

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

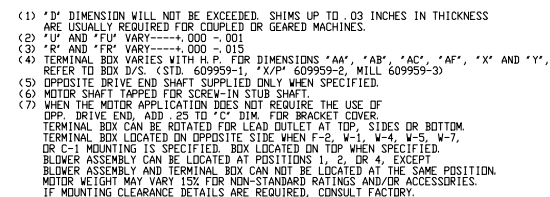
Part Detail

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

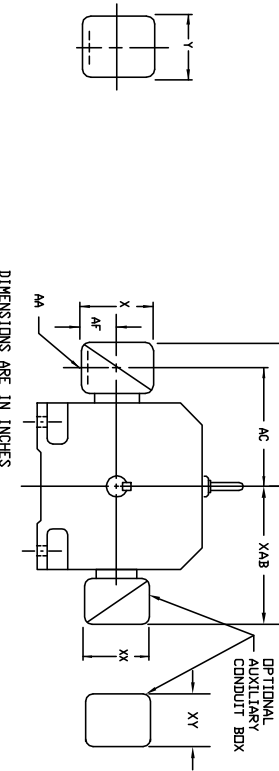
000613006HP									
CAT.NO.	D5020R-BV	SPEC NO.		T21T1350					
FR	SC 2113ATZ	HP	20		DUTY		CONT		
ENCL.	DP	RPM	1750/ 2300			S.F.	1.0		
ENCL MOD	FORCE VENT	VOLTS		500		INSUL		F	
MAX SAFE SPEED	4500	AMPS		37.00		AMB.		40	
FIELD DATA		SER.NO.							
WINDING	STR SHUNT	POWER CODE		C					
VOLTS	300	D.E. BRG.		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									

ACCESSORIES: PROVISION FOR
TACHOMETER MOUNTING
ONLY WHEN SPECIFIED



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

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

STEEL TERMINAL BOX DIMENSIONS															
FRAME SIZE	MAX. AMPS	STANDARD SIZE					ONE SIZE LARGER					PART NUMBER			
		AA(1)	AB	AC	AF	Y	AA(1)	AB	AC	AF	Y				
C2113ATZ	40	3/4 & 1"	8.97	7.47	1.94	4.38	5.00	7.05028-1-R	1-1/4 & 1-1/2	10.03	8.03	2.50	5.50	6.12	7.05029-1-R
C2115ATZ	96	1-1/4 & 1-1/2	10.03	8.03	2.50	5.50	6.12	7.05029-1-R	2" & 2-1/2	11.16	8.41	3.19	7.00	7.62	7.05030-1-R
(2)	208	2" & 2-1/2	11.16	8.41	3.19	7.00	7.62	7.05028-1-R	2" & 2-1/2	11.16	8.41	3.19	7.00	7.62	7.05030-1-R
C2514ATZ	40	3/4 & 1"	10.03	8.53	1.94	4.38	5.00	7.05028-1-R	1-1/4 & 1-1/2	11.09	9.09	2.50	5.50	6.12	7.05029-1-R
C2514ATZ	96	1-1/4 & 1-1/2	11.09	9.09	2.50	5.50	6.12	7.05029-1-R	2" & 2-1/2	12.22	9.47	3.19	7.00	7.62	7.05030-1-R
(2)	208	2" & 2-1/2	12.22	9.47	3.19	7.00	7.62	7.05030-1-R	2" & 2-1/2	12.22	9.47	3.19	7.00	7.62	7.05030-1-R
C2815ATZ	155	3"	14.03	10.53	4.25	8.44	7.25	7.06747-R	3"	14.47	11.22	4.25	8.44	7.25	7.06747-2-R
C2815ATZ	259	4"	15.91	11.84	5.38	10.56	9.00	7.06308-3-R	5" (4)	18.72	13.47	7.00	12.75	15.00	7.06355-1-C

CAST IRON TERMINAL BOX DIMENSIONS															
FRAME SIZE	MAX. AMPS	STANDARD SIZE					ONE SIZE LARGER								
		AK(3)	AB	AC	AF	NUMBER	AK(3)	AB	AC	AF	NUMBER				
C2113ATZ	18	3/4	10.03	8.03	2.50	5.00	5.75	7.05028-2-S	1"	10.03	8.03	2.50	5.00	5.75	7.05028-2-T
C2115ATZ	40	1"	10.03	8.03	2.50	5.00	5.75	7.05028-2-T	1-1/2	10.97	8.53	3.00	6.00	7.00	7.05029-2-R
C2115ATZ	96	1-1/2	10.97	8.53	3.00	6.00	7.00	7.05029-2-R	2"	10.97	8.53	3.00	6.00	7.00	7.05029-2-S
C2514ATZ	208	2"	10.97	8.53	3.00	6.00	7.00	7.05029-2-S	2-1/2	12.66	8.91	3.62	7.88	9.25	7.06029-2-R
C2514ATZ	18	3/4	11.09	9.09	2.50	5.00	5.75	7.05028-2-S	1"	11.09	9.09	2.50	5.00	5.75	7.05028-2-T
C2514ATZ	40	1"	11.09	9.09	2.50	5.00	5.75	7.05028-2-T	1-1/2	12.03	9.59	3.00	6.00	7.00	7.05029-2-R
C2514ATZ	96	1-1/2	12.03	9.59	3.00	6.00	7.00	7.05029-2-R	2"	12.03	9.59	3.00	6.00	7.00	7.05029-2-S
C2514ATZ	208	2"	12.03	9.59	3.00	6.00	7.00	7.05029-2-S	2-1/2	13.72	9.97	3.62	7.88	9.25	7.06029-2-R
C2813ATZ	155	3"	14.78	10.34	3.00	6.00	7.00	7.06460-T	3"	14.47	10.72	3.62	7.88	9.25	7.06708-R
C2813ATZ	259	4"	15.78	11.59	4.12	9.50	10.50	7.06708-R	5" (4)	18.59	13.34	5.17	12.75	15.00	7.06708-S

CONDUIT BOX DIMENSIONS WITH TERMINAL BOARDS (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	7.06310-56-A	7.06310-225-R
	200	11.66	9.25	3.35	8.82	--	8.82	7.06310-56-B	7.06310-225-R
	100	11.30	9.57	2.72	7.48	--	7.48	7.06310-56-A	7.06310-225-R
C250	200	11.85	9.84	3.35	8.82	--	8.82	7.06310-56-B	7.06310-225-R
	400	17.48	12.75	6.20	14.39	--	14.39	7.06310-63-B & 7.06310-63G	7.06310-63-B & 7.06310-63G
	800	17.48	12.75	6.20	14.39	--	14.39	7.06310-63-B & 7.06310-63G	7.06310-63-B & 7.06310-63G
C280	200	12.60	10.59	3.76	8.82	--	8.82	7.06310-56-B	7.06310-225-R
	400	18.27	13.54	6.20	14.39	--	14.39	7.06310-63-B & 7.06310-63G	7.06310-63-B & 7.06310-63G
	800	18.27	13.54	6.20	14.39	--	14.39	7.06310-63-B & 7.06310-63G	7.06310-63-B & 7.06310-63G
	1600	18.27	13.54	7.68	15.35	--	15.35	7.06310-63-C	7.06310-63-C

OPTIONAL AUXILIARY CONDUIT BOX DIMENSIONS (MAXIMUM)														
FRAME SIZE		XAB	XY	PART NUMBER	FRAME SIZE		XAB	XY	PART NUMBER	FRAME SIZE		XAB	XY	PART NUMBER
C210		7.38	4.25	6.02007-26-A	C210		10.88	8.00	7.06310-3-B	C250		11.88	8.00	7.06310-3-B
C250		8.44	4.25	6.02007-26-A	C250		11.88	8.00	7.06310-3-B	C280		12.62	8.00	7.06310-3-B
C280		9.12	4.25	6.02007-26-A	C280		12.62	8.00	7.06310-3-B					

(1) MAX CONDUIT
(2) RATES PROVIDED WITH DOUBLE KNUCKLE
(3) MAX 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
DR C-1 MOUNTING IS SPECIFIED. BOX LOCATED IN TOP WHEN SPECIFIED.
FOR "X"/P/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

