

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								

Parts List

Part number	Description	Quantity
SA299494	SA T25T2350	1.000 ea
AA016278	AA T25T2350	1.000 ea
000692000FS	WARNING LABEL	1.000 ea
000692000FP	NP, WARNING LIFT INSTRUCTIONS	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	8.000 ea
706372011RD	ROCKR METRIC	1.000 ea
706364-51G	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
609830005AAW	TBOLT .375" X 23.50"	4.000 ea
036500010AB	METRIC NUT M10-1.5PLTD400	4.000 ea
610490001AH	.75HP,3450//2850RPM,3PH,60//50HZ,56C,351	1.000 ea

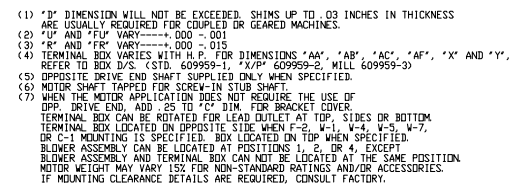
415000003E	T/LUG #4AWG-1/0AWG W/HOLE FOR .375 BOLT	1.000 ea
036000012JB	M8-1.25 X 12MM HXHDC	3.000 ea
611965001A	WHEEL, BLOWER	1.000 ea
417733001B	GASKT	2.000 ea
611917002C	GASKT	1.000 ea
032018006CK	HHCS 3/8-16X3/4L PLATED 411409	4.000 ea
000613006NT	NAME PLATE IEC	1.000 ea
036600009AB	METRIC FLWASH 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
036000020JB	HHCS M8-1.25X20L PLTD-250	4.000 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
706320007A	CONDUIT BOX / PRIMED	1.000 ea
075455000A	CBOXC, PAINTED 250-280	1.000 ea
065591000B	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

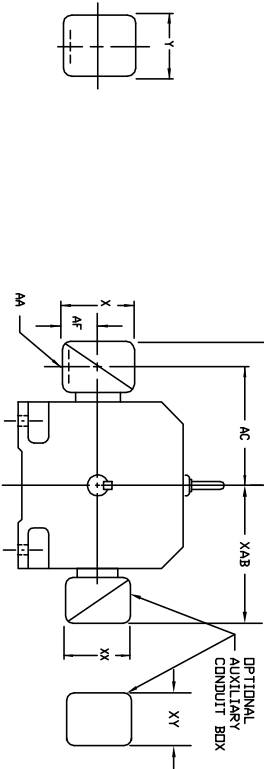
FRAMES SC2512ATZ THRU UC2515ATZ



BALDOR
 DIMENSION DRAWING,SC2512ATZ – UC2515ATZ,DPP,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

FRAME SIZE	MAX. AMPS	STANDARD SIZE						STEEL TERMINAL BOX DIMENSIONS												ONE SIZE LARGER					
		AA(1)	AB	AC	AF	X	Y	PART NUMBER						AA(1)	AB	AC	AF	X	Y	PART NUMBER					
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					
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					
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					
C2816ATZ	128	2"	14.03	10.53	4.23	8.44	7.23	74874-R						3"	14.47	11.22	4.23	8.44	7.23	74874-R					
C2815ATZ	195	3"	14.47	11.22	4.25	8.44	7.23	74874-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						PART NUMBER								
		AK(3)	AB	AC	AF	X	Y	AK(3)	AB	AC	AF	X	Y									
C2113ATZ	18	AK(3)	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	6.00	7.00	705029-2-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	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	2-1/2	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	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
C2512ATZ	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	6.00	7.00	705029-2-R
C2512ATZ	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	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"	13.72	9.97	3.62	7.88	9.25	705030-2-R	2-1/2	13.72	9.97	3.62	7.88	9.25	705030-2-R
C2515ATZ	128	2"	12.03	9.59	3.00	6.00	7.00	705029-2-S	1"	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
C2812ATZ	185	3"	14.47	10.72	3.62	7.88	9.25	76700-R	4"	15.78	11.59	4.12	9.50	10.50	76700-R	5" (4)	18.59	13.34	7.00	12.75	15.00	76870-S
C2813ATZ	269	4"	15.78	11.59	4.12	9.50	10.50	76700-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	9.23	3.33	8.82	--	8.82	706310-56-B	706310-225-R
	100	11.30	9.57	2.72	7.48	--	7.48	706310-56-A	706310-225-R
	200	11.85	9.84	3.33	8.82	--	8.82	706310-56-B	706310-225-R
C250	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	706310-225-R
	400	18.27	13.54	6.20	14.39	--	14.39	706310-63-B & 706310-63G	706310-63-B & 706310-63G
C280	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 DIA.
(4) TERMINAL BOX 76870-S AND 76870-98 EXTENDS BELOW MOTOR FEET
TERMINAL BOX DIA MEASURED FROM END OF DUCT TO TOP OF DUCT
TERMINAL BOX DIA MEASURED FROM END OF DUCT TO TOP OF DUCT
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

