

ABB BALDOR RELIANCE III

Customer information packet D2510R

10HP, 1750RPM, DC, 2113ATY, TEFC,

Specifications

Enclosure	TEFC
Frame	MC2113ATZ
Frame Material	Exposed Laminations
Output Power	10.000 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	F1
Overall Length	33.44 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.	G6241C A
Layout	609951-013
Eff. date	04-13-2015
CD Diagram	406770-001
Poles	00
Leads	
Proprietary	False
Created date	04-10-2015

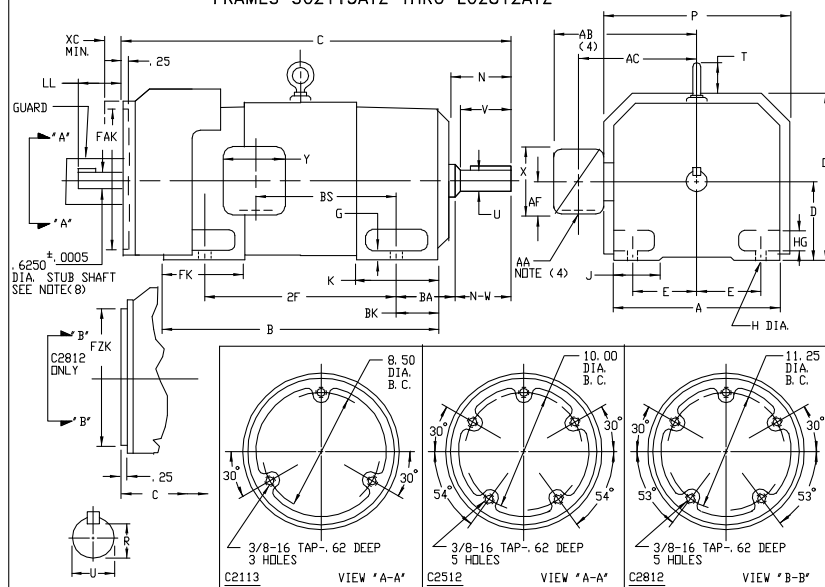
Nameplate

000613006HP									
CAT.NO.			SPEC NO.		T21S0303				
FR	MC 2113ATZ	HP	10		DUTY		CONT		
ENCL.	TEFC	RPM	1750/ 2300			S.F.	1.0		
ENCL MOD			VOLTS	240		INSUL			F
MAX SAFE SPEED	4500	AMPS	35.50			AMB.	40		
FIELD DATA		SER.NO.							
WINDING	STAB SHUNT		POWER CODE		C				
VOLTS	150		D.E. BRG.		50BC03J30X				
MAX AMPS @ 25 C	3.13		O.D.E. BRG.		45BC02J30X				
HOT AMPS	2.19/ 1.58		MIN. AMB.		0		TYPE		TR
BRUSH:419904051AB									

ENCLOSURE: TOTALLY ENCLOSED
MOUNTING: FOOT
METHOD OF DRIVE: COUPLED OR BELTED

COOLING: FAN COOLED
ACCESSORIES: PROVISION FOR
TACHOMETER MOUNTING
ONLY WHEN SPECIFIED

FRAMES SC2113ATZ THRU LC2812ATZ



DIMENSIONS ARE IN INCHES

FRAME	A	B(1)	E	G	H	HG	J	D	P	T	BA	K	FK	BK	FAK(6)	FZK(7)	XC
SC2113ATZ-LC2113ATZ	10.25	5.25	4.25	.44	.44	1.38	1.75	11.62	12.75	1.38	3.50	5.19	6.81	2.38	9.750	N/A	1.25
SC2812ATZ-LC2812ATZ	12.31	6.25	5.00	.50	.56	1.62	2.00	13.62	14.75	1.94	4.25	6.06	8.00	3.38	11.250	N/A	1.25
MC2812ATZ-LC2812ATZ	13.78	7.00	5.00	.62	.56	1.88	2.75	15.06	16.12	2.31	4.75	6.75	9.19	3.50	N/A	12.500	1.25

FRAME	C	B	BS	2 ^θ	DRIVE END SHOT AND KEY							WT. HS
					N	N	U	K	R	S	LGTH	
SG2113A72	32.9	22.9	11.38	18.00	4.0	7.51	8.75	3.50	.591	590	2.50	355
SG2113A73	33.44	23.73	12.62	18.00	4.0	7.51	8.75	3.50	.591	590	2.50	380
LC2113A73	35.06	25.38	14.25	18.00	4.0	7.51	8.75	3.50	.591	590	2.50	410
SG2151A73	35.94	26.56	15.36	20.00	4.0	5.4	25.125	4.00	.845	500	3.00	355
MC2151A73	37.44	26.56	15.36	20.00	4.0	5.4	25.125	4.00	.845	500	3.00	390
LC2151A77	38.94	28.06	16.50	20.00	4.0	5.4	25.125	4.00	.845	500	3.00	630
MC8181A77	41.62	29.94	14.25	22.00	5.0	7.75	3.75	4.50	.621	625	3.50	835
LC8181A77	43.98	31.29	16.50	22.00	5.0	4.75	3.75	4.50	.621	625	3.50	900

- (1) "B" DIMENSION WILL NOT BE EXCEEDED. SHIMS UP TO .03 INCHES IN THICKNESS ARE USUALLY REQUIRED FOR COUPLED OR GEARED MACHINES.
- (2) "E" VARIES-----, 0.000 - 0.001
- (3) "F" VARIES-----, 0.000 - 0.015
- (4) "G" VARIES-----, 0.000 - 0.015
- (5) "H" VARIES-----, 0.000 - 0.015
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- (24) "AA" VARIES-----, 0.000 - 0.015
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- (74) "BY" VARIES-----, 0.000 - 0.015
- (75) "BZ" VARIES-----, 0.000 - 0.015
- (76) "CA" VARIES-----, 0.000 - 0.015
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- (86) "CK" VARIES-----, 0.000 - 0.015
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- (93) "CR" VARIES-----, 0.000 - 0.015
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- (96) "CU" VARIES-----, 0.000 - 0.015
- (97) "CV" VARIES-----, 0.000 - 0.015
- (98) "CW" VARIES-----, 0.000 - 0.015
- (99) "CX" VARIES-----, 0.000 - 0.015
- (100) "CY" VARIES-----, 0.000 - 0.015
- (101) "CZ" VARIES-----, 0.000 - 0.015
- (102) "DA" VARIES-----, 0.000 - 0.015
- (103) "DB" VARIES-----, 0.000 - 0.015
- (104) "DC" VARIES-----, 0.000 - 0.015
- (105) "DD" VARIES-----, 0.000 - 0.015
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- (111) "DJ" VARIES-----, 0.000 - 0.015
- (112) "DK" VARIES-----, 0.000 - 0.015
- (113) "DL" VARIES-----, 0.000 - 0.015
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- (115) "DN" VARIES-----, 0.000 - 0.015
- (116) "DO" VARIES-----, 0.000 - 0.015
- (117) "DP" VARIES-----, 0.000 - 0.015
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- (119) "DR" VARIES-----, 0.000 - 0.015
- (120) "DS" VARIES-----, 0.000 - 0.015
- (121) "DT" VARIES-----, 0.000 - 0.015
- (122) "DU" VARIES-----, 0.000 - 0.015
- (123) "DV" VARIES-----, 0.000 - 0.015
- (124) "DW" VARIES-----, 0.000 - 0.015
- (125) "DX" VARIES-----, 0.000 - 0.015
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- (127) "DZ" VARIES-----, 0.000 - 0.015
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- (138) "EK" VARIES-----, 0.000 - 0.015
- (139) "EL" VARIES-----, 0.000 - 0.015
- (140) "EM" VARIES-----, 0.000 - 0.015
- (141) "EN" VARIES-----, 0.000 - 0.015
- (142) "EO" VARIES-----, 0.000 - 0.015
- (143) "EP" VARIES-----, 0.000 - 0.015
- (144) "EQ" VARIES-----, 0.000 - 0.015
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TACHOMETER	LU
BC-42	
BC-46	
RD-11	
RD-12	4.
RD-51	
RD-61	
RD-62	
RE-210	
M627, M628	
M727, M737	
M738	
DYNAPAR 74S	
RE-045	3. 8
SPY	1. 1
	SEE NOTES (9)

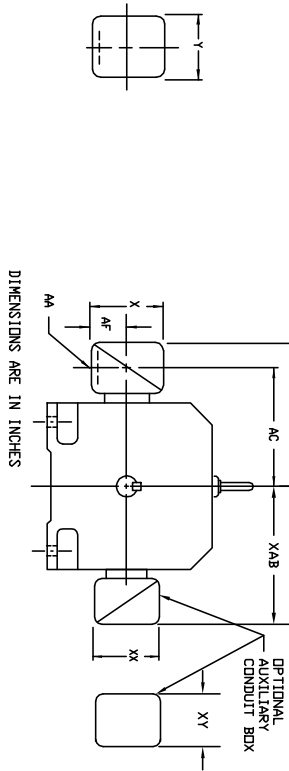
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

REV. DESC: LOADED TO BUS		
REV. LTR: -	VERSION: 00	TDR: 000000577407
FILE: \RGG\00015\557	REVISED: 11:02:01 01/26/2011	BY: CONNAS
MTL: -		

DIMENSION DRAWING SC2113ATZ - LC2812ATZ TEEC 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								
		AB	AC	AF	Y	NUMBER	AA(1)	AB	AC	AF	Y	NUMBER			
C2113ATZ	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
C2115ATZ	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
(2)	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
C2516ATZ	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
C2514ATZ	96	1-1/4 & 1-1/2	11.09	9.09	2.50	5.50	6.12	705029-1-R	2" & 2-1/2	12.22	9.47	3.19	7.00	7.62	705030-1-R
C2515ATZ	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
(2)	128	2"	14.03	10.53	4.25	8.44	7.25	705030-1-R	2"	14.47	11.22	4.25	8.44	7.25	705030-1-R
C2816ATZ	185	3"	14.47	11.22	4.25	8.44	7.25	705030-1-R	3"	15.91	11.84	5.38	10.56	9.00	705030-1-R
C2815ATZ	269	4"	15.91	11.84	5.38	10.56	9.00	705030-1-R	5"	18.72	13.47	7.00	12.75	15.00	705030-1-R

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	5.75	705028-2-S	1"	10.03	8.03	2.50	5.75	705028-2-T		
C2115ATZ	40	1"	10.03	8.03	2.50	5.00	705029-2-R	1-1/2	10.97	8.53	3.00	6.00	7.00	705029-2-R	
C2115ATZ	96	1-1/2	10.97	8.53	3.00	6.00	7.00	705029-2-S	2"	10.97	8.53	3.00	6.00	7.00	705029-2-R
C2516ATZ	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
C2514ATZ	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-R
C2515ATZ	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-R
C2515ATZ	208	2"	12.03	9.59	3.00	6.00	7.00	705029-2-S	2-1/2	13.72	9.97	3.62	7.88	9.25	705030-2-R
C2813ATZ	128	2"	12.78	10.34	3.62	7.88	9.25	75460-T	2"	14.47	10.72	3.62	7.88	9.25	75460-T
C2815ATZ	185	3"	14.47	10.72	3.62	7.88	9.25	76700-R	4"	15.78	11.59	4.12	9.50	10.50	76700-R
C2815ATZ	269	4"	15.78	11.59	4.12	9.50	10.50	76700-R	5" (4)	18.59	13.34	7.00	12.75	13.50	76700-S

CONDUIT BOX DIMENSIONS WITH TERMINAL BOARDS (IEC TYPE BOX)

CONDUIT BOX DIMENSIONS WITH TERMINAL BOXES (SEE LIST BELOW)									
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 & 706310-63G	706310-226-R
	800	17.48	12.75	6.20	14.39	--	14.39	706310-63-B & 706310-63G	706310-226-R
	200	12.60	10.59	3.76	8.82	--	8.82	706310-56-B & 706310-63G	706310-226-R
	400	18.27	13.54	6.20	14.39	--	14.39	706310-63-B & 706310-63G	706310-226-R
C280	800	18.27	13.54	6.20	14.39	--	14.39	706310-63-B & 706310-63G	706310-226-R
	1600	18.27	13.54	7.68	15.35	--	15.35	706310-63-C	706310-226-R

OPTIONAL 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
C250	8.44	4.25	602007-26-A	C250	11.88	8.00	706310-3-B
C280	9.12	4.25	602007-26-A	C280	12.62	8.00	706310-3-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"/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

