

ABB BALDOR RELIANCE III

Customer information packet

D5515R

15HP, 1750RPM, DC, 2512ATZ, TEFC,

Specifications

Enclosure	TEFC
Frame	SC2512ATZ
Frame Material	Exposed Laminations
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	CUST SUPPLIED/PROVISIONS
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	35.94 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.	G6144B A
Layout	609951-013
Eff. date	04-13-2015
CD Diagram	406770-002
Poles	00
Leads	
Proprietary	False
Created date	04-10-2015

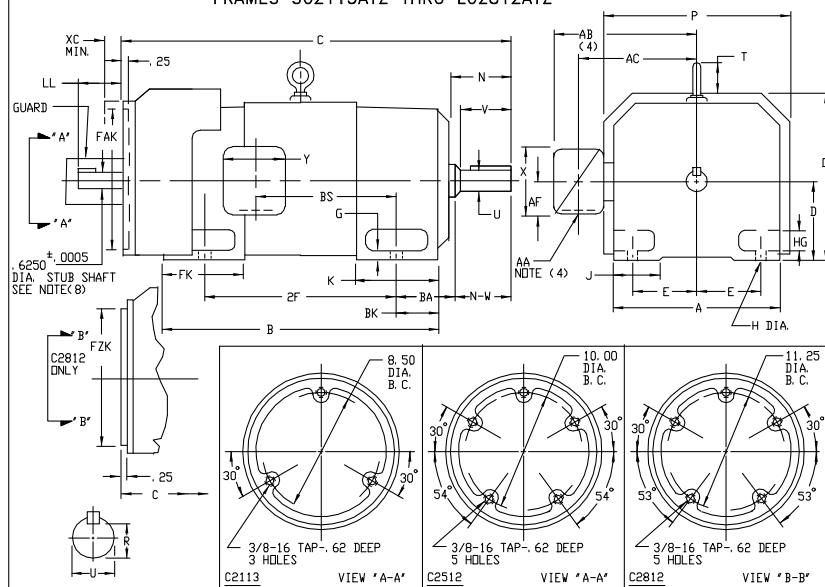
Nameplate

000613006HP									
CAT.NO.		SPEC NO.	T25S0302						
FR	SC 2512ATZ	HP	15	DUTY	CONT				
ENCL.	TEFC	RPM	1750/ 2300		S.F.	1.0			
ENCL MOD		VOLTS	500	INSUL		F			
MAX SAFE SPEED	4500	AMPS	25.60	AMB.	40				
	FIELD DATA	SER.NO.							
WINDING	STAB SHUNT	POWER CODE	C						
VOLTS	300	D.E. BRG.	60BC03J30X						
MAX AMPS @ 25 C	1.71	O.D.E. BRG.	50BC02J30X						
HOT AMPS	1.20/ .81	MIN. AMB.	0	TYPE	TR				
	BRUSH:419904051AB; FLD. DATA								
	FOR HIGH VOLTS; FIELD VOLTS				150/300				

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
SC2512ATZ-LC2512ATZ	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	5.50	.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	2F	DRIVE END SHOT AND KEY							WT. BS
					N	N-W	UK2	Y	RC3	SD	LGTH	
SC2113A72	31.29	22.50	11.38	18.00	4.00	3.75	1.875	3.50	591	590	2.50	355
SC2113A72	33.44	23.75	12.62	18.00	4.00	3.75	1.875	3.50	591	590	2.50	380
LC2113A72	35.06	25.38	14.25	18.00	4.00	3.75	1.875	3.50	591	590	2.50	410
SC2113A72	35.94	26.50	12.06	20.00	4.50	2.52	1.260	4.00	845	590	3.00	555
SC2512A72	37.44	26.56	13.56	20.00	4.50	2.52	1.260	4.00	845	590	3.00	590
LC2512A72	38.94	28.06	15.06	20.00	4.50	2.52	1.260	4.00	845	590	3.00	630
MC2812A72	41.62	29.94	14.25	22.00	5.00	4.75	2.375	4.50	502	621	3.50	835
LC2812A72	43.98	32.19	16.50	22.00	5.00	4.75	2.375	4.50	502	621	3.50	900

- (1) "D" DIMENSION WILL NOT BE EXCEEDED. SHIMS UP TO .03 INCHES IN THICKNESS ARE USUALLY REQUIRED FOR COUPLED OR GEAR MACHINES.
- (2) "U" VARIES-----, 0.00 - .001
- (3) "V" VARIES-----, 0.00 - .001
- (4) TERMINAL "AA" VARIES WITH "P" FOR DIMENSIONS "AA", "AB", "AC", "AF", "X" AND "Y". SEE DRAWING NUMBER 609595-1.
- (5) WALLS OR OBSTRUCTIONS MUST NOT ENCRUCH ON AIR INLET SPACE "XC".
- (6) "FAK" VARIES +.005 - .000-----FACE ROUNDT AND ECCENTRICITY .007 MAX. T.I.R. .001 MAX. B.O.D. TO BE SPECIFIED FOR LEAD OUTLET AT 1.00 TO "LL" DIMENSION.
- (7) SUB SHAFT SUPPLIED ONLY WHEN SPECIFIED. KEY SIZE .188 X .188 X 1.00
- (8) FOR RE-045 OR 5PY PROVISIONS ON "C8212" ADD 1.00 TO "LL" DIMENSION.
- (9) "B" BOX BE LOCATED FOR LEAD OUTLET AT 1.00 TO "LL" DIMENSION.
- (10) TERMINAL BOX LOCATED ON OPPOSITE SIDE WHEN F-2, F-4, W-4, W-5, W-7, OR C-1 MOUNTING IS SPECIFIED. BOX LOCATED ON TOP WHEN SPECIFIED.
- (11) WEIGHT MAY BE OBTAINED FROM WEIGHTS AND DIMENSIONS TABLES AND ACCESSORIES. FOR MOUNTING CLEARANCE DETAILS ARE 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.

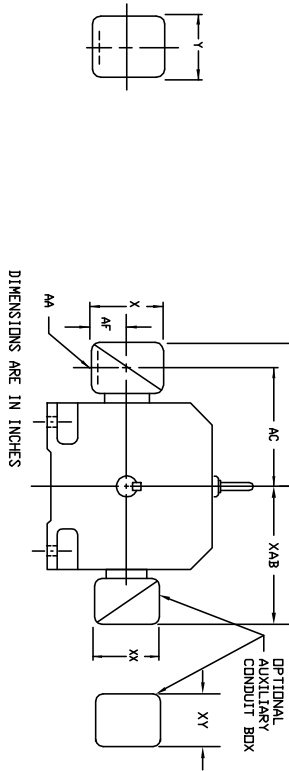
REV. DESC: LOADED TO BUS		
REV. LTR: -	VERSION: 00	TDR: 000000577407
FILE: \RGG\00015\557	REVISED: 11:02:01 01/26/2011	BY: CONNAS
MTL: -		

BALDOR

DIMENSION DRAWING,SC2113ATZ – LC2812ATZ,TEFC,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	7.05028-1-R	1-1/4 & 1-1/2	10.03	8.03	2.50	5.50	6.12	7.05029-1-R
C2115ATZ	96	1-1/4 & 1-1/2	10.03	8.03	2.50	5.50	6.12	7.05029-1-R	2" & 2-1/2	11.16	8.41	3.19	7.00	7.62	7.05030-1-R
(2)	208	2" & 2-1/2	11.16	8.41	3.19	7.00	7.62	7.05030-1-R	2" & 2-1/2	11.16	8.41	3.19	7.00	7.62	7.05030-1-R
C2513ATZ	40	3/4 & 1"	10.03	8.53	1.94	4.38	5.00	7.05028-1-R	1-1/4 & 1-1/2	11.09	9.09	2.50	5.50	6.12	7.05029-1-R
C2515ATZ	96	1-1/4 & 1-1/2	11.09	9.09	2.50	5.50	6.12	7.05029-1-R	2" & 2-1/2	12.22	9.47	3.19	7.00	7.62	7.05030-1-R
(2)	208	2" & 2-1/2	12.22	9.47	3.19	7.00	7.62	7.05030-1-R	2" & 2-1/2	12.22	9.47	3.19	7.00	7.62	7.05030-1-R
C2813ATZ	188	2"	14.03	10.53	4.25	8.44	7.25	7.0674-R	3"	14.47	11.22	4.25	8.44	7.25	7.0674-2-R
C2815ATZ	188	3"	14.47	11.22	4.25	8.44	7.25	7.0674-2-R	4"	15.91	11.84	5.38	10.56	9.00	7.06306-3-R
(2)	269	4"	15.91	11.84	5.38	10.56	9.00	7.06308-3-R	5" (4)	18.72	13.47	7.00	12.75	15.00	7.06355-1-C

CAST IRON TERMINAL BOX DIMENSIONS															
FRAME SIZE	MAX. AMPS	STANDARD SIZE					ONE SIZE LARGER								
		AK(3)	AB	AC	AF	X	Y	NUMBER	AK(3)	AB	AC	AF	X	Y	NUMBER
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
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	6.00	7.00	705029-2-R
C2115ATZ	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
C2513ATZ	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
C2515ATZ	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-R	2"	12.03	9.59	3.00	6.00	7.00	705029-2-S
C2813ATZ	188	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	706020-2-R
C2815ATZ	269	3"	12.78	10.34	3.00	6.00	7.00	75460-T	3"	14.47	10.72	3.62	7.88	9.25	76700-R
C2815ATZ	188	3"	14.47	10.72	3.62	7.88	9.25	76700-R	4"	15.78	11.59	4.12	9.50	10.50	76708-R
C2815ATZ	269	4"	15.78	11.59	4.12	9.50	10.50	76708-R	5" (4)	18.59	13.34	5.17	12.75	15.00	76870-S

CONDUIT BOX DIMENSIONS WITH TERMINAL BOARDS (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	7.06310-56-A	7.06310-225-R
	200	11.66	9.25	3.35	8.82	--	8.82	7.06310-56-B	7.06310-226-R
	100	11.30	9.57	2.72	7.48	--	7.48	7.06310-56-A	7.06310-225-R
C250	200	11.85	9.84	3.35	8.82	--	8.82	7.06310-56-B	7.06310-226-R
	400	17.48	12.75	6.20	14.39	--	14.39	7.06310-63-B & 7.06310-63G	7.06310-63-B & 7.06310-63G
	800	17.48	12.75	6.20	14.39	--	14.39	7.06310-63-B & 7.06310-63G	7.06310-63-B & 7.06310-63G
C280	200	12.60	10.59	3.76	8.82	--	8.82	7.06310-56-B	7.06310-226-R
	400	18.27	13.54	6.20	14.39	--	14.39	7.06310-63-B & 7.06310-63G	7.06310-63-B & 7.06310-63G
	800	18.27	13.54	6.20	14.39	--	14.39	7.06310-63-B & 7.06310-63G	7.06310-63-B & 7.06310-63G
	1600	18.27	13.54	7.68	15.35	--	15.35	7.06310-63-C	7.06310-63-C

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) 1/4" CONDUIT.
(2) RACEWAYS PROVIDED WITH DOUBLE KNUCKLE.
(3) 1/4" 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"/"Y" 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

