

ABB BALDOR RELIANCE III

Customer information packet

D50150RE-BV

150HP, 1750RPM, DC, 2815ATZ, DPG-FV,

Specifications

Enclosure	DP
Frame	C2815ATZ
Frame Material	Exposed Laminations
Output Power	150.000 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	47.00 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.	G9776A A
Layout	616022-001
Eff. date	04-13-2015
CD Diagram	406770-006
Poles	00
Leads	
Proprietary	False
Created date	04-09-2015

Nameplate

000613006HP									
CAT.NO.		SPEC NO.	T28T1352						
FR	C 2815ATZ	HP	150	DUTY	CONT				
ENCL.	DP	RPM	1750/ 2000	S.F.	1.00				
ENCL MOD	FORCE VENT	VOLTS	500	INSUL		F			
MAX SAFE SPEED	3400	AMPS	250.00	AMB.	40				
	FIELD DATA	SER.NO.							
WINDING	STR. SHUNT	POWER CODE	C						
VOLTS	300	D.E. BRG.	75BC02J30X						
MAX AMPS @ 25 C	10.64	O.D.E. BRG.	55BC02J30X						
HOT AMPS	7.18/ 6.25	MIN. AMB.	0	TYPE	TR				
	BRUSH:419904051AF								

Parts List

Part number	Description	Quantity
SA297054	SA T28T1352	1.000 ea
AA016105	AA T28T1352	1.000 ea
000613006HP	NAMEPLATE - RPM III D-C MOTOR W/CSA LOGO	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
406770006	C/D TAG STRAIGHT SHUNT	1.000 ea
036000020HB	HHCS M6-1.0X20MM PLATED	4.000 ea
036000020KB	MHHCS M10-1.5X20MM PLTD.	4.000 ea
036501008AB	KPNUT M6-1.0 ZINCPLTED	8.000 ea
036610010AB	MHSLW M10 PLATED	4.000 ea
419904-51AF	BRUSH METRIC C	12.000 ea
419905003A	FLAT WASHER ROCKER RPM III RGG	4.000 ea
419905008A	HARDWARE	8.000 ea
706364051RL	BRHLD METRIC SPRING CHG.	4.000 ea
706372011RF	ROCKER	1.000 ea
004824015A	GREASE POLYREX EM	0.300 lb
034693001AB	PPLG - G508- use 034692001AB	1.000 ea
034693001AB	PPLG - G508- use 034692001AB	1.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
035000001BB	GREASE FTG,GRS.IN	1.000 ea
036000075KB	HHCS M10 75MM ZINCPLAT	3.000 ea
036100060JA	M8-1.25 X 60MM HXSOCHDCS	3.000 ea
036500011AB	METRIC NUT M12-1.75 PLT.	4.000 ea
036500011AB	METRIC NUT M12-1.75 PLT.	4.000 ea
418150003A	GREASE FITTING CAP	2.000 ea
419912001A	WWSHR	1.000 ea
609830005AAY	TBOLT .500" X 25.88"	4.000 ea
801928102D	BRKT,ODE,C280	1.000 ea
801929102A	BRKT,DE,C280	1.000 ea
000613006NT	NAME PLATE IEC	1.000 ea

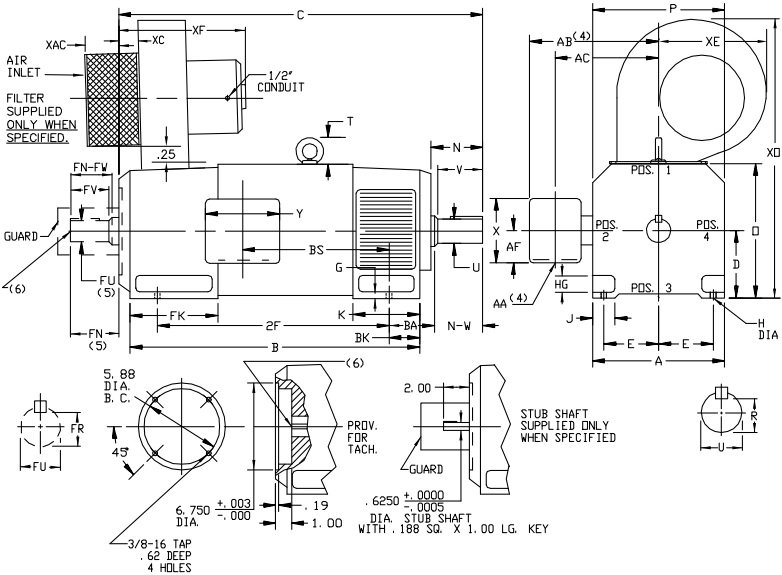
032018004CK	HHCS 3/8-16X1/2L PLATED	4.000 ea
032018006CK	HHCS 3/8-16X3/4L PLATED 411409	4.000 ea
034017014AB	LCKW 3/8 STD. PLATED	4.000 ea
036000012HB	HHCS M6X12MM LONG PLATED	4.000 ea
036000012JB	M8-1.25 X 12MM HXHDC	3.000 ea
036000016KB	HHCSM10-1.5X16MM PLTD-280	2.000 ea
036000020JB	HHCS M8-1.25X20L PLTD-250	4.000 ea
036000045JB	M8-1.25 X 45MM HXHCS	4.000 ea
036600009AB	METRIC FLWASH M8 PLATED	3.000 ea
036620009AB	M8 EXTERNAL LK WASHER	1.000 ea
036620010AB	M10 EXT. TOOTH LK WASHER	2.000 ea
077176001A	CBOX Cover 360-400	1.000 ea
402731001A	GASK 360-440	1.000 ea
410978010E	INLET FLGE	1.000 ea
410978019A	SCREEN, INLET FLANGE	1.000 ea
415000003E	T/LUG #4AWG-1/0AWG W/HOLE FOR .375 BOLT	1.000 ea
417733004E	GASKT	2.000 ea
418014004A	609185004cDPT/BOX	1.000 ea
418018074A	GROUND LABEL G100 METRIC 160 D.C.	3.000 ea
422919053	HHCVK KIT, C280, DE, XT	1.000 ea
422919055	HHCVK KIT, C280, DE, LOUVERED	1.000 ea
422919055	HHCVK KIT, C280, DE, LOUVERED	1.000 ea
422919064	HHCVK KIT, C280, ODE, SOLID	1.000 ea
422919064	HHCVK KIT, C280, ODE, SOLID	1.000 ea
610490001AF	24M 2P TEFC VER 56C SUPER E	1.000 ea
611917002E	GASKT	1.000 ea
611965001A	WHEEL, BLOWER	1.000 ea
706305026A	GUARD,SHAFT	1.000 ea
706320016A	CONDUIT BOX	1.000 ea
708528004A	BLOWER HOUSING	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
034180028HA	KEY 5/8X5/8X3-1/2L-445	1.000 ea

418018116	WARNING PLATE	1.000 ea
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616022-001

INDUSTRIAL DIRECT CURRENT MOTORS
AND GENERATORS - RPM III

ENCLOSURE: DRIP-PROOF FULLY-GUARDED, COOLING: FORCE VENTILATED
WITH INTEGRAL
SPLASHPROOF BLOWER AND MOTOR
MOUNTING: FOOT ACCESSORIES: PROVISION FOR
TACHOMETER MOUNTING
FRAMES MC2812ATZ THRU UC2815ATZ ONLY WHEN SPECIFIED



DIMENSIONS ARE IN INCHES

FRAME	XAC	XC	XE	XF	XO
MC2812ATZ-UC2815ATZ	6.38	4.00	9.25	19.00	26.25

FRAME	A	DK(1)	E	G	H	HG	J	O	P	T	BA	K	FK	BK	WT.
MC2812ATZ-UC2815ATZ	13.78	7.00	5.50	.62	.56	1.88	2.75	14.00	13.94	2.80	4.75	6.75	9.19	3.50	

FRAME	METHOD DRIVE	C(7)	B	BS	2F	N	N-W	UK(2)	V	RK(3)	SQ	LGTH.	FN	FN-FW	FK(2)	FV	FR(3)	SQ	LGTH.	WT.
MC2812ATZ	COUPLED	37.38	29.94	14.25	22.00	5.00	4.75	2.375	4.50	2.021	.625	3.50	4.50	4.25	2.125	4.00	1.845	.500	3.00	810
UMC2812ATZ	BELTED	37.88	29.94	14.25	22.00	5.50	5.25	2.625	5.00	2.275	.625	4.00	4.50	4.25	2.125	4.00	1.845	.500	3.00	815
LC2812ATZ	COUPLED	39.62	32.19	16.50	22.00	5.00	4.75	2.375	4.50	2.021	.625	3.50	4.50	4.25	2.125	4.00	1.845	.500	3.00	885
ULC2812ATZ	BELTED	40.12	32.19	16.50	22.00	5.50	5.25	2.625	5.00	2.275	.625	4.00	4.50	4.25	2.125	4.00	1.845	.500	3.00	890
C2813ATZ	COUPLED	41.25	33.81	18.12	25.00	5.00	4.75	2.375	4.50	2.021	.625	3.50	4.50	4.25	2.125	4.00	1.845	.500	3.00	940
UC2813ATZ	BELTED	41.75	33.81	18.12	25.00	5.50	5.25	2.625	5.00	2.275	.625	4.00	4.50	4.25	2.125	4.00	1.845	.500	3.00	945
C2815ATZ	COUPLED	46.75	39.31	23.62	32.00	5.00	4.75	2.375	4.50	2.021	.625	3.50	4.50	4.25	2.125	4.00	1.845	.500	3.00	1125
UC2815ATZ	BELTED	47.25	39.31	23.62	32.00	5.50	5.25	2.625	5.00	2.275	.625	4.00	4.50	4.25	2.125	4.00	1.845	.500	3.00	1130

- (1) "B" 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. 60959-1, "X/P" 60959-2, MILL 60959-3)
(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 COP 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, W-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 BLOWER 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		
REV. LTR: -	VERSION: 00	TDR: 000000578087
FILE: \RGG\00016\005	REVISED: 01:13:50 01/28/2011	BY: CONNAS
MTL: -		

BALDOR

DIMENSION DRAWING, MC2812ATZ - UC2815ATZ, DPP, FOOT MTG

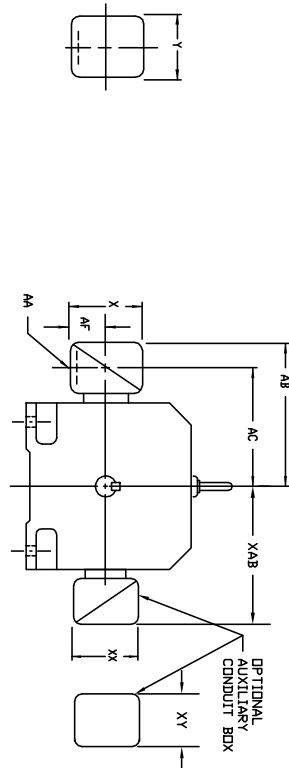
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616022-001

**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

STEEL I-CHANNEL BOX DIMENSIONS															
FRAME SIZE	MAX. AREA	STANDARD SIZE					PART		END SIZE LARGER					PART NUMBER	
		AB	AC	AF	Y	NUMBER	AA(1)	AB	AC	AF	Y				
C2119A7	40 3/4 x 1"	8.97	7.47	1.94	4.38	5.00	705028-1-R	1-1/4	11-1/2	10.03	8.03	2.50	5.50	6.12	705029-1-R
C2115A7	36 1-1/4 x 1-1/2	10.03	8.03	2.50	5.50	7.62	705030-1-R	2" & 2-1/2	11.16	8.41	3.19	7.00	7.62	705031-1-R	
C208 1/2	208 2" x 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	
C2012A7	40 3/4 x 1"	10.03	8.53	1.94	4.38	5.00	705028-1-R	1-1/4	11-1/2	11.09	9.09	2.50	5.50	6.12	705029-1-R
C2012A7	36 1-1/4 x 1-1/2	11.22	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	
C2015A7	208 2" x 2-1/2	12.82	9.47	3.19	7.00	7.62	705030-1-R	2" & 2-1/2	12.82	9.47	3.19	7.00	7.62	705030-1-R	
C2015A7	40 3/4 x 1"	14.03	10.53	4.25	8.44	7.55	74874-R	3"	14.47	11.22	4.25	8.44	7.55	74874-R	
C2015A7	36 1-1/4 x 1-1/2	15.85	11.82	4.25	8.44	7.55	74874-R	3"	15.91	11.84	4.25	8.44	7.55	74874-R	
C2015A7	208 2" x 2-1/2	15.91	11.84	4.25	8.44	7.55	74874-R	3"	15.91	11.84	4.25	8.44	7.55	74874-R	
C2015A7	40 3/4 x 1"	15.91	11.84	5.38	10.56	9.00	703038-3-R	5" (4)	18.72	13.47	7.00	12.75	15.00	703039-1-C	

CAST IRON TERMINAL BOX DIMENSIONS															
FRAME SIZE	MAX. AMPS	STANDARD SIZE					PART		ONE SIZE LARGER					PART	
		AB	AC	AF	X	Y	NUMBER	AB	AC	AF	X	Y	NUMBER		
C2113M12	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
C2113M17	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
C2115M12	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-T
C2512M12	208	2"	10.97	8.53	3.00	6.00	7.00	705029-2-S	2-1/2	12.66	8.91	3.62	7.88	9.25	705030-2-R
C2512M17	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
C2513M12	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-S
C2513M17	96	1-1/2	12.03	9.59	3.00	6.00	7.00	705029-2-T	2"	12.03	9.59	3.00	6.00	7.00	705029-2-T
C2515M12	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-S
C2812M12	128	3"	12.78	10.34	3.00	6.00	7.00	756001-R	3"	14.47	10.72	3.62	7.88	9.25	767001-R
C2812M17	165	3"	14.47	10.72	3.62	7.88	9.25	767001-R	4"	15.78	11.59	4.12	9.50	10.50	767001-R
C2815M12	365	4"	15.78	11.59	4.12	9.50	10.50	767001-R	5" (4)	18.59	13.34	4.75	13.50	15.00	768701-S

CONDUIT BOX DIMENSIONS WITH TERMINAL BORDERS (IEC TYPE BOX)										
STANDARD SIZE										
FRAME SIZE	AMP	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	706310-63-B & 706310-636	
	800	17.48	12.75	6.20	14.39	--	14.39	706310-63-B & 706310-636	706310-63-B & 706310-636	
	200	12.60	10.39	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 & 706310-636	706310-63-B & 706310-636	
	800	18.27	13.54	6.20	14.39	--	14.39	706310-63-B & 706310-636	706310-63-B & 706310-636	
	1600	18.27	13.54	7.68	15.35	--	15.35	706310-63-C	706310-63-C	

OPTICAL AUXILIARY CONDUIT BOX DIMENSIONS (MM/INCH)					
FRAME SIZE	XAB	XX	XY	CONDUIT SIZE	PART NUMBER
C310	7.89	4.25	4.25	602007-26-A	10.88 8.00 8.00 706310-3-B
C350	8.14	4.25	6.00	602007-26-A	11.88 8.00 8.00 706310-3-B
C380	9.12	4.25	4.25	602007-26-A	12.62 8.00 8.00 706310-3-B

- (1) "AA CONDUIT."
(2) "AA TERMINAL BOX FOR C2113A17Z AND C2512A17Z."
(3) "AA PIPE TAP."
(4) TERMINAL BOX 76870-05 AND 76870-0R EXTENDS BELOW MOTOR FEET. TERMINAL BOX CAN BE ROTATED FOR LEAD OUTLET AT TOP, SLOES 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" TERMINAL BOX DIMENSIONS SEE 609935-3. FOR "Y" TERMINAL BOX DIMENSIONS SEE 609935-3. FOR "Z" TERMINAL BOX DIMENSIONS SEE 609935-3.

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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