

ABB BALDOR RELIANCE III

Customer information packet

D5150R-BV

50HP, 1150RPM, DC, 2514ATZ, DPG-FV,

Specifications

Enclosure	DP
Frame	C2514ATZ
Frame Material	Exposed Laminations
Output Power	50.000 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	F2
Overall Length	38.44 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.	G8382A B
Layout	616012-001
Eff. date	10-21-2015
CD Diagram	406770-006
Poles	00
Leads	
Proprietary	False
Created date	04-22-2015

Nameplate

000613006HP									
CAT.NO.		SPEC NO.	T25T1359						
FR	C2514ATZ	HP	50	DUTY		CONT			
ENCL.	DP	RPM	1150/1935		S.F.	1.0			
ENCL MOD	FORCE VENT	VOLTS	500		INSUL		F		
MAX SAFE SPEED		AMPS	87.00		AMB.		40		
	FIELD DATA	SER.NO.							
WINDING	STR. SHUNT	POWER CODE	C						
VOLTS	300	D.E. BRG.	65BC03J30X						
MAX AMPS @ 25 C	4.06	O.D.E. BRG.	50BC02J30X						
HOT AMPS	3.11/1.55	MIN. AMB.	0		TYPE		TR		
	BRUSH:419904051AC								

Parts List

Part number	Description	Quantity
SA299491	SA T25T1359	1.000 ea
AA016275	AA T25T1359	1.000 ea
000692000FP	NP, WARNING LIFT INSTRUCTIONS	1.000 ea
000692000FS	WARNING LABEL	1.000 ea
033775004EA	DRSCR #6-1/4 304 S.S.	8.000 ea
000613006HP	NAMEPLATE - RPM III D-C MOTOR W/CSA LOGO	1.000 ea
036600008AB	MFWSH M6 PLATED	1.000 ea
419905008A	HARDWARE	8.000 ea
036000020KB	MHHCS M10-1.5X20MM PLTD.	4.000 ea
036610010AB	MHSLW M10 PLATED	4.000 ea
036501008AB	KPNUT M6-1.0 ZINCPLTED	8.000 ea
419905003A	FLAT WASHER ROCKER RPM III RGG	4.000 ea
036000012HB	HHCS M6X12MM LONG PLATED	4.000 ea
419904-51AC	BRUSH EXTRUDER DUTY C	4.000 ea
706372011RE	ROCKR METRIC	1.000 ea
706364051RCA	BRHLD METRIC SPRING CHG.	4.000 ea
801926102C	BRKT,ODE,C250	1.000 ea
801927102A	BRKT,DE,C250	1.000 ea
004824015A	GREASE POLYREX EM	0.200 lb
036000055JB	HHCS,DE CAP	2.000 ea
400638001AD	WAVEN - 400 (Customer number 43699)	1.000 ea
418150003A	GREASE FITTING CAP	2.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
035000001BB	GREASE FTG,GRS.IN	1.000 ea
036100070KA	METRIC HSHCS	3.000 ea
034693001AB	PPLG - G508- use 034692001AB	1.000 ea
034693001AB	PPLG - G508- use 034692001AB	1.000 ea
036500010AB	METRIC NUT M10-1.5PLTD400	4.000 ea
609830005AAV	TBOLT .375" X 19.50"	4.000 ea
036500010AB	METRIC NUT M10-1.5PLTD400	4.000 ea
610490001AH	.75HP,3450//2850RPM,3PH,60//50HZ,56C,351	1.000 ea

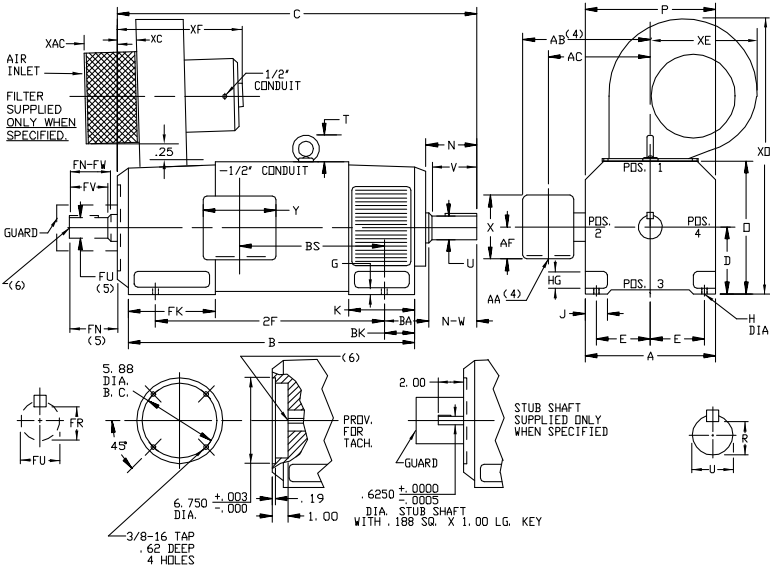
415000103G	TLUG	1.000 ea
036000012JB	M8-1.25 X 12MM HXHDC	3.000 ea
611965001A	WHEEL, BLOWER	1.000 ea
417733001D	GASKT	2.000 ea
611917002C	GASKT	1.000 ea
036000020JB	HHCS M8-1.25X20L PLTD-250	4.000 ea
032018006CK	HHCS 3/8-16X3/4L PLATED 411409	4.000 ea
000613006NT	NAME PLATE IEC	1.000 ea
036600009AB	METRIC FLWASH M8 PLATED	3.000 ea
418018074A	GROUND LABEL G100 METRIC 160 D.C.	1.000 ea
708528004C	HOUSING, BLOWER	1.000 ea
410978010C	FLANGE, INLET BLOWER HSG.	1.000 ea
410978019A	SCREEN, INLET FLANGE	1.000 ea
036620009AB	M8 EXTERNAL LK WASHER	1.000 ea
034017014AB	LCKW 3/8 STD. PLATED	4.000 ea
418010006A	CAST,MPLATE,180-280,EX1,7BY	1.000 ea
032018004CK	HHCS 3/8-16X1/2L PLATED	4.000 ea
422919027	HHCVR KIT, C250, ODE, SOLID	1.000 ea
422919029	HHCVR KIT, C250, DE, LOUVERED	1.000 ea
422919029	HHCVR KIT, C250, DE, LOUVERED	1.000 ea
422919038	HHCVR KIT C250 ODE SOLID	1.000 ea
706320005A	CONDUIT BOX	1.000 ea
075453000A	CBOXC, PAINTED 250-280	1.000 ea
065564000B	GASK 250-280	1.000 ea
422919038	HHCVR KIT C250 ODE SOLID	1.000 ea
422919038	HHCVR KIT C250 ODE SOLID	1.000 ea
036000012HB	HHCS M6X12MM LONG PLATED	2.000 ea
036000045JB	M8-1.25 X 45MM HXHCS	4.000 ea
406770006	C/D TAG STRAIGHT SHUNT	1.000 ea
706305026A	GUARD,SHAFT	1.000 ea
034180028HA	KEY 5/8X5/8X3-1/2L-445	1.000 ea
000640000P	TAG WINDING THERMOST	1.000 ea
000692000NG	LABEL ;NP 4POLE METRIC LABEL	1.000 ea
004824007K	SPECIAL PAINT	0.100 ea

418018116	WARNING PLATE	1.000 ea
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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 "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, 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 ASSEMBLY AND TERMINAL BOX CAN NOT BE LOCATED AT THE SAME POSITION. MOTOR WEIGHT MAY VARY 15% FOR NON-STANDARD RATINGS AND/OR ACCESSORIES. IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.

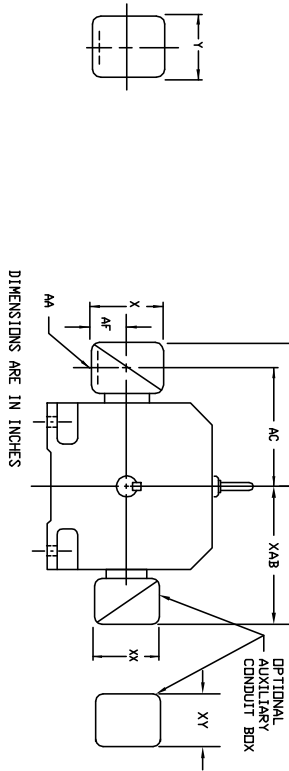
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

REV. DESC: LOADED TO BUS	VERSION: 00	TDR: 000000578087
REV. LTR: -	FILE: \RGG\00015\979	REVISD: 11:06:09 01/28/2011
MTL: -	BY: CONNAS	

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

616012-001

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					PART NUMBER			
		AA(1)	AB	AC	AF	X	Y	AA(1)	AB	AC	AF		X	Y	
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
C2514ATZ	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
(2)	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
C2815ATZ	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	74874-24-R
C2815ATZ	195	3"	14.47	11.22	4.25	8.44	7.25	74874-24-R	4"	15.91	11.84	5.38	10.56	9.00	706308-3-R
(2)	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

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-R
C2113ATZ	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"	12.66	8.91	3.62	7.88	9.25	705030-2-R
(2)	208	2"	10.97	8.53	3.00	6.00	7.00	705029-2-S	2-1/2	11.09	9.09	2.50	5.00	5.75	705028-2-T
C2512ATZ	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
C2512ATZ	40	1"	11.09	9.09	2.50	5.00	5.75	705028-2-S	1-1/2	12.03	9.59	3.00	6.00	7.00	705029-2-R
C2514ATZ	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
C2514ATZ	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
C2812ATZ	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	76708-R
C2812ATZ	195	3"	14.47	10.72	3.62	7.88	9.25	76708-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	7.00	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	706310-56-A	706310-225-R
	200	11.66	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 & 706310-63G	706310-63-B & 706310-63G
	800	17.48	12.75	6.20	14.39	--	14.39	706310-63-B & 706310-63G	706310-63-B & 706310-63G
	200	12.60	10.59	3.76	8.82	--	8.82	706310-56-B	706310-226-R
C280	400	18.27	13.54	6.20	14.39	--	14.39	706310-63-B & 706310-63G	706310-63-B & 706310-63G
	800	18.27	13.54	6.20	14.39	--	14.39	706310-63-B & 706310-63G	706310-63-B & 706310-63G
	1600	18.27	13.54	7.68	15.35	--	15.35	706310-63-C	706310-63-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) 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
TERMINAL BOX 76870-S AND 76870-98 EXTENDS BELOW MOTOR FEET
DR C-1 MOUNTING IS SPECIFIED. BOX LOCATED ON 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	VERSION: 01	TDR: 000000816512
REV. LTR: A		
FILE: \RGG\00021\153		REVISED: 03: 09: 09 09/06/2013
MTL: -		BY: RGGWT

BALDOR

DIMENSION SHEET

SH 1 of 1

609959-001

Page 9 of 9