



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

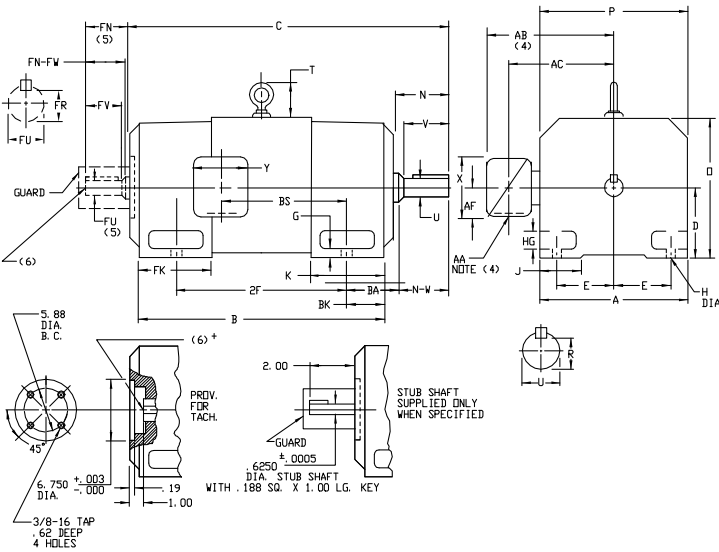
000613006HP									
CAT.NO.	D2025R	SPEC NO.		T21S1332					
FR	LC 2113ATZ	HP	25		DUTY		CONT		
ENCL.	DP	RPM	1750/ 2300		S.F.		1.0		
ENCL MOD	GUARDED	VOLTS		240		INSUL		F	
MAX SAFE SPEED	4500	AMPS	91.50		AMB.		40		
FIELD DATA		SER.NO.							
WINDING	STAB SHUNT	POWER CODE		C					
VOLTS	150	D.E. BRG.		50BC03J30X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

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 TACHOMETER MOUNTING
METHOD OF DRIVE: COUPLED OR BELTED 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	N	N-W	UK(2)	V	R(3)	SQ	LGTH.	FN	FN-FW	FK(2)	FV	FR(3)	SV	LGTH.	WT.
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	16.56	20.00	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
MC2812ATZ	39.62	32.19	18.50	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 SHFT SUPPLIED ONLY WHEN SPECIFIED.
(6) MOTOR SHFT TAPPED FOR SCREW-IN STUB SHFT.
(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, V-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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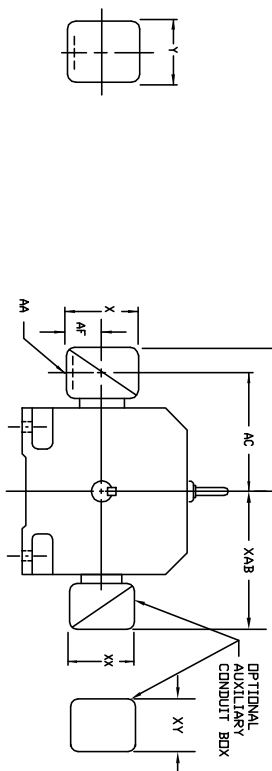
BALDOR
DIMENSION DRAWING, SC2113ATZ - LC2812ATZ, DPP, TENV, FOOT MTG
SH 1 of 1

609950-001

**INDUSTRIAL DIRECT CURRENT MOTORS
AND GENERATORS - RPM III**

TERMINAL BOX DIMENSIONS STANDARD SIZE AND ONE SIZE LARGER
FRAMES C2113ATZ THRU C2815ATZ

DIMENSIONS ARE IN INCHES



STEEL TERMINAL BOX DIMENSIONS															
FRAME SIZE	MAX. AMP'S	STANDARD SIZE					PART NUMBER		ONE SIZE LARGER					PART NUMBER	
		AB	AC	AF	X	Y	AK(1)	AB	AC	AF	X	Y			
C21 3A12	40	3/4 & 1"	8.97	4.7	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
C21 1SA12	96	1-1/4 & 1-1/2	10.03	8.03	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
C21 2SA12	128	1-1/2 & 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
C25 1A12	40	3/4 & 1"	8.08	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
C25 1A12	96	1-1/4 & 1-1/2	11.09	9.09	2.50	5.50	6.12	705029-1-R	2" & 2-1/2	12.82	9.47	3.19	7.00	7.62	705030-1-R
C25 2A12	128	1-1/2 & 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
C28 1A12	185	2"	14.03	10.52	4.38	4.44	7.25	748747-1-R		14.47	11.82	4.25	8.44	7.25	748747-2-R
C28 1A12	259	3"	14.47	11.82	4.25	8.44	7.25	748747-2-R		15.91	13.47	5.38	10.75	8.50	702508-3-R
C28 3A12	259	3"	15.91	11.84	5.38	10.56	9.99	703008-3-R	5" (4)	18.72	13.47	7.00	12.75	15.00	702508-1-C

FRAME SIZE	MAX. AMPS	CAST IRON TERNAL BOX DIMENSIONS										PART									
		STANDARD SIZE					PART					DNE SIZE LARGER					PART				
		AA32	AB	AC	AF	X	Y	Z	NUMBER		AA32	AB	AC	AF	X	Y	Z	NUMBER			
C213A1Z	18	3/4	10.03	8.03	2.50	5.00	5.75	705028-2-S	1	1-1/2	10.03	8.03	2.50	5.00	5.75	705028-2-T	1				
C213A1Z	40	1"	10.03	8.03	2.50	5.00	5.75	705028-2-T	1	1-1/2	10.97	8.53	3.00	6.00	7.00	705029-2-R	1				
C213A1Z	96	1-1/2	10.97	8.53	3.00	6.00	7.00	705029-2-S	2"	1-1/2	10.97	8.53	3.00	6.00	7.00	705029-2-S	2"				
C208	18	3/4	11.09	9.09	2.50	5.00	5.75	705028-2-T	1	1"	11.09	9.09	2.50	5.00	5.75	705028-2-T	1				
C2512A1Z	40	1"	11.09	9.09	2.50	5.00	5.75	705028-2-T	1	1-1/2	12.03	9.59	3.00	6.00	7.00	705029-2-S	2"				
C2514A1Z	96	1-1/2	12.03	9.59	3.00	6.00	7.00	705029-2-R	2"	1-1/2	12.03	9.59	3.00	6.00	7.00	705029-2-S	2"				
C2515A1Z	208	2"	12.78	10.34	3.00	6.00	7.00	705029-2-S	4"	1-1/2	13.47	10.97	3.62	7.88	9.25	765030-2-R	4"				
C2812A1Z	128	2"	12.78	10.34	3.00	6.00	7.00	705029-2-S	3"	1-1/2	14.47	10.97	3.62	7.88	9.25	765030-2-R	3"				
C2813A1Z	185	3"	14.47	10.72	3.62	7.88	9.25	765030-2-R	4"	1-1/2	15.98	11.34	4.12	9.50	10.50	765030-2-S	4"				
C2813A1Z	269	4"	15.78	11.57	4.12	9.50	10.50	765030-2-R	5" (4)	1-1/2	16.59	11.99	4.00	12.75	15.00	76670-5	5" (4)				

CONDUIT BODY DIMENSIONS WITH TERMINAL BOARDS (IEC TYPE BOX)									
STANDARD SIZE									
FRAME SIZE	AMP	AB	AC	AE	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
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	10.59	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

		OPTIMAL AUXILIARY CONDUIT BOX DIMENSIONS (MAXIMUM)					
FRAME SIZE	XAB	XY	PART NUMBER	FRAME SIZE	XAB	XY	PART NUMBER
C210	7.38	4.25	602007-26-A	C210	10.88	8.00	706310-3-B
C230	8.44	4.25	602007-26-A	C230	11.88	8.00	706310-3-B
C280	9.12	4.25	602007-26-A	C280	12.62	8.00	706310-3-B

- (1) "A/C CONDUIT."
- (2) "STEEL TERMINAL BOX FOR C2131A2T AND C25121A2T FRAMES PROVIDED WITH DOUBLE KNUCKOUT."
- (3) "A/C PIPE TAP."
- (4) "TERMINAL BOX 76670-05 AND 76670-08 EXTENDING 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, A-1, A-4, A-5, A-7, OR C-1 WELDING IS SPECIFIED. BOX LOCATED ON TOP WHEN SPECIFIED. FOR A/C WELDING SEE 609939-2. FOR MILL TYPE TERMINAL BOX DIMENSIONS SEE 609939-3."

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
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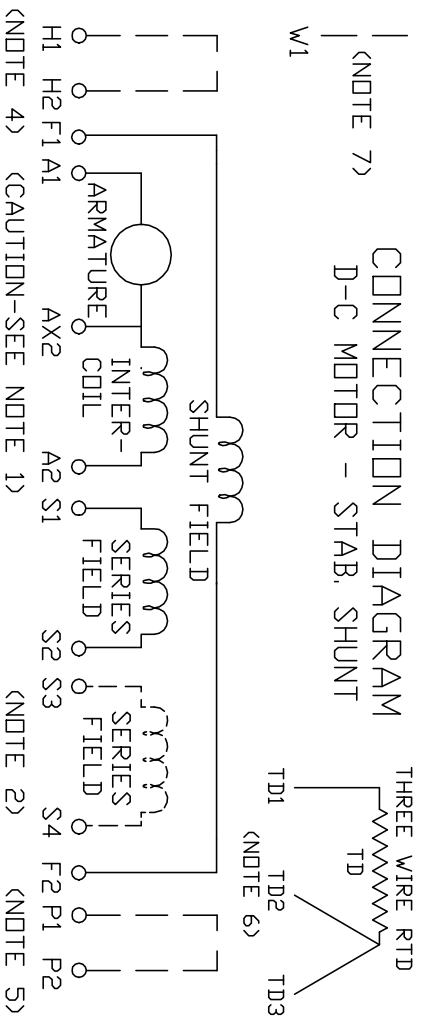
BALDOR

DIMENSION SHEET

SH 1 of 1

406770-001

CONNECTION DIAGRAM D-C MOTOR - STAB. SHUNT



ARMATURE AND FIELD EXTERNAL CONNECTIONS

WARNING- SEE NOTE 8 FOR GROUNDING INSTRUCTIONS



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.O. NO. _____

CUSTOMER RELIANCE

S.O. NO.

406770-001

BALDOR

D-C MOTOR CONNECTION DIAGRAM STAB. SHUNT

SH 1 of 1

REV. DESC: DELETED DUPLICATE WORDS FROM NOTE 8

REV. LTR: A

VERSION: 01

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BY: RAGTBM

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