

ABB BALDOR RELIANCE III

Customer information packet

D50100R-BV

100HP, 1750RPM, DC, 2515ATZ, DPG-FV,

Specifications

Enclosure	DP
Frame	C2515ATZ
Frame Material	Exposed Laminations
Output Power	100.000 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	STR. SHUNT
Frame Prefix	C
Heater Indicator	No Heater
Lifting Lugs	Standard Lifting Lugs
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	42.44 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Slinger Indicator	No Slinger

Part Detail

Revision	C
Type	DC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	G7959C B
Layout	616012-001
Eff. date	10-15-2015
CD Diagram	406770-006
Poles	00
Leads	
Proprietary	False
Created date	04-22-2015

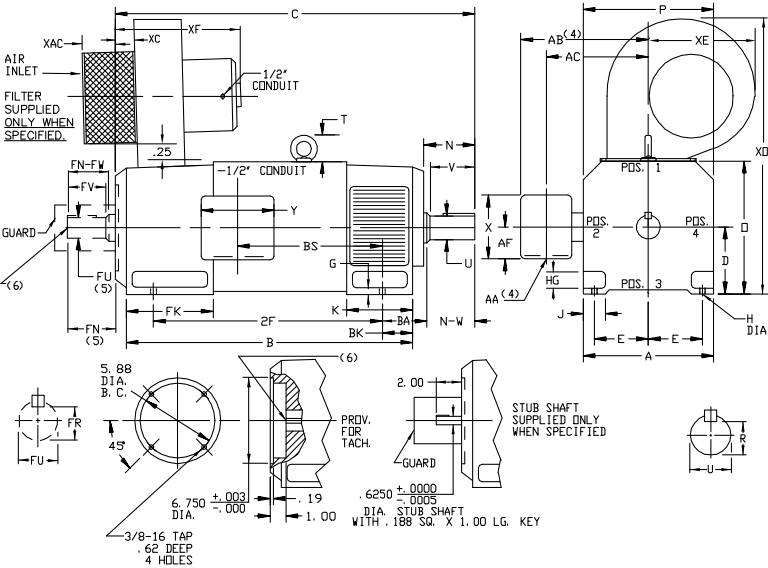
Nameplate

000613006HP									
CAT.NO.	D50100R-BV	SPEC NO.	T25T2350						
FR	C2515ATZ	HP	100			DUTY	CONT		
ENCL.	DP	RPM	1750/2000			S.F.	1.0		
ENCL MOD	FORCE VENT	VOLTS	500			INSUL	F		
MAX SAFE SPEED		AMPS	167.00			AMB.	40		
FIELD DATA		SER.NO.							
WINDING	STR. SHUNT	POWER CODE	C						
VOLTS	300	D.E. BRG.	65BC03J30X						
MAX AMPS @ 25 C	6.70	O.D.E. BRG.	50BC02J30X						
HOT AMPS	4.84/4.07	MIN. AMB.	0			TYPE	TR		
	BRUSH:419904051AC								

616012-001

INDUSTRIAL DIRECT CURRENT MOTORS
AND GENERATORS - RPM III

ENCLOSURE: DRIP-PROOF FULLY-GUARDED, COOLING: FORCE VENTILATED
SPLASHPROOF WITH INTEGRAL
MOUNTING: FOOT BLOWER AND MOTOR
METHOD OF DRIVE: COUPLED OR BELTED ACCESSORIES: PROVISION FOR
TACHOMETER MOUNTING
FRAMES SC2512ATZ THRU UC2515ATZ ONLY WHEN SPECIFIED



DIMENSIONS ARE IN INCHES

FRAME	XAC	XC	XE	XF	XO
SC2512ATZ-UC2515ATZ	7.25	3.00	9.50	16.75	24.75

FRAME	A	DK1	E	G	H	HG	J	Q	P	T	BA	K	FK	BK
SC2512ATZ-UC2515ATZ	12.31	6.25	5.00	.50	.56	1.62	2.00	12.50	12.44	2.44	4.25	6.06	8.00	3.00

FRAME	METHOD OF DRIVE	C(7)	B	BS	2F	N	N-W	UK(2)	V	RC(3)	SQ	LGTH	FN	FN-FW	FUK(2)	FV	FR(3)	SQ	LGTH	WT.
SC2512ATZ	COUPLED	31.69	25.06	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	535
MC2512ATZ	COUPLED	33.19	26.56	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	570
LC2512ATZ	COUPLED	34.69	28.06	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	610
C2514ATZ	COUPLED	38.44	31.31	18.31	25.00	5.00	4.75	2.375	4.50	2.021	.625	3.50	4.00	3.75	1.875	3.50	1.591	.500	2.50	695
C2515ATZ	COUPLED	42.44	35.31	22.31	28.00	5.00	4.75	2.375	4.50	2.021	.625	3.50	4.00	3.75	1.875	3.50	1.591	.500	2.50	805
UC2514ATZ	BELTED	38.44	31.31	18.31	25.00	5.00	4.75	2.375	4.50	2.021	.625	3.50	4.00	3.75	1.875	3.50	1.591	.500	2.50	695
UC2515ATZ	BELTED	42.44	35.31	22.31	28.00	5.00	4.75	2.375	4.50	2.021	.625	3.50	4.00	3.75	1.875	3.50	1.591	.500	2.50	805

- (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 SHAFT SUPPLIED ONLY WHEN SPECIFIED.
(6) MOTOR SHAFT TAPPED FOR SCREW-IN STUB SHAFT.
(7) WHEN THE MOTOR APPLICATION DOES NOT REQUIRE THE USE OF DPG DRIVE END, ADD .25 TO .75" 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, V-5, W-7, OR C-1 MOUNTING IS SPECIFIED. BOX LOCATED ON TOP WHEN SPECIFIED. BLOWER ASSEMBLY CAN BE LOCATED AT POSITIONS 1, 2, OR 4, EXCEPT 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: 000000578087
REV. LTR: -	REVISED: 11:06:09 01/28/2011	BY: CONNAS
FILE: \RGG\00015\979		
MTL: -		

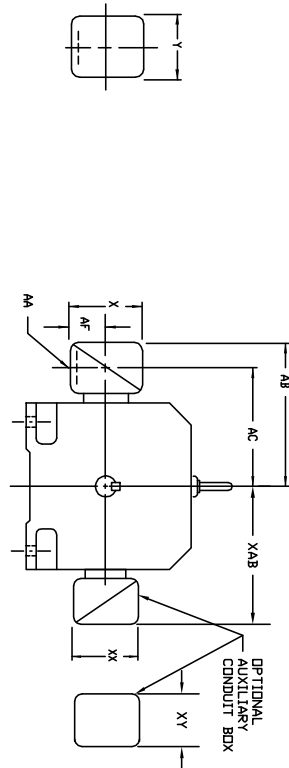
BALDOR
DIMENSION DRAWING, SC2512ATZ - UC2515ATZ, DPG, FOOT MTG
SH 1 of 1

616012-001

**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

FRAME SIZE	MAX. AMPS	STANDARD SIZE					STEEL TERNAL BOX DIMENSIONS					ONE SIZE LARGER					PART NUMBER	
		AA(1)	AB	AC	AD	AE	AA(1)	AB	AC	AD	AE	AA(1)	AB	AC	AD	AE		
C2113A17	96	4/3 & 1/4	1-1/2	8.97	7.47	1.94	4.38	5.00	7.05	929-1-R	1-1/4 & 1-1/2	10.03	8.03	2.50	5.50	6.12	7.05	929-1-R
C2113B12	96	1-1/4 & 1-1/2	10.03	8.03	2.50	5.50	6.12	7.05	929-1-R	2" & 2-1/2	11.16	8.41	3.19	7.00	7.62	7.05	930-1-R	
C2113C12	208	2" & 2-1/2	11.16	8.41	3.19	7.00	7.62	7.05	930-1-R	2" & 2-1/2	11.16	8.41	3.19	7.00	7.62	7.05	930-1-R	
C2114A17	40	3/4 & 1"	10.03	8.53	1.94	4.38	5.00	7.05	929-1-R	1-1/4 & 1-1/2	11.09	9.09	2.50	5.50	6.12	7.05	929-1-R	
C2114B12	96	1-1/4 & 1-1/2	11.09	9.09	2.50	5.50	6.12	7.05	929-1-R	2" & 2-1/2	12.82	9.47	3.19	7.00	7.62	7.05	930-1-R	
C2114C12	208	2" & 2-1/2	12.82	9.47	3.19	7.00	7.62	7.05	930-1-R	2" & 2-1/2	12.82	9.47	3.19	7.00	7.62	7.05	930-1-R	
C2115A17	128	1/4	10.03	10.53	4.25	8.44	7.25	7.48	7-4-R	3"	14.47	11.82	4.25	8.44	7.25	7.48	7-4-R	
C2115B12	185	3"	14.47	11.82	4.25	8.44	7.25	7.48	7-4-R	3"	15.91	11.82	4.25	8.44	7.25	7.48	7-4-R	
C2115C12	263	4"	15.91	11.84	5.38	10.56	9.00	7.00	7.00	930-8-3-R	5" (4)	18.72	13.47	7.00	12.75	11.50	7.00	930-8-1-C

CAST IRON TERNAL BOX DIMENSIONS															
FRAME SIZE		STANDARD SIZE						ONE SIZE LARGER							
MAX. AMPS	AC(3)	AB	AC	AF	X	Y	PART NUMBER	AC(3)	AB	AC	AF	X	Y	PART NUMBER	
18	3/4	10.03	8.03	2.50	5.00	5.75	70508-2-S	1"	10.03	8.03	2.50	5.00	5.75	70508-2-R	
23119A7	40	1"	10.03	8.03	2.50	5.00	70508-2-T	1-1/2	10.97	8.53	3.00	6.00	7.00	70509-2-R	
23119A7	96	1-1/2	10.97	8.53	3.00	6.00	70509-2-R	2"	10.97	8.53	3.00	6.00	7.00	70509-2-S	
23119A7	208	2"	10.97	8.53	3.00	6.00	70509-2-S	2-1/2	12.66	8.51	3.62	7.88	9.25	70509-2-R	
2512A12	18	3/4	11.09	9.09	2.50	5.00	70508-2-T	1"	11.09	9.09	2.50	5.00	5.75	70508-2-R	
2512A12	40	1"	11.09	9.09	2.50	5.00	70508-2-T	1-1/2	12.03	9.59	3.00	6.00	7.00	70509-2-R	
2512A12	96	1-1/2	12.03	9.59	3.00	6.00	70509-2-S	2-1/2	13.72	9.57	3.62	7.88	9.25	70509-2-R	
2512A12	208	2"	12.03	9.59	3.00	6.00	7.00	70509-2-S	2"	12.03	9.59	3.00	6.00	7.00	70509-2-R
25812A12	128	2"	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
25812A12	168	3"	14.47	10.72	3.62	7.88	9.25	76700-R	3"	15.78	11.59	4.12	8.50	10.50	76700-R
25812A12	265	4"	15.78	11.59	4.12	8.50	10.50	76700-R	5" (4)	18.59	13.34	5.17	10.75	13.50	76870-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	706310-226-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	706310-453-B & 706310-636	
	800	17.48	12.75	6.20	14.39	---	14.39	706310-63-B & 706310-636	706310-453-B & 706310-636	
C280	200	12.60	10.99	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	706310-453-B & 706310-636	
	800	18.27	13.54	6.20	14.39	---	14.39	706310-63-B & 706310-636	706310-453-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	7.98	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 609593-2
FOR "LL" TYPE TERMINAL BOX DIMENSIONS SEE 609593-3.

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
FILE: \RGG\00021\153		REVISED: 03:09:09 09/06/2013
MTL: -		BY: RGGWT

BALDOR

DIMENSION SHEET

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