

ABB BALDOR RELIANCE III

Customer information packet D2025R

25HP, 1750RPM, DC, 2113ATZ, DPG,

Specifications

Enclosure	DP
Frame	LC2113ATZ
Frame Material	Steel
Output Power	25.000 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	LC
Heater Indicator	No Heater
Lifting Lugs	Standard Lifting Lugs
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	31.25 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Slinger Indicator	No Slinger

Part Detail

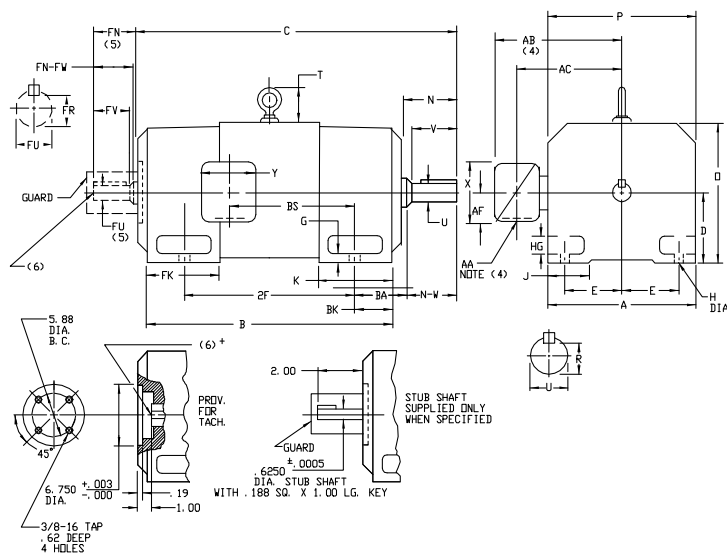
Revision	-
Type	DC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	G6069B B
Layout	609950-001
Eff. date	04-13-2015
CD Diagram	406770-001
Poles	00
Leads	
Proprietary	False
Created date	04-09-2015

Nameplate

000613006HP									
CAT.NO.	D2025R	SPEC NO.		T21S1332					
FR	LC 2113ATZ	HP	25		DUTY		CONT		
ENCL.	DP	RPM	1750/ 2300		S.F.		1.0		
ENCL MOD	GUARDED	VOLTS		240		INSUL		F	
MAX SAFE SPEED	4500	AMPS		91.50		AMB.		40	
FIELD DATA		SER.NO.							
WINDING	STAB SHUNT	POWER CODE		C					
VOLTS	150	D.E. BRG.		50BC03J30X					
MAX AMPS @ 25 C	5.84	O.D.E. BRG.		45BC02J30X					
HOT AMPS	3.89/ 2.37	MIN. AMB.		0		TYPE		TR	
BRUSH:419904051AB									

ACCESSORIES: PROVISION FOR
TACHOMETER MOUNTING
ONLY WHEN SPECIFIED

FRAMES SC2113ATZ THRU LC2812ATZ



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

FRAME	A	D(1)	E	G	H	HG	J	D	P	T	BA	K	FK	BA
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	2.31
SC2512ATZ-LC2512ATZ	12.31	6.25	5.00	.50	.56	1.62	2.00	12.50	12.44	3.06	4.25	6.08	8.00	3.33
MC2812ATZ-LC2812ATZ	13.78	7.00	5.00	.62	.56	1.88	2.75	14.00	13.94	3.38	4.75	6.75	9.19	3.33

FRAME	DC7	IRV-E END SHIRT AND KEY				FN FN-FV FV-DZ FV SHY FV FR-DZ												
		B	BS	ZF	N	N	UK-D	V	R-DZ	SD	LGTH	SD	LGTH	SD	LGTH			
SC21312AT	28.68	22.50	11.18	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
MC21312AT	29.26	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
SC21322AT	31.69	25.66	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
MC21322AT	31.39	25.36	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
LC25312AT	34.69	28.15	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
MC25312AT	37.94	29.94	14.44	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
LC25322AT	37.69	28.15	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
MC25322AT	39.39	29.94	14.44	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

- (1) "P" DIMENSION WILL NOT EXCEED SHIMS UP TO .03 INCHES IN THICKNESS ARE USUALLY REQUIRED FOR COUPLED OR GEARED MACHINES.
- (2) "U" AND "F" VARY----- 000 - .001
- (3) "R" AND "FR" VARY----- 000 - .015
- (4) TERMINAL BOX VARIES WITH H. FOR DIMENSIONS "AA", "AB", "AC", "AD", "AE", "X" AND "Y", REFER TO BOX D/S (STB. 609599-1, X/P. 609599-2, MILL 609599-3)
- (5) OPPOSITE DRIVE END SHAFT SUPPLIED ONLY WHEN SPECIFIED.
- (6) SHAFT END TAPPED FOR SCREW-IN STUB SHAFT.
- (7) IF THE MOTOR APPLICATION DOES NOT REQUIRE THE USE OF DPE, DRIVE END, AND P.S. 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.
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.

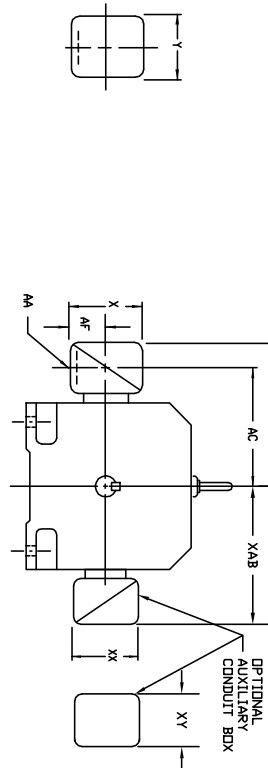
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DIMENSION DRAWING,SC2113ATZ - LC2812ATZ,DPP,TENV,FOOT MTG

SH 1 of 1

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		STANDARD SIZE					ONE SIZE LARGER								
MAX. AMPS	AC(3)	AB	AC	AF	X	Y	NUMBER	AB	AC	AF	X	Y	NUMBER		
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	
25113M7	40	1"	10.03	8.03	2.50	5.00	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	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	7.75	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	7.75	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	18	3/4	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
25812M7	185	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
25815M7	365	4"	15.78	11.59	4.12	9.50	10.50	767001-R	5" (4)	18.59	13.34	4.72	12.75	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	706310-225-R	
	100	11.30	9.57	2.72	7.48	---	7.48	706310-56-A	706310-225-R	
	200	11.85	9.84	3.35	8.82	---	8.82	706310-56-B	706310-225-R	
C250	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	
	200	12.60	10.99	3.76	8.82	---	8.82	706310-56-B	706310-225-R	
	400	18.27	13.54	6.20	14.39	---	14.39	706310-63-B & 706310-636	706310-63-B & 706310-636	
C280	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 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.

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		
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BALDOIR

DIMENSION SHEET

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609959-001

D-C MOTOR CONNECTION DIAGRAM STAB. SHUNT