

ABB BALDOR RELIANCE III

Customer information packet D2507R

7.50HP, 1750RPM, DC, 2113ATY, TEFC,

Specifications

Enclosure	TEFC
Frame	SC2113ATZ
Frame Material	Exposed Laminations
Output Power	7.500 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	32.19 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.	G6313A A
Layout	609951-013
Eff. date	04-13-2015
CD Diagram	406770-001
Poles	00
Leads	
Proprietary	False
Created date	04-10-2015

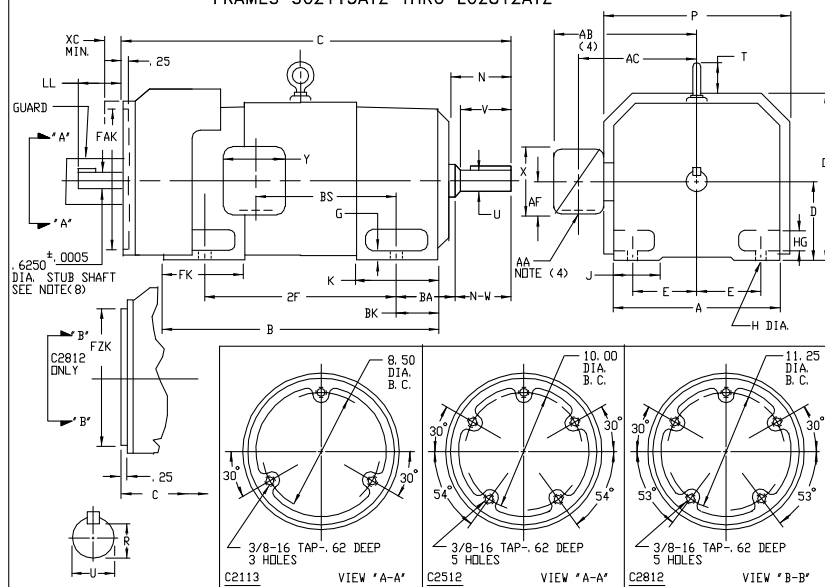
Nameplate

000613006HP									
CAT.NO.		SPEC NO.	T21S0301						
FR	SC 2113ATZ	HP	7.5	DUTY		CONT			
ENCL.	TEFC	RPM	1750/ 2300		S.F.	1.0			
ENCL MOD		VOLTS	240		INSUL			F	
MAX SAFE SPEED	4500	AMPS	27.00		AMB.		40		
FIELD DATA		SER.NO.							
WINDING	STAB SHUNT	POWER CODE	C						
VOLTS	150	D.E. BRG.	50BC03J30X						
MAX AMPS @ 25 C	3.25	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 ^o	DRIVE END START AND KEY							WT. BS
					N	N - W	U(2)	V	R(2)	SD	L(2)	
SC2111A77	32.9	22.50	11.38	18.00	4.00	3.75	1.875	3.50	1.91	590	2.50	355
SC2111A77	33.44	23.5	12.62	18.00	4.00	3.75	1.875	3.50	1.91	590	2.50	380
LC2111A77	35.06	25.38	14.25	18.00	4.00	3.75	1.875	3.50	1.91	590	2.50	410
SC2515A77	35.94	25.06	12.06	20.00	4.50	4.25	2.125	4.00	1.845	590	3.00	355
MC2515A77	37.44	26.56	13.56	20.00	4.50	4.25	2.125	4.00	1.845	590	3.00	390
LC2515A77	38.94	28.06	15.06	20.00	4.50	4.25	2.125	4.00	1.845	590	3.00	630
MC8181A77	41.62	29.94	14.25	22.00	5.00	4.75	2.375	4.50	2.021	625	3.50	835
LC8181A77	43.62	31.94	16.50	22.00	5.00	4.75	2.375	4.50	2.021	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) "A" VARIES +.000 - .001
- (3) "R" VARIES +.000 - .015
- (4) TERMINAL BOX VARIATION WITH H.P. FOR DIMENSIONS "AA", "AB", "AC", "AF", "X" AND "Y". SEE DRAWING NUMBER 609599-1.
- (5) WALLS OR OBSTRUCTIONS MUST NOT ENCRDACH AIR INLET SPACE "XC".
- (6) "FAK" VARIES +.005 - .006---FACE RUNOUT AND ECCENTRICITY .007 MAX. I.I.R. .001 MAX. R.I.R. .001 MAX. R.I.R. .001 MAX. R.I.R.
- (7) STUB SHAFT SPECIFIED ONLY WHEN SPECIFIED. KEY SIZE .188 X .188 X 1.0
- (8) FOR R-.045 OR SPIV PROVISIONS ON "C2B12" ADD 1.00 TO "L" DIMENSION.
- (9) 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.
- (10) MIN. WENT IN 1.5% OF MAXIMUM RATED HORSEPOWER. SEE DRAWING 609599-1 FOR NECESSARIES.
- (11) IF MOUNTING CLEARANCE IS REQUIRED, CONSULT FACTORY.

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)

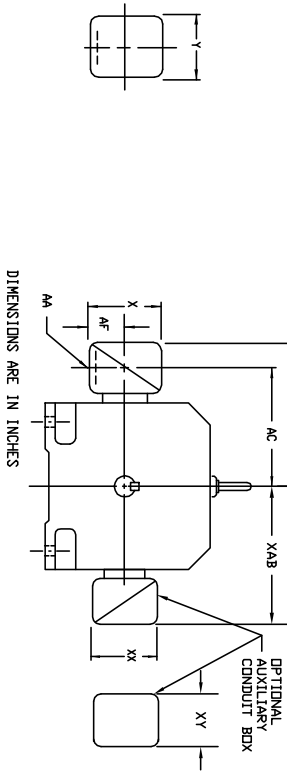
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

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,TEFC,FOOT MTG

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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

FRAME SIZE	MAX. AMPS	STANDARD SIZE						STEEL TERMINAL BOX DIMENSIONS						ONE SIZE LARGER					
		AK(1)	AB	AC	AF	X	Y	NUMBER	AK(1)	AB	AC	AF	X	Y	NUMBER	AK(1)	AB	AC	AF
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	1-1/4 & 1-1/2	10.03	8.03	2.50
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" & 2-1/2	11.16	8.41	3.19
(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	2" & 2-1/2	11.16	8.41	3.19
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	1-1/4 & 1-1/2	11.09	9.09	2.50
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	2" & 2-1/2	12.22	9.47	3.19
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" & 2-1/2	12.22	9.47	3.19
(2)	128	2"	14.03	10.53	4.25	8.44	7.25	74874-R	3"	14.47	11.22	4.25	8.44	7.25	74874-R	3"	14.47	11.22	4.25
C2816ATZ	185	3"	14.47	11.22	4.25	8.44	7.25	74874-24-R	3"	15.91	11.84	5.38	10.56	9.00	706308-3-R	3"	15.91	11.84	5.38
C2815ATZ	269	4"	15.91	11.84	5.38	10.56	9.00	706308-3-R	5" (4)	18.72	13.47	7.00	12.75	15.00	706589-1-C	5" (4)	18.72	13.47	7.00

FRAME SIZE	MAX. AMPS	STANDARD SIZE						CAST IRON TERMINAL BOX DIMENSIONS						ONE SIZE LARGER					
		AK(3)	AB	AC	AF	X	Y	NUMBER	AK(3)	AB	AC	AF	X	Y	NUMBER	AK(3)	AB	AC	AF
C2113ATZ	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-T	1-1/2	10.97	8.53	3.00
C2115ATZ	40	1"	10.03	8.03	2.50	5.00	5.75	705028-2-T	1-1/2	10.97	8.53	3.00	5.00	5.75	705029-2-R	2"	12.66	8.91	3.62
C2115ATZ	96	1-1/2	10.97	8.53	3.00	6.00	7.00	705029-2-R	2-1/2	12.66	8.91	3.62	7.88	9.25	705030-2-R	3"	14.47	10.72	3.62
(2)	208	2"	12.78	10.34	3.00	6.00	7.00	75460-T	3"	14.47	10.72	3.62	7.88	9.25	705030-2-R	3"	14.47	10.72	3.62
C2516ATZ	18	3/4	11.09	9.09	2.50	5.00	5.75	705028-2-S	1"	11.09	9.09	2.50	5.00	5.75	705028-2-T	1-1/2	12.03	9.59	3.00
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	5.00	5.75	705029-2-R	2"	12.03	9.59	3.00
C2515ATZ	96	1-1/2	12.03	9.59	3.00	6.00	7.00	705029-2-R	2-1/2	13.72	9.97	3.62	7.88	9.25	705030-2-R	3"	14.47	10.72	3.62
C2515ATZ	208	2"	12.78	10.34	3.00	6.00	7.00	75460-T	3"	14.47	10.72	3.62	7.88	9.25	705030-2-R	3"	14.47	10.72	3.62
C2813ATZ	185	3"	14.47	10.72	3.62	7.88	9.25	76700-8R	3"	15.78	11.59	4.12	9.50	10.50	76700-8R	5" (4)	18.59	13.34	7.00
C2815ATZ	269	4"	15.78	11.59	4.12	9.50	10.50	76700-8R	5" (4)	18.59	13.34	7.00	12.75	15.00	76870-S	5" (4)	18.59	13.34	7.00

CONDUIT BOX DIMENSIONS WITH TERMINAL BOARDS (IEC TYPE BOX)

FRAME SIZE	AMPS	STANDARD SIZE						OPTIONAL AUXILIARY CONDUIT BOX DIMENSIONS (MAXIMUM)					
		AB	AC	AF	X	AA	Y	FRAME SIZE	AB	AC	AF	X	Y
C210	100	10.71	8.98	2.72	7.48	---	7.48	C210	10.86	8.00	8.00	8.00	706310-3-B
	200	11.66	9.25	3.35	8.82	---	8.82	C250	11.88	8.00	8.00	8.00	706310-3-B
	100	11.30	9.57	2.72	7.48	---	7.48	C280	12.62	8.00	8.00	8.00	706310-3-B
C250	200	11.85	9.84	3.35	8.82	---	8.82						
	400	17.48	12.75	6.20	14.39	---	14.39						
	800	17.48	12.75	6.20	14.39	---	14.39						
	200	12.60	10.59	3.76	8.82	---	8.82						
	400	18.27	13.54	6.20	14.39	---	14.39						
	800	18.27	13.54	6.20	14.39	---	14.39						
C280	1600	18.27	13.54	7.68	15.35	---	15.35						

- (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 Y/P/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	VERSION: 01	TDR: 000000816512
REV. LTR: A		
FILE: \RGG\00021\153		REVISED: 03: 09: 09 09/06/2013
MTL: -		BY: RGGWT

BALDOR

DIMENSION SHEET

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609959-001

