



Customer information packet

D2015R-BV

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

Specifications

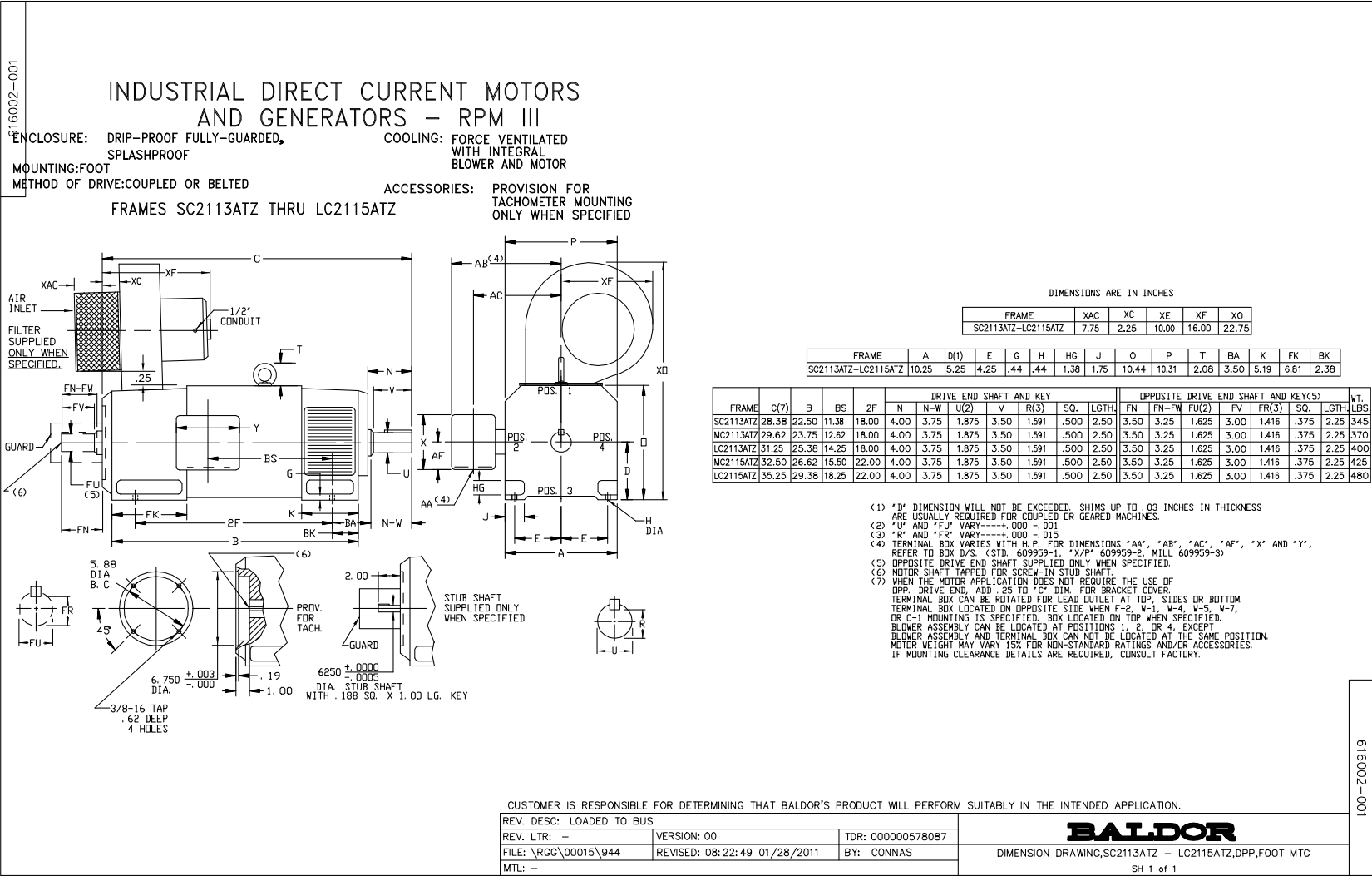
Enclosure	DP
Frame	SC2113ATZ
Frame Material	Steel
Output Power	15.000 HP
Agency Approvals	CCSA US
Ambient Temperature	40 °C
Bearing Grease Type	Polyrex EM (-20F +300F)
Drip Cover	No Drip Cover
Feedback Device	NO FEEDBACK
Field Winding Type	STR SHUNT
Frame Prefix	SC
Heater Indicator	No Heater
Lifting Lugs	Standard Lifting Lugs
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	28.38 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	616002-001
Eff. date	04-13-2015
CD Diagram	406770-006
Poles	00
Leads	
Proprietary	False
Created date	04-09-2015

Nameplate

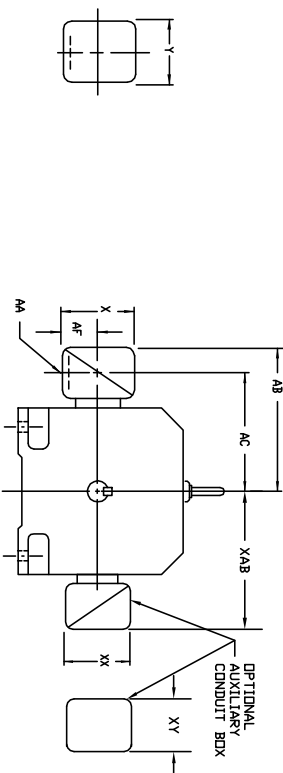
000613006HP									
CAT.NO.	D2015R-BV	SPEC NO.		T21T1359					
FR	SC 2113ATZ	HP	15		DUTY		CONT		
ENCL.	DP	RPM	1750/ 2300		S.F.		1.0		
ENCL MOD	FORCE VENT	VOLTS		240		INSUL		F	
MAX SAFE SPEED	4500	AMPS	56.00		AMB.		40		
FIELD DATA		SER.NO.							
WINDING	STR SHUNT		POWER CODE		D				
VOLTS	150		D.E. BRG.		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									



609959-001

INDUSTRIAL DIRECT CURRENT MOTORS
AND GENERATORS - RPM III
STANDARD SIZE AND ONE SIZE LARGER
TERMINAL BOX DIMENSIONS
FRAMES C2113A17 THRU C2815A17

DIMENSIONS ARE IN INCHES



FRAME SIZE	MAX SPRS	STEEL TERMINAL BOX DIMENSIONS										PART									
		STANDARD SIZE					PART					DME SIZE LARGER					NUMBER				
		AK(1)	AB	AC	AF	X	Y	NUMBER	AK(1)	AB	AC	AF	X	Y	NUMBER	AK(1)	AB	AC	AF	X	Y
C21-3A1Z	4	3/4 & 1"	8.97	7.47	1.94	4.38	5.0	705028-1-R	1-1/4 & 1-1/2	10.03	8.03	2.50	5.30	6.12	705029-1-R						
C21-3A1Z	96	1-1/4 & 1-1/2	10.03	8.03	2.50	5.30	6.12	705029-1-R	2" & 2-1/2	11.16	8.43	3.19	7.00	7.62	705030-1-R						
C21-3A1Z	208	2" & 2-1/2	11.16	8.43	3.19	7.00	7.62	705030-1-R	2" & 2-1/2	11.16	8.43	3.19	7.00	7.62	705030-1-R						
C21-3A1Z	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	2.50	5.30	6.12	705030-1-R						
C21-3A1Z	96	1-1/4 & 1-1/2	11.09	9.09	2.50	5.30	6.12	705030-1-R	2" & 2-1/2	12.82	9.47	3.19	7.00	7.62	705030-1-R						
C21-3A1Z	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						
C28-3A1Z	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						
C28-3A1Z	185	3"	14.47	11.22	4.25	8.44	7.25	74874-R	3"	15.91	11.84	5.38	9.15	8.00	700308-1-C						
C28-3A1Z	269	4"	15.91	11.84	5.38	9.15	8.00	700308-1-C	5"	18.72	13.47	7.00	12.75	11.50	702658-1-C						

CAST IRON TERMINAL BOX DIMENSIONS															
FRAME SIZE	STANDARD SIZE						DIN SIZE LARGER								
	MAX AMPS	AA(3)	AB	AC	AF	NUMBER	AA(3)	AB	AC	AF	NUMBER	PART			
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	9.59	9.30	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	9.57	9.30	6.00	7.00	705030-2-R
C2113A1Z	128	2"	12.78	10.34	9.30	6.00	7.00	705030-2-T	3"	14.47	11.39	9.30	6.00	7.00	705030-2-R
C2113A1Z	185	3"	14.47	10.72	9.30	6.00	7.00	705030-2-T	3 1/2	15.78	11.94	9.30	6.00	7.00	705030-2-R
C2113A1Z	269	4"	15.78	11.56	9.30	6.00	7.00	705030-2-T	5"	18.59	13.59	9.30	6.00	7.00	705030-2-R

CONDUIT BOX DIMENSIONS WITH TERMINAL BOARDS (IEC TYPE BOX)									
STANDARD SIZE									
FRAME SIZE	AMP'S	AB	AC	AF	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
C210	7.38	4.25	602007-2E-A	C210	10.88	8.00
C230	8.44	4.25	602007-2E-A	C230	11.88	8.00
C280	9.12	4.25	602007-2E-A	C280	12.62	8.00
						706310-3-B
						706310-3-B

- (1) STEEL CONDUIT.
(2) STEEL TERMINAL BOX FOR C2113A17Z AND C2512A1Z.
(3) FRAMES PROVIDED WITH DOUBLE KNUCKOUT.
(4) "AM" PIPE TAP.
(5) TERMINAL BOX 76870-5 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,
OR 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

CONNECTION DIAGRAM

406770-006

— (NOTE 6)
W1

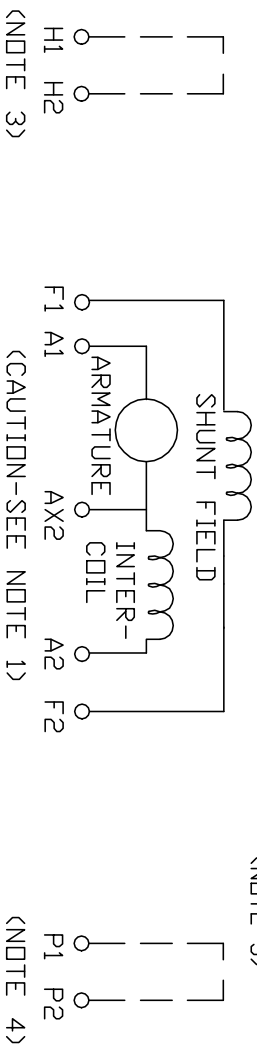
D-C MOTOR - STRAIGHT SHUNT

THREE WIRE RTD

TD

TD1	TD2	TD3
(NOTE 5)		

W



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 FOR 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