

ABB BALDOR RELIANCE III

Customer information packet

D5060RS-BV

60HP, 1750RPM, DC, 2812ATZ, DPG-FV,

Specifications

Enclosure	DP
Frame	MC2812ATZ
Frame Material	Steel
Output Power	60.000 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	STAB SHUNT
Frame Prefix	MC
Heater Indicator	No Heater
Lifting Lugs	Standard Lifting Lugs
Motor Standards	NEMA
Mounting Arrangement	F2
Overall Length	37.38 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Slinger Indicator	No Slinger

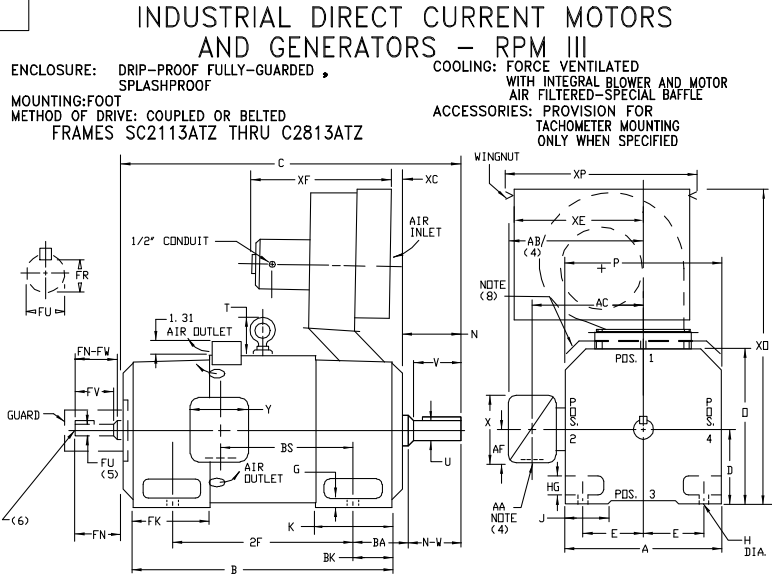
Part Detail

Revision	-
Type	DC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	G7693A A
Layout	609952-096
Eff. date	04-13-2015
CD Diagram	406770-001
Poles	00
Leads	
Proprietary	False
Created date	04-09-2015

Nameplate

000613006LP									
CAT.NO.	D5060RS-BV	SPEC NO.		T28T1330					
FR	MC 2812ATZ	HP	60		DUTY		CONT		
ENCL.	DP	RPM	1750/ 2100			S.F.	1.0		
ENCL MOD	FORCE VENT	VOLTS		500		INSUL		F	
MAX SAFE SPEED	4500	AMPS		100.00		AMB.		40	
FIELD DATA		SER.NO.							
WINDING	STAB SHUNT	POWER CODE		C					
VOLTS	300	D.E. BRG.		65BC03J30X					
MAX AMPS @ 25 C	3.43	O.D.E. BRG.		55BC02J30X					
HOT AMPS	2.41/ 1.90	MIN. AMB.		0		TYPE		TR	
BRUSH:419904051AD; AIR BAFFLED									

609952-096



DIMENSIONS ARE IN INCHES

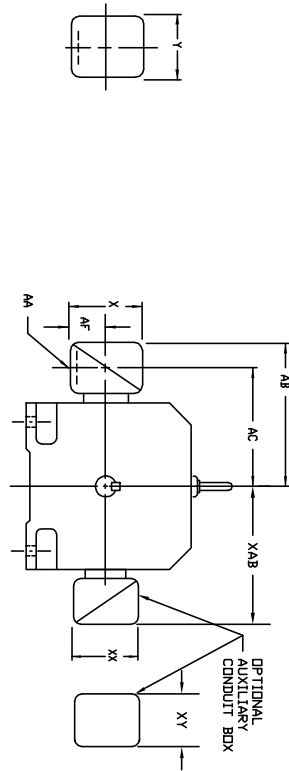
FRAME	XC	XE	XF	XD	XP
SC2113ATZ-LC2113ATZ	1.00	10.00	17.25	28.00	14.50
SC2512ATZ-LC2512ATZ	2.50	10.00	17.25	30.31	14.50
MC2812ATZ-LC2813ATZ	1.75	10.00	18.50	30.62	14.50

FRAME	A	DK(1)	E	G	H	HG	J	D	P	T	BA	K	FK	BK
SC2113ATZ-LC2113ATZ	10.25	5.25	4.25	.44	.44	1.38	1.75	10.44	10.31	2.56	3.50	5.19	6.81	2.38
SC2512ATZ-LC2512ATZ	12.31	6.25	5.00	.50	.56	1.62	2.00	12.50	12.44	3.06	4.25	6.06	8.00	3.00
MC2812ATZ-LC2813ATZ	13.78	7.00	5.50	.62	.56	1.88	2.75	14.00	13.94	3.38	4.75	6.75	9.19	3.50

FRAME	C	B	BS	2F	DRIVE END SHAFT AND KEY					OPPOSITE DRIVE END SHAFT AND KEY(S)					WT. LBS.				
					N	N-W	UK(2)	V	RK(3)	SK	LGTH.	FN	FN-FW	FUK(2)		FV	FR(3)	SK	LGTH.
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
SC2512ATZ	31.69	25.06	12.06	20.00	4.50	4.25	2.125	4.00	1.845	500	3.00	4.00	3.75	1.875	3.50	1.591	500	2.50	535
MC2512ATZ	33.19	26.56	13.56	20.00	4.50	4.25	2.125	4.00	1.845	500	3.00	4.00	3.75	1.875	3.50	1.591	500	2.50	570
LC2512ATZ	34.69	28.06	15.06	20.00	4.50	4.25	2.125	4.00	1.845	500	3.00	4.00	3.75	1.875	3.50	1.591	500	2.50	610
MC2812ATZ	37.38	29.94	14.25	22.00	5.00	4.75	2.375	4.50	2.021	625	3.50	4.50	4.25	2.125	4.00	1.845	500	3.00	810
LC2812ATZ	39.62	32.19	16.50	22.00	5.00	4.75	2.375	4.50	2.021	625	3.50	4.50	4.25	2.125	4.00	1.845	500	3.00	885
LC2813ATZ	41.25	33.81	18.12	25.00	5.00	4.75	2.375	4.50	2.021	625	3.50	4.50	4.25	2.125	4.00	1.845	500	3.00	940

(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" DIA. FOR BRACKET COVER.
(8) FOR HORIZONTAL APPLICATIONS ONLY.
TERMINAL BOX CAN BE ROTATED FOR LEAD OUTLET AT TOP, SIDES OR BOTTOM. TERMINAL BOX LOCATED ON OPPOSITE SIDE WHEN F-2, W-1, V-4, Y-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. MOTOR WEIGHT MAY VARY 15% FOR NON-STANDARD RATINGS AND/OR ACCESSORIES. IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY. BLOWER MOTOR

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

FRAME SIZE	MAX. AMPS	STANDARD SIZE					STEEL TERNAL BOX DIMENSIONS					ONE SIZE LARGER					PART				
		AA(1)	AB	AC	AF	Y	AA(1)	AB	AC	AF	Y	AA(1)	AB	AC	AF	Y	NUMBER				
C2113A17	96	4/3 & 1/4	1-1/2	8.97	7.47	1.94	4.38	5.00	7.05	929-1-R	1-1/4 & 1-1/2	10.03	8.03	2.50	5.50	6.12	705029-1-R				
C2113A17	96	1-1/4 & 1-1/2	1-1/2	8.03	6.03	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					
C2113A17	208	2" & 2-1/2	1-1/2	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					
C2113A17	408	4/3 & 1-1/2	1-1/2	10.03	8.53	1.94	4.38	5.00	705029-1-R	1-1/4 & 1-1/2	11.09	9.09	2.50	5.50	6.12	705029-1-R					
C2113A17	96	1-1/4 & 1-1/2	1-1/2	11.09	9.09	2.50	5.50	6.12	705030-1-R	2" & 2-1/2	12.82	9.47	3.19	7.00	7.62	705030-1-R					
C2113A17 (C2)	208	2" & 2-1/2	1-1/2	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					
C2113A17	408	4/3 & 1-1/2	1-1/2	14.03	10.53	4.25	8.44	7.25	74874-R	3"	14.47	11.82	4.25	8.44	7.25	74874-R					
C2113A17	128	3"	1-1/2	14.47	11.82	4.25	8.44	7.25	74874-R	3"	15.91	11.82	4.25	8.44	7.25	74874-R					
C2113A17	195	3"	1-1/2	15.91	11.82	4.25	8.44	7.25	74874-R	3"	17.47	13.47	4.25	8.44	7.25	74874-R					
C2113A17	263	4"	1-1/2	17.47	13.47	4.25	8.44	7.25	74874-R	4"	18.72	13.47	4.25	8.44	7.25	74874-R					

CAST IRON TERNAL BOX DIMENSIONS														
FRAME SIZE		STANDARD SIZE						ONE SIZE LARGER						
MAX. AMPS	AC(3)	AB	AC	AF	X	Y	PART NUMBER	AC(3)	AB	AC	AF	X	Y	PART NUMBER
18	3/4	10.03	8.03	2.50	5.00	5.75	705068-2-S	1"	10.03	8.03	2.50	5.00	5.75	705068-2-R
23119A7	40	10.03	8.03	2.50	5.00	5.75	705068-2-T	1-1/2	10.97	8.53	3.00	6.00	7.00	705069-2-R
23119A7	1-1/2	10.97	8.53	3.00	6.00	7.00	705069-2-R	2"	10.97	8.53	3.00	6.00	7.00	705069-2-S
23119A7	2"	10.97	8.53	3.00	6.00	7.00	705069-2-S	2-1/2	12.66	8.51	3.62	7.88	9.25	705069-2-R
208	3/4	11.09	9.09	2.50	5.00	5.75	705068-2-T	1"	11.09	9.09	2.50	5.00	5.75	705068-2-R
2512A12	40	11.09	9.09	2.50	5.00	5.75	705068-2-T	1-1/2	12.03	9.59	3.00	6.00	7.00	705069-2-R
2514A12	96	12.03	9.59	3.00	6.00	7.00	705069-2-R	2-1/2	13.72	9.57	3.62	7.88	9.25	705069-2-R
2514A12	2"	12.03	9.59	3.00	6.00	7.00	705069-2-R	3"	14.47	10.72	3.62	7.88	9.25	705069-2-R
2514A12	3"	14.47	10.72	3.62	7.88	9.25	705069-2-R	4"	15.78	11.59	4.12	7.50	10.50	705069-2-R
2514A12	4"	15.78	11.59	4.12	7.50	10.50	705069-2-R	5" (4)	18.59	13.34	5.75	15.00	16.70	705069-2-R

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	706310-225-R	706310-225-R
	200	11.26	9.25	3.35	8.82	---	8.82	706310-56-B	706310-226-R	706310-226-R	706310-226-R
	100	11.30	9.57	2.72	7.48	---	7.48	706310-56-A	706310-225-R	706310-225-R	706310-225-R
C250	200	11.85	9.84	3.35	8.82	---	8.82	706310-63-B	706310-226-R	706310-226-R	706310-226-R
	400	17.48	12.75	6.20	14.39	---	14.39	706310-63-B & 706310-636	706310-63-B & 706310-636	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	706310-63-B & 706310-636	706310-63-B & 706310-636
C280	200	12.60	10.99	3.76	8.82	---	8.82	706310-66-B	706310-226-R	706310-226-R	706310-226-R
	400	18.27	13.54	6.20	14.39	---	14.39	706310-63-B & 706310-636	706310-63-B & 706310-636	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	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	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 TAP.
- (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-1, 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.

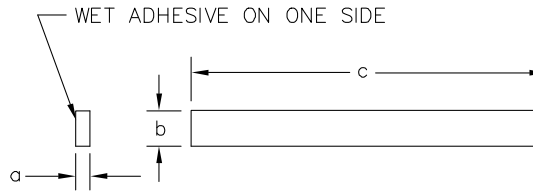
REV. DESC: ADD 706310-63G C/BOX TO C250 AND C280 FRAMES		
REV. LTR: A	VERSION: 01	TDR: 000000816512
FILE: \RGG\00021\153		REVISED: 03:09:09 09/06/2013
MTL: -		BY: RGGWT

BALDOR

DIMENSION SHEET

SH 1 of 1

065564-004



SYM	MAKE FROM 065564-004	a	b	c	REMARKS
A	X	1/8	5/8	24*	TERMBX & CVR 180AT-250AT
B	X	1/8	5/8	37 1/2*	TERMBX & CVR 280AT-320AT
C	Y	1/4	5/8	44 1/2 Δ	FILTER TO HOUSING GASKET
D	X	1/8	5/8	170"	TEAO HEAT EXCH.
E	Y	1/4	5/8	72" Δ	TERMBX & CVR

SYM	MAT'L SPEC	a	b	c
X	46024-XV	1/8	5/8	* 50' ROLL; WET ADHESIVE ON ONE SIDE
Y	46024-XV	1/4	5/8	* 50' ROLL; WET ADHESIVE ON ONE SIDE

Δ RELIANCE WILL CUT AND MOUNT ON FILTER HOUSING PER ASSEMBLY DRAWING 603989-2.

* PROD. NOTE: WHEN ORDERING THRU PURCHASING ORDER AS 50 FT. ROLLS, WET ADHESIVE ON ONE SIDE. RELIANCE WILL CUT AND MOUNT ON COVER. PER INSTRUCTIONS ON COVER DRAWINGS.

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

REV. DESC: CHANGE DESCRIPTION ON TITLE BLOCK		
REV. LTR: C	VERSION: 03	TDR: 000000571980
FILE: \RGG\00000\220	REVISED: 10:54:04 12/16/2010	BY: RGGWT
MTL: -		

BALDOR
GASKET,STRIP,CLOSED CELL NEOPRENE
SH 1 of 1

065564-004

