

ABB BALDOR RELIANCE III

Customer information packet

D5075R-BV

C2515ATZ, 75, 1750RPM, 500, 300, , F1

Specifications

Armature Voltage	500 V
Base Speed	1750 rpm
Enclosure	DP
Field Voltage	300 V
Frame	C2515ATZ
Output Power	75.000 HP
Agency Approvals	CCSA US
Ambient Temperature	40 °C
Armature Current	123.0 a
Base Indicator	Rigid
Drip Cover	No Drip Cover
Duty Rating	CONT
Feedback Device	NO FEEDBACK
Field Winding Type	STR. SHUNT
Frame Prefix	C
Heater Indicator	No Heater
Insulation Class	F
Lifting Lugs	Standard Lifting Lugs
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	41.69 IN
Service Factor	1.00
Shaft Diameter	2.374 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Slinger Indicator	No Slinger
Thermal Device - Bearing	None

Part Detail

Revision	-
Type	DC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	G8418A B
Layout	616012-001
Eff. date	11-08-2019
CD Diagram	406770-006
Poles	00
Leads	
Proprietary	False
Created date	11-07-2019

Nameplate

000613006HP									
CAT.NO.		SPEC NO.	T25T2352						
FR	C2515ATZ	HP	75	DUTY	CONT				
ENCL.	DP	RPM	1750/2100		S.F.	1.0			
ENCL MOD	FORCE VENT	VOLTS	500	INSUL		F			
MAX SAFE SPEED	04500	AMPS	123.00	AMB.	40				
	FIELD DATA	SER.NO.							
WINDING	STR. SHUNT	POWER CODE	C						
VOLTS	300	D.E. BRG.	65BC03J30X						
MAX AMPS @ 25 C	6.39	O.D.E. BRG.	50BC02J30X						
HOT AMPS	4.61/3.50	MIN. AMB.	0	TYPE	TR				
	BRUSH:419904051AC								

616012-001

**INDUSTRIAL DIRECT CURRENT MOTORS
AND GENERATORS – RPM III**

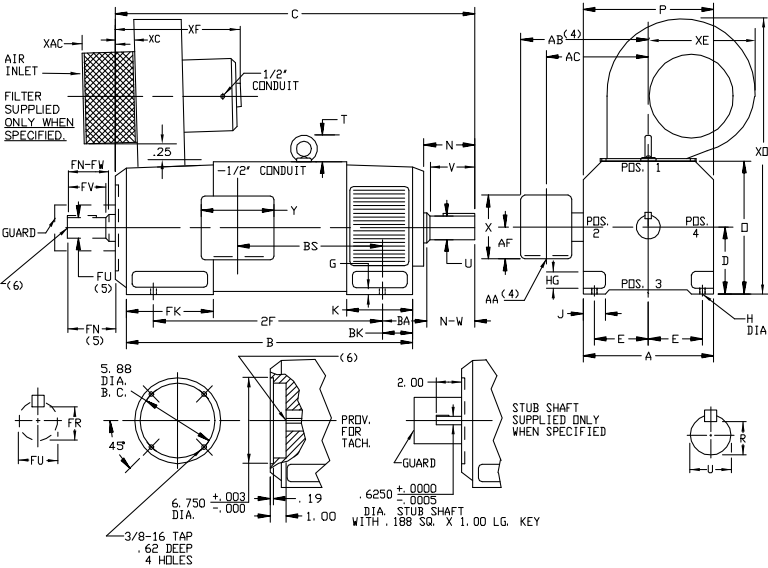
ENCLOSURE: DRIP-PROOF FULLY-GUARDED,
SPLASHPROOF
MOUNTING: FOOT
METHOD OF DRIVE: COUPLED OR BELTED

COOLING: FORCE VENTILATED
WITH INTEGRAL
BLOWER AND MOTOR

ACCESSORIES: PROVISION FOR
TACHOMETER MOUNTING
ONLY WHEN SPECIFIED

FRAMES SC2512ATZ THRU UC2515ATZ

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 DPP, 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 WEIGHT MAY VARY 15% FOR NON-STANDARD RATINGS AND/OR ACCESSORIES. IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.

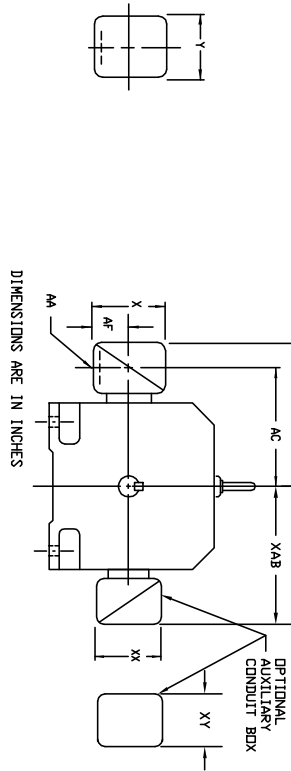
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

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, DPP, 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

FRAME SIZE	MAX. AMPS	STANDARD SIZE						STEEL TERMINAL BOX DIMENSIONS					
		AK(1)	AB	AC	AF	X	Y	NUMBER	AK(1)	AB	AC	AF	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
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
(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
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
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
C2515ATZ	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
(2)	128	2"	14.03	10.53	4.23	8.44	7.23	74874-R	2" & 2-1/2	14.47	11.22	4.23	8.44
C2816ATZ	185	3"	14.47	11.22	4.23	8.44	7.23	74874-24-R	3"	15.91	11.84	5.38	10.56
C2815ATZ	269	4"	15.91	11.84	5.38	10.56	9.00	700308-3-R	5" (4)	18.72	13.47	7.00	12.75

FRAME SIZE	MAX. AMPS	STANDARD SIZE						CAST IRON TERMINAL BOX DIMENSIONS					
		AK(3)	AB	AC	AF	X	Y	NUMBER	AK(3)	AB	AC	AF	Y
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
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
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
(2)	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
C2516ATZ	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
C2514ATZ	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
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
C2515ATZ	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
C2813ATZ	128	2"	12.78	10.34	3.00	6.00	7.00	75460-T	3"	14.47	10.72	3.62	7.88
C2815ATZ	185	3"	14.47	10.72	3.62	7.88	9.25	76700-R	4"	15.78	11.59	4.12	9.50
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

CONDUIT BOX DIMENSIONS WITH TERMINAL BOARDS (IEC TYPE BOX)

FRAME SIZE	AMPS	STANDARD SIZE						OPTIONAL AUXILIARY CONDUIT BOX DIMENSIONS (MAXIMUM)					
		AB	AC	AF	X	AA	Y	FRAME SIZE	XAB	XY	XY	PART NUMBER	PART NUMBER
C210	100	10.71	8.98	2.72	7.48	---	7.48	C210	10.88	8.00	8.00	706310-225-R	706310-225-R
	200	11.66	9.23	3.33	8.82	---	8.82	C210	11.88	8.00	8.00	706310-225-R	706310-225-R
	100	11.30	9.57	2.72	7.48	---	7.48	C250	11.88	8.00	8.00	706310-3-B	706310-3-B
C250	200	11.85	9.84	3.35	8.82	---	8.82	C250	12.62	8.00	8.00	706310-3-B	706310-3-B
	400	17.48	12.75	6.20	14.39	---	14.39	C280	12.62	8.00	8.00	706310-3-B	706310-3-B
	800	17.48	12.75	6.20	14.39	---	14.39						
	200	12.60	10.59	3.76	8.82	---	8.82						
	400	18.27	13.54	6.20	14.39	---	14.39						
	800	18.27	13.54	6.20	14.39	---	14.39						
C280	1600	18.27	13.54	7.68	15.35	---	15.35						

- (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
DR C-1 MOUNTING IS SPECIFIED. BOX LOCATED IN TOP WHEN SPECIFIED.
FOR "X"/P/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

