

ABB BALDOR RELIANCE III

Customer information packet D2015R

15 1750 SC2113ATZ DPG 240V

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	STAB 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.	G6067A A
Layout	609950-001
Eff. date	04-13-2015
CD Diagram	406770-001
Poles	00
Leads	
Proprietary	False
Created date	04-09-2015

Nameplate

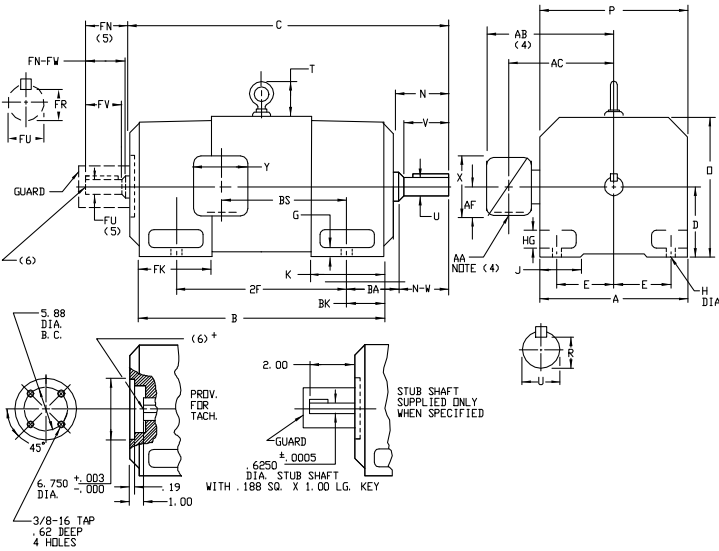
000613006HP									
CAT.NO.	D2015R	SPEC NO.		T21S1330					
FR	SC 2113ATZ	HP	15		DUTY		CONT		
ENCL.	DP	RPM	1750/ 2300			S.F.	1.0		
ENCL MOD	GUARDED	VOLTS	240			INSUL		F	
MAX SAFE SPEED	4500	AMPS	56.00			AMB.	40		
FIELD DATA		SER.NO.							
WINDING	STAB SHUNT	POWER CODE		C					
VOLTS	150	D.E. BRG.		50BC03J30X					
MAX AMPS @ 25 C	4.12	O.D.E. BRG.		45BC02J30X					
HOT AMPS	2.85/ 1.92	MIN. AMB.		0		TYPE		TR	
BRUSH:419904051AD									

609950-001

INDUSTRIAL DIRECT CURRENT MOTORS
AND GENERATORS - RPM III

ENCLOSURE: DRIP-PROOF FULLY-GUARDED, COOLING: SELF-VENTILATED
SPLASHPROOF, TOTALLY ENCLOSED NON-VENTILATED
MOUNTING: FOOT ACCESSORIES: PROVISION FOR
METHOD OF DRIVE: COUPLED OR BELTED TACHOMETER MOUNTING
ONLY WHEN SPECIFIED

FRAMES SC2113ATZ THRU LC2812ATZ



DIMENSIONS ARE IN INCHES; SEE 609950-1M FOR DIMENSIONS IN MILLIMETERS

FRAME	A	X(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-LC2812ATZ	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	D(7)	B	BS	2F	DRIVE END SHAFT AND KEY							OPPOSITE DRIVE END SHAFT AND KEY(S)							WT.
					N	N-W	UK(2)	V	R(3)	SQ	LGTH.	FN	FN-FW	FK(2)	FV	FR(3)	SQ	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	315
LC2113ATZ	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	340
SC2512ATZ	31.69	25.06	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	505
MC2512ATZ	33.19	26.56	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	540
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	580
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	775
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	850

- (1) "D" 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 DFP, 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, V-1, W-4, V-5, W-7, OR C-1 MOUNTING IS SPECIFIED. BOX LOCATED ON TOP WHEN SPECIFIED. 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: 000000577407
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FILE: \RGG\00015\543		
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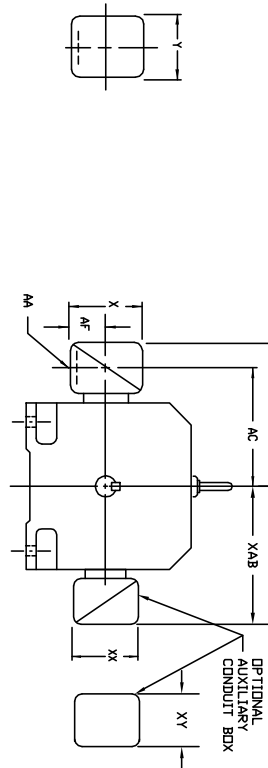
BALDOR

DIMENSION DRAWING, SC2113ATZ - LC2812ATZ, DPP, TENV, FOOT MTG

SH 1 of 1

609950-001

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

STEEL (EARTHQUAKE) BOX DIMENSIONS														
FRAME TYPE	MAX. SPAN	STANDARD SIZE					PART NUMBER		END SIZE (LARGER)			PART NUMBER		
		AB	AC	AD	X	Y	AA(1)	AB	AC	AD				
C2119A7	40' 3/4" & 1'	8.97	7.47	1.94	4.38	5.00	705028-1-R	1'-1/4" & 1'-1/2"	10.03	8.03	2.50	5.50	6.12	705029-1-R
C2115A7	56' 1'-1/4" & 1'-1/2"	10.03	8.03	2.50	5.50	6.12	705030-1-R	2' & 2'-1/2"	11.16	8.41	3.19	7.00	7.62	705031-1-R
C2115A7	208' 2" & 2'-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
C2112A7	40' 3/4" & 1'	10.03	8.53	1.94	4.38	5.00	705028-1-R	1'-1/4" & 1'-1/2"	11.09	9.09	2.50	5.50	6.12	705029-1-R
C2112A7	56' 1'-1/4" & 1'-1/2"	11.22	9.09	2.50	5.50	6.12	705030-1-R	2' & 2'-1/2"	12.22	9.47	3.19	7.00	7.62	705031-1-R
C2112A7	208' 2" & 2'-1/2"	12.22	9.47	3.19	7.00	7.62	705030-1-R	2' & 2'-1/2"	12.22	9.47	3.19	7.00	7.62	705030-1-R
C2112A7	56' 1'-1/4" & 1'-1/2"	14.03	10.53	4.25	8.44	7.55	74874-R	3'	14.47	11.22	4.25	8.44	7.55	74874-R
C2115A7	185	3'	14.47	11.22	4.25	8.44	7.55	74874-R	3'	15.91	11.84	5.38	10.50	705036-3-R
C2115A7	185	3'	14.47	11.22	4.25	8.44	7.55	74874-R	3'	15.91	11.84	5.38	10.50	705036-3-R
C2115A7	269	4'	15.91	11.84	5.38	10.50	705036-3-R	5' (4)	18.72	13.47	7.00	12.75	15.00	705055-1-C

CAST IRON TERMINAL BOX DIMENSIONS															
FRAME SIZE		STANDARD SIZE						ONE SIZE LARGER							
MAX. AMPS	AC(1)	AB	AC	AF	Y	NUMBER	AC(2)	AB	AC	AF	Y	NUMBER	PART		
18	3/4	10.03	8.03	2.50	5.00	7.75	705028-2-S	1"	10.03	8.03	2.50	5.00	7.75	705028-2-R	
25113M7	40	1"	10.03	8.03	2.50	5.00	7.75	705028-2-T	1-1/2	10.97	8.53	3.00	6.00	7.00	705029-2-R
25115M7	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
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	
2512M7	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
2513M7	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
25135M7	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
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	
25812M7	128	3"	12.78	10.34	3.00	6.00	7.00	756001-R	3"	14.47	10.72	3.62	7.88	9.25	767001-R
25815M7	165	3"	14.47	10.72	3.62	7.88	9.25	767001-R	4"	15.78	11.59	4.12	8.50	10.50	767001-R
25817M7	265	4"	15.78	11.59	4.12	9.50	10.50	767001-R	5" (4)	18.59	13.34	4.75	13.50	15.50	768701-S

CONDUIT BOX DIMENSIONS WITH TERMINAL BOARDS (IEC TYPE BOX)										
STANDARD SIZE										
FRAME SIZE	AMP	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	10.39	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	

OPTICAL AUXILIARY CONDUIT BOX DIMENSIONS (MM/INCH)					
FRAME SIZE	XAB	XX	XY	CONDUIT SIZE	PART NUMBER
C310	7.88	4.25	4.25	602007-26-A	10.88 8.00 8.00
C350	8.14	4.25	6.00	602007-26-A	11.88 8.00 8.00
C380	9.12	4.25	4.25	602007-26-A	12.62 8.00 8.00
				C380	706310-3-B

- (1) "AA CONDUIT."
(2) "AA TERMINAL BOX FOR C6113A17Z AND C6512A17Z."
(3) "AA PIPE TAP."
(4) TERMINAL BOX 76870-00 AND 76870-0R EXTENDS BELOW MOTOR FEET. TERMINAL BOX CAN BE ROTATED FOR LEAD OUTLET AT TOP, SLOES 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" TERMINAL BOX DIMENSIONS SEE 609935-3. FOR "Y" TERMINAL BOX DIMENSIONS SEE 609935-3. FOR "Z" TERMINAL BOX DIMENSIONS SEE 609935-3.

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

406770-001			406770-001	
CONNECTION DIAGRAM D-C MOTOR - STAB. SHUNT W1 <NOTE 7> SHUNT FIELD ARMATURE INTER-COIL SERIES FIELD SERIES FIELD H1 H2 F1 A1 AX2 A2 S1 S2 S3 S4 F2 P1 P2 <NOTE 4> <CAUTION-SEE NOTE 1> <NOTE 2> <NOTE 5> TD1 TD2 TD3 TD <NOTE 6> THREE WIRE RTD ARMATURE AND FIELD EXTERNAL CONNECTIONS WARNING- SEE NOTE 8 FOR GROUNDING INSTRUCTIONS CCW ROTATION CW ROTATION ROTATION FACING COMMUTATOR END 1. CAUTION — ARMATURE AND SERIES FIELD MAY HAVE MULTIPLE LEADS. CONNECT ALL LUGS WITH THE SAME MARKING TOGETHER. 2. OPTIONAL SERIES FIELD IS MARKED S3 AND S4. FOR CUMULATIVE SERIES FIELD, CONNECT S3 TO S2 AND CONNECT S4 TO NEGATIVE. FOR DIFFERENTIAL SERIES FIELD CONNECT S4 TO S2 AND S3 TO NEGATIVE. 3. OPTIONAL CONTROL SIGNAL LEAD IS MARKED AX2. ALWAYS TAKE INTERPOLE DROP BETWEEN A2 AND AX2. NOTE: NEMA DESIGNATION FOR AX2 IS LETTER C. 4. SPACE HEATERS, WHEN PROVIDED, WILL HAVE LEADS MARKED H1 AND H2, H3, H4, ETC. 5. THERMAL PROTECTOR, WHEN PROVIDED, WILL HAVE LEADS MARKED P1 AND P2, P3, P4, ETC. 6. WINDING RTD'S, WHEN PROVIDED, WILL HAVE LEADS MARKED TD1, TD2, & TD3 7. BRUSH WEAR SENSOR, WHEN PROVIDED, WILL HAVE LEAD MARKED W1. 8. 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 DRIVE END BRACKET, ADJACENT TO THE TERMINAL BOX FOR MOTOR GROUNDING. GROUND LEAD, WHEN PROVIDED, WILL BE GREEN. CUSTOMER _____ ORDER NO. _____ S.D. NO. _____ REL CUMULATIVE DIFFERENTIAL AX2 H1 H2 H3 H4 P1 P2 P3 P4 TD1 TD2 TD3 W1				

REV. DESC: DELETED DUPLICATE WORDS FROM NOTE 8			BALDOR D-C MOTOR CONNECTION DIAGRAM STAB. SHUNT SH 1 of 1	
REV. LTR: A	VERSION: 01	TDR: 000000970330		
FILE: \RSN\00026\422	REVISED: 10:19:12 03/11/2016	BY: RAGTBM		
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