 2115ATZ	HP	40	DUTY	CONT
ENCL.	DP	RPM	1750/ 2100	S.F.	1.0
ENCL MOD	FORCE VENT	VOLTS	240	INSUL	F
MAX SAFE SPEED	4500	AMPS	146.00	AMB.	40
	FIELD DATA	SER.NO.			
WINDING	STR. SHUNT	POWER CODE	C		
VOLTS	150	D.E. BRG.	50BC03J30X		
MAX AMPS @ 25 C	5.63	O.D.E. BRG.	45BC02J30X		
HOT AMPS	4.44/ 3.47	MIN. AMB.	0	TYPE	TR
	BRUSH:419904051AD				

616002-001

INDUSTRIAL DIRECT CURRENT MOTORS
AND GENERATORS - RPM III

ENCLOSURE: DRIP-PROOF FULLY-GUARDED,
SPLASHPROOF
MOUNTING: FOOT
METHOD OF DRIVE: COUPLED OR BELTED
COOLING: FORCE VENTILATED
WITH INTEGRAL
BLOWER AND MOTOR
ACCESSORIES: PROVISION FOR
TACHOMETER MOUNTING
ONLY WHEN SPECIFIED
FRAMES SC2113ATZ THRU LC2115ATZ



DIMENSIONS ARE IN INCHES

FRAME	XAC	XC	XE	XF	XO
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	2.38

FRAME	C(7)	B	BS	2F	N	N-W	U(2)	V	R(3)	SO.	LGTH.	FN	FN-FW	FU(2)	FV	FR(3)	SO.	LGTH.	LBS.
SC2113ATZ	28.38	22.50	11.38	18.00	4.00	3.75	1.875	3.50	1.591	.500	2.50	3.50	3.25	1.625	3.00	1.416	.375	2.25	345
MC2113ATZ	29.62	23.75	12.62	18.00	4.00	3.75	1.875	3.50	1.591	.500	2.50	3.50	3.25	1.625	3.00	1.416	.375	2.25	370
LC2113ATZ	31.25	25.38	14.25	18.00	4.00	3.75	1.875	3.50	1.591	.500	2.50	3.50	3.25	1.625	3.00	1.416	.375	2.25	400
MC2115ATZ	32.50	26.62	15.50	22.00	4.00	3.75	1.875	3.50	1.591	.500	2.50	3.50	3.25	1.625	3.00	1.416	.375	2.25	425
LC2115ATZ	35.25	29.38	18.25	22.00	4.00	3.75	1.875	3.50	1.591	.500	2.50	3.50	3.25	1.625	3.00	1.416	.375	2.25	480

- (1) "B" 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 -.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. 609959-1, "X/P" 609959-2, MILL 609959-3)
(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 DPG, 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.

REV. DESC: LOADED TO BUS	VERSION: 00	TDR: 000000578087
REV. LTR: -	REVISED: 08:22:49 01/28/2011	BY: CONNAS
MTL: -		

BALDOR
DIMENSION DRAWING, SC2113ATZ - LC2115ATZ, DPP, FOOT MTG
SH 1 of 1

616002-001

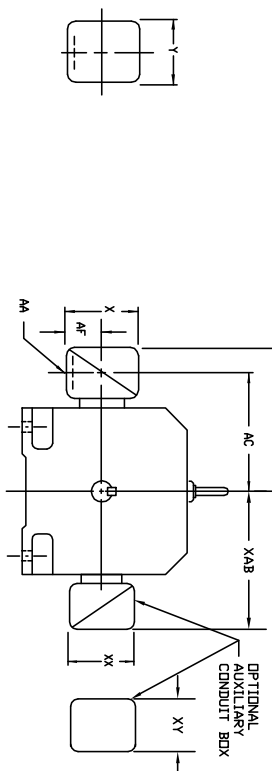
609959-001

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

TERMINAL BOX DIMENSIONS

**STANDARD SIZE AND ONE SIZE LARGER
FRAMES C2113A1T THRU C2815A1T**

DIMENSIONS ARE IN INCHES



FRAME SIZE	MAX AREA (AK1)	STEEL, TYPICAL, BOX DIMENSIONS										PART														
		STANDARD SIZE					PART					DME SIZE, LARGER					NUMBER									
AB	AC	AF	X	Y	NUMBER	AB	AC	AF	X	Y	NUMBER	AB	AC	AF	X	Y	NUMBER	AB	AC	AF	X	Y				
211SA1Z	4/3/4 & 1"	8.97	7.07	4.94	5.38	5.0	705028-1-R	1-1/4	& 1-1/2	10.03	8.03	5.50	6.12	705029-1-R	11.16	8.43	5.19	7.00	7.62	705030-1-R	11.16	8.43	5.19	7.00	7.62	705030-1-R
221SA1Z	56 -1-1/4 & 1-1/2	10.03	8.03	5.50	6.12	705029-1-R	2"	& 2-1/2	11.16	8.43	5.19	7.00	7.62	705030-1-R	11.16	8.43	5.19	7.00	7.62	705030-1-R	11.16	8.43	5.19	7.00	7.62	705030-1-R
231SA1Z	208 2" & 2-1/2	11.16	8.43	5.19	7.00	705030-1-R	2"	& 2-1/2	11.16	8.43	5.19	7.00	7.62	705030-1-R	11.16	8.43	5.19	7.00	7.62	705030-1-R	11.16	8.43	5.19	7.00	7.62	705030-1-R
241SA1Z	40 3/4 & 1"	10.03	8.53	1.94	4.38	5.0	705028-1-R	1-1/4	& 1-1/2	11.09	9.09	5.50	6.12	705030-1-R	12.82	9.47	3.19	7.00	7.62	705030-1-R	12.82	9.47	3.19	7.00	7.62	705030-1-R
251SA1Z	96 -1-1/4 & 1-1/2	11.09	9.09	5.50	6.12	705029-1-R	2"	& 2-1/2	12.82	9.47	3.19	7.00	7.62	705030-1-R	12.82	9.47	3.19	7.00	7.62	705030-1-R	12.82	9.47	3.19	7.00	7.62	705030-1-R
261SA1Z	208 2" & 2-1/2	12.82	9.47	3.19	7.00	705030-1-R	2"	& 2-1/2	12.82	9.47	3.19	7.00	7.62	705030-1-R	12.82	9.47	3.19	7.00	7.62	705030-1-R	12.82	9.47	3.19	7.00	7.62	705030-1-R
271SA1Z	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	14.47	11.22	4.25	8.44	7.25	74874-R	14.47	11.22	4.25	8.44	7.25	74874-R
281SA1Z	185 3"	14.47	11.22	4.25	8.44	7.25	74874-R	24-R	15.91	11.84	5.38	10.56	9.00	700308-1-C	15.91	11.84	5.38	10.56	9.00	700308-1-C	15.91	11.84	5.38	10.56	9.00	700308-1-C
291SA1Z	269 4"	15.91	11.84	5.38	10.56	9.00	700308-3-R	5" (4)	18.72	13.47	7.00	12.75	11.50	702658-1-C	18.72	13.47	7.00	12.75	11.50	702658-1-C	18.72	13.47	7.00	12.75	11.50	702658-1-C

CAST IRON TERMINAL BOX DIMENSIONS															
FRAME SIZE	MAX AMPS	STANDARD SIZE						DME SIZE LARGER							
		AA(3)	AB	AC	AF	X	Y	AA(3)	AB	AC	AF	X	Y		
C2113A1Z	18	3/4	10.03	8.03	8.50	5.00	5.75	705028-2-S	1"	10.03	8.03	8.50	5.00	5.75	705028-2-T
C2113A1Z	40	1"	10.03	8.03	8.50	5.00	5.75	705028-2-T	1 1/2	10.97	8.93	9.30	6.00	7.00	705029-2-S
C2113A1Z	96	1 1/2	10.97	8.93	9.30	6.00	7.00	705029-2-R	2"	10.97	8.93	9.30	6.00	7.00	705029-2-R
C2113A1Z	208	2"	10.97	8.93	9.30	6.00	7.00	705029-2-S	2 1/2	12.66	8.93	9.30	6.00	7.00	705030-2-R
C2113A1Z	18	3/4	11.09	9.09	9.50	5.00	5.75	705028-2-T	1"	11.09	9.09	9.50	5.00	5.75	705028-2-T
C2113A1Z	40	1"	11.09	9.09	9.50	5.00	5.75	705028-2-T	1 1/2	12.03	9.09	9.50	6.00	7.00	705029-2-R
C2113A1Z	96	1 1/2	12.03	9.59	9.30	6.00	7.00	705029-2-R	2"	12.03	9.59	9.30	6.00	7.00	705029-2-S
C2113A1Z	208	2"	12.03	9.59	9.30	6.00	7.00	705029-2-S	2 1/2	13.72	9.59	9.30	6.00	7.00	705030-2-R
C2812A1Z	128	2"	12.78	10.34	9.30	6.00	7.00	704601-R	3"	14.47	11.39	9.30	6.00	7.00	704601-R
C2812A1Z	185	3"	14.47	10.72	9.30	6.00	7.00	705029-2-S	3 1/2	15.78	11.94	9.30	6.00	7.00	705029-2-S
C2813A1Z	269	4"	15.78	11.59	9.30	6.00	7.00	706708-R	5"	18.59	13.59	9.30	6.00	7.00	706708-R

CONDUIT BOX DIMENSIONS WITH TERMINAL BOARDS (IEC TYPE BOX)									
STANDARD SIZE									
FRAME SIZE	AMP'S	A3	A4	A5	X	AA	Y	PART NUMBER	PART NUMBER
C210	100	10.71	8.98	2.72	7.48	--	7.48	706310-56-A	706310-626-R
	200	11.26	9.25	3.35	8.82	--	8.82	706310-56-B	706310-626-R
	100	11.30	9.57	2.72	7.48	--	7.48	706310-56-A	706310-626-R
	200	11.85	9.84	3.35	8.82	--	8.82	706310-56-B	706310-626-R
	400	17.48	12.75	6.20	14.39	--	14.39	706310-63-B & 706310-636	706310-63-B & 706310-636
C250	800	17.48	12.75	6.20	14.39	--	14.39	706310-63-B & 706310-636	706310-63-B & 706310-636
	200	12.60	10.39	3.76	8.82	--	8.82	706310-56-B	706310-626-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	6.20	14.39	--	15.35	706310-63-C	706310-63-C

OPTIMAL AUXILIARY CONJUGATE BOX DIMENSIONS (MAXIMUM)							
FRAME SIZE	XAB	XY	PART NUMBER	FRAME SIZE	XAB	XY	PART NUMBER
C210	7.38	4.25	602007-2E-A	C210	10.88	8.00	706310-3-B
C230	8.44	4.25	602007-2E-A	C230	11.88	8.00	706310-3-B
C280	9.12	4.25	602007-2E-A	C280	12.62	8.00	706310-3-B

- (1) STEEL CONDUIT.
(2) STEEL TERMINAL BOX FOR C2113A1Z AND C2512A1Z.
(3) FRAMES PROVIDED WITH DOUBLE KNUCKOUT.
(4) 1/2" AM PIPE TAB.
(5) TERMINAL BOX 7680/0-5 AND 76870-9R EXTENSIONS BELOW MOTOR FEET.
(6) TERMINAL BOX CAN BE ROTATED FOR LEAD OUTLET AT TOP, SIDES OR BOTTOM.
(7) TERMINAL BOX LOCATED ON OPPOSITE SIDE WHEN F-2, W-1, W-4, W-5, W-7, DR -C-1, MOUNTING IS SPECIFIED. BOX LOCATED ON TOP WHEN SPECIFIED.
(8) W-7/TERMINAL BOX DIMENSIONS SEE 609593-2.
(9) FOR MILL TYPE TERMINAL BOX DIMENSIONS SEE 609593-3.

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
FILE: \RGG\00021\153		REVISED: 03:09:09 09/06/2013
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 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		
REV. LTR: -	VERSION: 00	TDR: 000000781086	D-C MOTOR CONNECTION DIAGRAM, STRAIGHT SHUNT	
FILE: \RSN\00026\515		REVISED: 02: 41:08 02/01/2013	SH 1 of 1	
MTL: -		BY: MGHPC		