

ABB BALDOR RELIANCE III

Customer information packet

D5020R-BV

20HP, 1750RPM, DC, 2113ATZ, DPG-FV,

Specifications

Enclosure	DP
Frame	SC2113ATZ
Frame Material	Exposed Laminations
Output Power	20.000 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	28.63 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.	G6006D 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.	D5020R-BV	SPEC NO.		T21T1350					
FR	SC 2113ATZ	HP	20		DUTY		CONT		
ENCL.	DP	RPM	1750/ 2300			S.F.	1.0		
ENCL MOD	FORCE VENT	VOLTS		500		INSUL		F	
MAX SAFE SPEED	4500	AMPS		37.00		AMB.		40	
FIELD DATA		SER.NO.							
WINDING	STR SHUNT	POWER CODE		C					
VOLTS	300	D.E. BRG.		50BC03J30X					
MAX AMPS @ 25 C	3.04	O.D.E. BRG.		45BC02J30X					
HOT AMPS	2.17/ 1.45	MIN. AMB.		0		TYPE		TR	
BRUSH:419904051AB									

Parts List

Part number	Description	Quantity
SA297135	SA T21T1350	1.000 ea
AA016164	AA T21T1350	1.000 ea
000613006HP	NAMEPLATE - RPM III D-C MOTOR W/CSA LOGO	1.000 ea
000692000FP	NP, WARNING LIFT INSTRUCTIONS	1.000 ea
000692000FS	WARNING LABEL	1.000 ea
033775004EA	DRSCR #6-1/4 304 S.S.	8.000 ea
406770006	C/D TAG STRAIGHT SHUNT	1.000 ea
036000012HB	HHCS M6X12MM LONG PLATED	4.000 ea
036000020KB	MHHCS M10-1.5X20MM PLTD.	4.000 ea
036501008AB	KPNUT M6-1.0 ZINCPLTED	8.000 ea
036610010AB	MHSLW M10 PLATED	4.000 ea
419904051AB	BRUSH EXTRUDER DUTY C	4.000 ea
419905003A	FLAT WASHER ROCKER RPM III RGG	4.000 ea
419905008A	HARDWARE	8.000 ea
706364051AA	BRHLD ADD HARDWARE	4.000 ea
706372001B	ROCKR METRIC	1.000 ea
004824015A	GREASE POLYREX EM	0.100 lb
034693001AB	PPLG - G508- use 034692001AB	1.000 ea
034693001AB	PPLG - G508- use 034692001AB	1.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
035000001BB	GREASE FTG,GRS.IN	1.000 ea
036000055JB	HHCS,DE CAP	2.000 ea
036000060KB	HHCS,DE CAP	3.000 ea
036500010AB	METRIC NUT M10-1.5PLTD400	4.000 ea
036500010AB	METRIC NUT M10-1.5PLTD400	4.000 ea
406055001B	GRFTG	1.000 ea
400638001H	SPRING WASHER (Customer number 43699)	1.000 ea
418150003A	GREASE FITTING CAP	2.000 ea
609830005M	TBOLT METRIC RP609830-	4.000 ea
801924102A	BRKT,ODE,C210	1.000 ea
801925102A	BRKT,DE,C210	1.000 ea

000613006NT	NAME PLATE IEC	1.000 ea
032018004CK	HHCS 3/8-16X1/2L PLATED	4.000 ea
032018006CK	HHCS 3/8-16X3/4L PLATED 411409	4.000 ea
034017014AB	LCKW 3/8 STD. PLATED	4.000 ea
036000012HB	HHCS M6X12MM LONG PLATED	2.000 ea
036000012JB	M8-1.25 X 12MM HXHDC	3.000 ea
036000020JB	HHCS M8-1.25X20L PLTD-250	4.000 ea
036000045JB	M8-1.25 X 45MM HXHCS	4.000 ea
036600009AB	METRIC FLWASH M8 PLATED	3.000 ea
036620009AB	M8 EXTERNAL LK WASHER	1.000 ea
065530000B	GASK	1.000 ea
075451000A	COVER, CONDUIT BOX	1.000 ea
410978010C	FLANGE, INLET BLOWER HSG.	1.000 ea
410978019A	SCREEN, INLET FLANGE	1.000 ea
415000103G	TLUG	1.000 ea
417733001G	GASKT	2.000 ea
418010006A	CAST,MPLATE,180-280,EX1,7BY	1.000 ea
418018074A	GROUND LABEL G100 METRIC 160 D.C.	1.000 ea
422919001	CVRKT BE SOLID C210	1.000 ea
422919003	HHCVR KIT,C210,DE,LOUVERED	1.000 ea
422919003	HHCVR KIT,C210,DE,LOUVERED	1.000 ea
422919012	HHCVR KIT,C210,ODE,SOLID	1.000 ea
422919012	HHCVR KIT,C210,ODE,SOLID	1.000 ea
422919012	HHCVR KIT,C210,ODE,SOLID	1.000 ea
610490001AH	.75HP,3450//2850RPM,3PH,60//50HZ,56C,351	1.000 ea
611917002A	GASKT	1.000 ea
611965001A	WHEEL, BLOWER	1.000 ea
706305026A	GUARD,SHAFT	1.000 ea
706320003A	CONDUIT BOX	1.000 ea
708528004G	HOUSING, BLOWER	1.000 ea
000640000P	TAG WINDING THERMOST	1.000 ea
000692000NG	LABEL ;NP 4POLE METRIC LABEL	1.000 ea
004824007K	SPECIAL PAINT	0.100 ea
034180020GA	KEY 1/2X1/2X2-1/2 L	1.000 ea

418018116

WARNING PLATE

1.000 ea

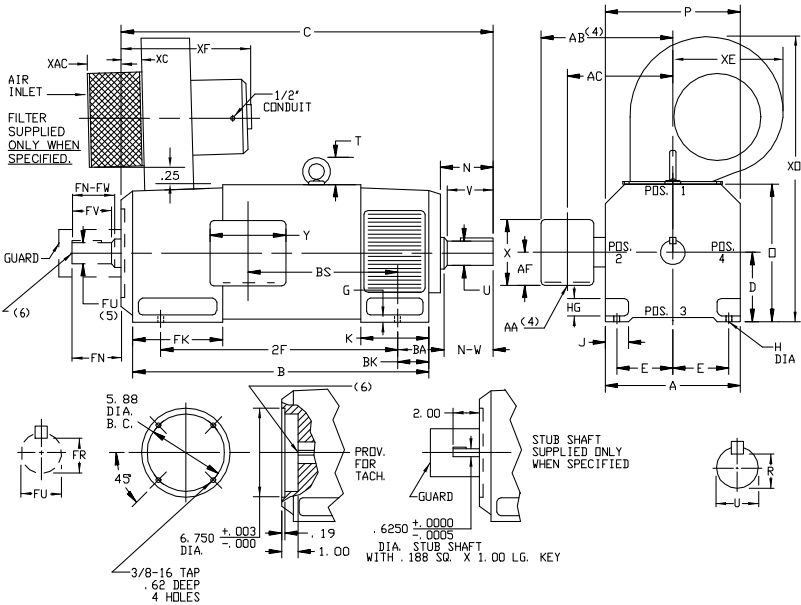
616002-001

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.	WT. 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 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.

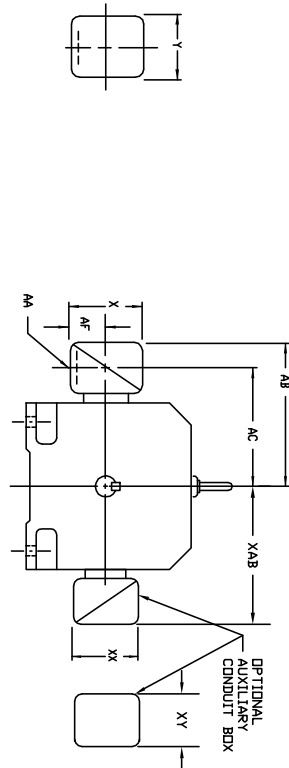
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

REV. DESC: LOADED TO BUS	VERSION: 00	TDR: 000000578087
REV. LTR: -	REVISED: 08:22:49 01/28/2011	BY: CONNAS
FILE: \RGG\00015\944		
MTL: -		

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

616002-001

INDUSTRIAL DIRECT CURRENT MOTORS
AND GENERATORS - RPM III
TERMINAL BOX DIMENSIONS
STANDARD SIZE AND ONE SIZE LARGER
FRAMES C2113A1Z THRU C2815A1Z



DIMENSIONS ARE IN INCHES

[illegible]

CAST IRON TERMINAL BOX DIMENSIONS															
FRAME SIZE	MAX. AMPS	STANDARD SIZE					PART		ONE SIZE LARGER					PART	
		AB	AC	AF	X	Y	NUMBER	AB	AC	AF	X	Y	NUMBER		
C2113M12	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-R
C2113M17	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
C2115M12	96	1-1/2	10.97	8.53	3.00	6.00	7.00	705029-2-R	2"	10.97	8.53	3.00	6.00	7.00	705029-2-S
C2512M12	208	2"	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
C2512M17	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
C2513M12	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
C2513M17	96	1-1/2	12.03	9.59	3.00	6.00	7.00	705029-2-S	2"	12.03	9.59	3.00	6.00	7.00	705029-2-T
C2515M12	208	2"	12.03	9.59	3.00	6.00	7.00	705029-2-T	2-1/2	13.72	9.97	3.62	7.88	9.25	705030-2-S
C2812M12	128	3"	12.78	10.34	3.00	6.00	7.00	754601-T	3"	14.47	10.72	3.62	7.88	9.25	767001-RB
C2812M17	165	3"	14.47	10.72	3.62	7.88	9.25	767001-RB	4"	15.78	11.59	4.12	9.50	10.50	767001-R
C2815M12	365	4"	15.78	11.59	4.12	9.50	10.50	767001-R	5" (4)	18.59	13.34	4.75	13.50	15.00	768701-S

CONDUIT BOX DIMENSIONS WITH TERMINAL BORDERS (IEC TYPE BOX)											
STANDARD SIZE											
FRAME SIZE	AMPS	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	706310-225-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		X-Y		PART NUMBER	
C310	7.48	4.25	4.25	602007-26-A	C310
C350	8.44	4.23	4.23	602007-26-A	C350
C380	9.12	4.23	4.23	602007-26-A	C380

- (1) STEEL CONDUIT.
(2) "AA" TERMINAL BOX FOR CELL13A17 AND C5512A17
(3) FRAMES PROVIDED WITH DOUBLE KNOCKOUT.
(4) "AA" PIPE TAB.
- (4) TERMINAL BOX 76870-05 AND 76870-0R EXTENDS BELOW MOTOR FEET.
TERMINAL BOX CAN BE ROUTED FOR LEAD OUTLET AT TOP, SIZES OR BOTTOM
TERMINAL BOX LOCATED ON OPPOSITE SIDE WHEN F-2, W-4, W-5, W-7,
OR C-1 MOUNTING IS SPECIFIED. BOX LOCATED ON TOP WHEN SPECIFIED.
FOR "X"PP TERMINAL BOX DIMENSIONS SEE 609393-2
FOR "LL" TYPE TERMINAL BOX DIMENSIONS SEE 609393-3.

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

BALDOIR

DIMENSION SHEET

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