



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.	D50150RE-BV	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									

INDUSTRIAL DIRECT CURRENT MOTORS AND GENERATORS - RPM III

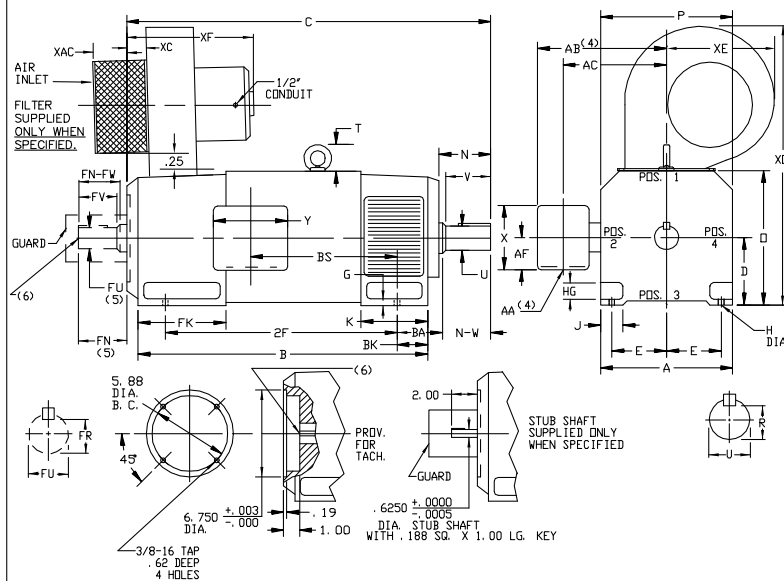
ENCLOSURE: DRIP-PROOF FULLY-GUARDED,

COOLING: FORCE VENTILATED
WITH INTEGRAL
BLOWER AND MOTOR

MOUNTING:FOOT

MOUNTING:FOOT

ACCESSORIES: PROVISION FOR
FRAMES MC2812ATZ THRU UC2815ATZ TACHOMETER MOUNTING
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	D(1)	E	G	H	HG	J	Q	P	T	BA	K	FK	BK					
MC2812ATZ-UC2815ATZ		13.78	7.00	5.50	6.42	.56	1.88	2.75	14.00	13.94	2.80	4.75	6.75	9.19	3.50					
FRAME	METHOD OF DRIVE	C(7)	B	BS	DRIVE END SHAFT AND KEY				OPPOSITE DRIVE END SHAFT AND KEY(S)				VT.							
			N	N-1	U	V	U	V	FN	FN-1	U	V	U	V						
MC2812ATZ	COUPLED	37.38	29.94	14.25	22.00	5.00	4.75	2.375	4.50	4.021	625	3.50	4.50	4.25	1.125	4.00	1.945	.500	3.000	1.10
UC2812ATZ	BELTED	37.88	94.94	14.25	22.00	5.00	5.25	2.625	5.00	2.275	625	4.00	4.50	4.25	1.125	4.00	1.945	.500	3.000	0.815
LC2812ATZ	COUPLED	39.32	32.19	16.50	22.00	5.00	4.75	2.375	4.50	4.021	625	3.50	4.50	4.25	1.125	4.00	1.945	.500	3.000	0.885
ULC2812ATZ	BELTED	40.12	32.19	16.50	22.00	5.00	5.25	2.625	5.00	2.275	625	4.00	4.50	4.25	1.125	4.00	1.845	.500	3.000	0.90
C2813ATZ	BELTED	41.25	33.81	18.12	25.00	5.00	4.75	2.375	4.50	4.021	625	3.50	4.50	4.25	1.125	4.00	1.845	.500	3.000	0.945
UC2813ATZ	BELTED	41.75	33.81	18.12	25.00	5.00	5.25	2.625	5.00	2.275	625	4.00	4.50	4.25	1.125	4.00	1.945	.500	3.000	0.945
C2815ATZ	BELTED	46.75	39.31	23.62	32.00	5.00	4.75	2.375	4.50	4.021	625	3.50	4.50	4.25	1.125	4.00	1.845	.500	3.000	1.125
UC2815ATZ	BELTED	47.25	39.31	23.62	32.00	5.00	5.25	2.625	5.00	2.275	625	4.00	4.50	4.25	1.125	4.00	1.845	.500	3.000	1.130

- (1) "D" DIMENSION WILL NOT EXCEED .50 INCHES IN THICKNESS
ARE USUALLY REQUIRED FOR COUPLED OR GEARED MACHINES.
- (2) "UP" AND "FT" VAR. = .000
- (3) "AB" AND "FR" VAR. = .000 - .015
- (4) "X" AND "Y" DIMENSIONS = "AB", "AB", "AB", "AF", "X" AND "Y".
REFER TO BOX D/S (GTD. 609995-9) "X" & "Y" DIMENSIONS = 161 609959-3
- (5) "Z" DIMENSION = .000
- (6) MOTOR SHAFT TAPPED FOR SCREW IN TOP SHAFT SPECIFIER.
- (7) WHEN THE MOTOR APPLICATION DOES NOT REQUIRE THE USE OF
DRIVE END, AND "S" TO "C" IN BRACKET, THE
TERMINAL BOX CAN BE ROTATED FOR LEAD OUTPUT AT TOP, SIDES OR BOTTOM.
TERMINAL BOX LOCATED ON TOP OF MOTOR, THE MOTOR IS
DR-C-1 MOUNTING IS SPECIFIED. BOX LOCATED ON TOP WHEN BOTTOM
TERMINAL BOX CAN BE LOCATED IN TOP OR BOTTOM POSITION.
BLINDER ASSEMBLY AND TERMINAL BOX CAN NOT BE LOCATED AT THE SAME POSITION.
MOTOR WEIGHT MAY VARY FOR DIFFERENT RANGES AND ACCESSORIES.
MOTOR CLEARANCE DETAILING 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

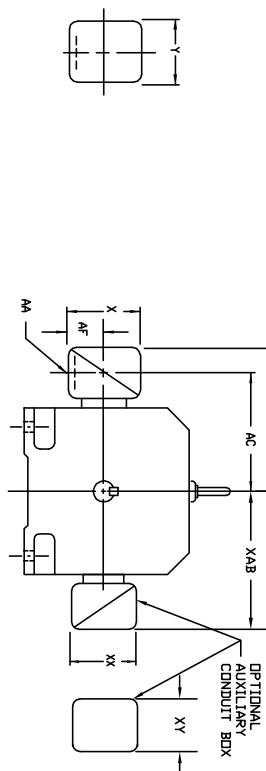
SH 1 of 1

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. APPS	STANDARD SIZE						PART NUMBER		ONE SIZE LARGER						PART NUMBER				
		AK(1)	AB	AC	AF	X	Y	AK(1)	AB	AC	AF	X	Y	AK(1)	AB	AC	AF	X	Y	
C21.9A1Z	36	4/3 & 1"	8.97	7.47	1.94	4.38	5.0	705029-1-R	1-1/4 & 1-1/2	10.03	8.03	2.50	5.50	6.12	705029-1-R					
C21.9A1Z	36	1-1/4 & 1-1/2	10.03	8.03	2.50	5.50	6.12	705030-1-R	2" & 2-1/2	11.16	8.41	3.19	7.00	7.62	705030-1-R					
C21.9A1Z (1B)	208	4" & 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					
C21.9A1Z	40	3/4 & 1"	10.03	8.53	1.94	4.38	5.0	705029-1-R	1-1/4 & 1-1/2	11.09	9.09	2.50	5.50	6.12	705029-1-R					
C21.9A1Z	36	1-1/4 & 1-1/2	11.09	9.09	2.50	5.50	6.12	705029-1-R	2" & 2-1/2	12.82	9.47	3.19	7.00	7.62	705030-1-R					
C21.9A1Z (2)	208	2" & 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					
C21.9A1Z	128	2"	14.03	10.53	4.25	8.44	7.25	74874-1-R		14.47	11.84	4.25	8.44	7.25	74874-2-R					
C21.9A1Z	185	3"	14.47	11.84	4.25	8.44	7.25	74874-2-R		15.91	13.47	4.25	8.44	7.25	74874-3-R					
C21.9A1Z	269	4"	15.91	13.47	4.25	8.44	7.25	74874-3-R		16.72	13.47	7.00	12.75	15.00	702656-1-C					

FRAME SIZE	MAX. AMPS	CAST IRON TERMINAL BOX DIMENSIONS															
		STANDARD SIZE							PART NUMBER		ONE SIZE LARGER						
		AM.3)	AB	AC	AF	X	Y		AM.3)	AB	AC	AF	X	Y			
C21.18A1Z	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		
C21.18A1Z	40	1"	10.03	8.03	2.50	5.00	5.75	705028-2-1	1 1/2	10.97	8.53	3.00	6.00	7.00	705029-2-R		
C21.18A1Z	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-S		
C21.18A1Z	208		10.97	8.53	3.00	6.00	7.00	705029-2-R	2 1/2	12.66	8.91	3.62	7.88	9.25	705030-2-R		
C21.18A1Z	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		
C21.18A1Z	40	1"	11.09	9.09	2.50	5.00	5.75	705028-2-1	1 1/2	12.03	9.59	3.00	6.00	7.00	705029-2-R		
C21.18A1Z	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		
C21.18A1Z	208		12.03	9.59	3.00	6.00	7.00	705029-2-R	2 1/2	13.72	9.97	3.62	7.88	9.25	705030-2-R		
C21.18A1Z	18	3"	14.47	10.72	3.00	6.00	7.00	767001-8	4"	14.47	10.72	3.62	7.88	9.25	767001-8		
C21.18A1Z	40	3"	14.47	10.72	3.62	7.88	9.25	767001-8	4"	14.47	10.72	3.62	7.88	9.25	767001-8		
C21.18A1Z	96	4"	15.78	11.59	4.12	9.50	10.50	767008-8R	5" (4)	15.78	11.59	4.12	9.50	10.50	767008-S		

CONDUIT BOX DIMENSIONS WITH TERMINAL BEARDS (IEC TYPE BOX)									
STANDARD SIZE									
FRAME SIZE	AMP	AB	AC	AE	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	100	11.85	9.84	3.35	8.82	--	8.82	706310-63-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
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	706310-63-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

FRAME SIZE	XAB	OPTIMAL		AUXILIARY CUBIT		BOX DIMENSIONS (MAXIMUM)		PART NUMBER
		XY	XY	NUMBER	FRAME SIZE	XAB	XY	
C210	7.38	4.25	4.25	602007-26-A	C210	10.88	8.00	706310-3-B
C250	8.44	4.25	4.25	602007-26-A	C250	11.88	8.00	706310-3-B
C280	9.12	4.25	4.25	602007-26-A	C280	12.62	8.00	706310-3-B

- (1) A/C CONDUNIT.
(2) STEEL TERMINAL BOX FOR C6213A17Z AND C6212A17Z FRAMES PROVIDED WITH DOUBLE KNOCKOUT.
(3) A/C PIPE TAP.
(4) TERMINAL BOX 76870-5 AND 76870-9 EXTENDS BELOW MOTOR FEET.
TERMINAL BOX CAN BE ROTATED FOR LEAD OUTLET AT TOP. SIZES DR BOTTOM TERMINAL BOX LOCATED ON OPPOSITE SIDE WHEN F-2, -W1, -V4, -V5, -V7, DR C-1 ADJUTING IS SPECIFIED. BOX LOCATED IN TOP WHEN F-1P TERMINAL BOX DIMENSIONS SEE 609395-3 FOR MILL TYPE TERMINAL BOX DIMENSIONS SEE 609395-3.

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

SH 1 of 1

406770-006			406770-006		
CONNECTION DIAGRAM D-C MOTOR - STRAIGHT SHUNT W1 <NOTE 6> H1 H2 SHUNT FIELD INTER-COIL ARMATURE F1 A1 AX2 A2 F2 <NOTE 3> <CAUTION-SEE NOTE 1> <NOTE 4> THREE WIRE RTD TD1 TD2 TD3 <NOTE 5> ARMATURE AND FIELD EXTERNAL CONNECTIONS WARNING- SEE NOTE 7 FOR GROUNDING INSTRUCTIONS A1 A2 F1 F2 CCW ROTATION A1 A2 F1 F2 CW ROTATION ROTATION FACING COMMUTATOR END 1. CAUTION — ARMATURE MAY HAVE MULTIPLE LEADS. CONNECT ALL LUGS WITH THE SAME MARKING TOGETHER. 2. OPTIONAL CONTROL SIGNAL LEAD IS MARKED AX2. ALWAYS TAKE INTERPOLE DROP BETWEEN A2 AND AX2. NOTE: NEMA DESIGNATION FOR AX2 IS LETTER C. 3. SPACE HEATERS, WHEN PROVIDED, WILL HAVE LEADS MARKED H1 AND H2, H3, H4, ETC. 4. THERMAL PROTECTOR, WHEN PROVIDED, WILL HAVE LEADS MARKED P1 AND P2, P3, P4, ETC. 5. WINDING RTD'S, WHEN PROVIDED, WILL HAVE LEADS MARKED TD1, TD2, & TD3. 6. BRUSH WEAR SENSOR, WHEN PROVIDED, WILL HAVE LEAD MARKED W1. 7. WARNING — MOTOR MUST BE GROUNDED TO PREVENT SERIOUS INJURIES TO PERSONNEL. GROUND THE MOTOR PER IEC, NATIONAL ELECTRICAL CODE AND ANY APPLICABLE LOCAL ELECTRICAL CODES. A TAPPED HOLE IS PROVIDED IN THE CONDUIT BOX, ON THE FOOT. FRAME BRACE OR OPPOSITE OPPOSITE DRIVE END BRACKET, ADJACENT TO THE TERMINAL BOX FOR MOTOR GROUNDING. GROUND LEAD, WHEN PROVIDED, WILL BE GREEN. CUSTOMER CUSTOMER ORDER NO. RELIANCE S.D. NO.					
REV. DESC: UPDATE LOGO AND TITLEBLOCK: LOADED TO BUS		BALDOR D-C MOTOR CONNECTION DIAGRAM, STRAIGHT SHUNT SH 1 of 1			
REV. LTR: -	VERSION: 00				TDR: 000000781086
FILE: \RSN\00026\515	REVISED: 02: 41:08 02/01/2013				
MTL: -	BY: MGHPC				