



Customer information packet

D50150URE-BV

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

Specifications

Armature Voltage	500 V
Base Speed	1750 rpm
Enclosure	DP
Field Voltage	300 V
Frame	UC2815ATZ
Frame Material	Exposed Laminations
Output Power	150.000 HP
Agency Approvals	CCSA US
Ambient Temperature	40 °C
Armature Current	250.0 a
Bearing Grease Type	Polyrex EM (-20F +300F)
Drip Cover	No Drip Cover
Duty Rating	CONT
Feedback Device	NO FEEDBACK
Field Winding Type	STR. SHUNT
Frame Prefix	UC
Heater Indicator	No Heater
Lifting Lugs	Standard Lifting Lugs
Motor Standards	NEMA
Mounting Arrangement	F2
Overall Length	47.25 IN
Service Factor	1.00
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

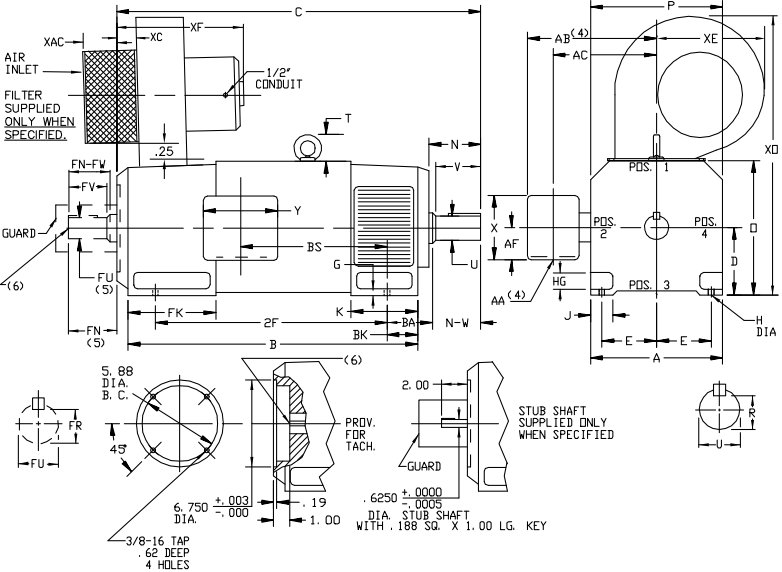
Nameplate

000613006HP									
CAT.NO.	D50150URE-BV	SPEC NO.		T28T1351					
FR	UC 2815ATZ	HP	150		DUTY		CONT		
ENCL.	DP	RPM	1750/ 2000		S.F.		1.0		
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.		75RU02M30X					
MAX AMPS @ 25 C	10.64	O.D.E. BRG.		55BC02J30X					
HOT AMPS	7.18/ 6.25	MIN. AMB.		0		TYPE		TR	
BRUSH:419904051AF									

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
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	D	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.	LBS.
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. 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 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.

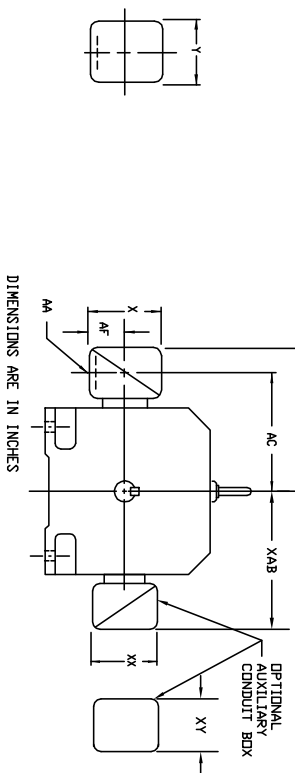
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

REV. DESC: LOADED TO BUS	VERSION: 00	TDR: 000000578087
REV. LTR: -	REVISED: 01:13:50 01/28/2011	BY: CONNAS
MTL: -		

BALDOR
DIMENSION DRAWING, MC2812ATZ - UC2815ATZ, DPP, FOOT MTG
SH 1 of 1

616022-001

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					PART NUMBER		ONE SIZE LARGER					PART NUMBER	
		AK(1)	AB	AC	AF	X	Y	AK(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"	8.03	5.53	1.94	4.38	5.00	705028-1-R	1-1/4 & 1-1/2	11.09	9.09	3.19	5.50	6.12	705029-1-R
C2514ATZ	96	1-1/4 & 1-1/2	11.09	9.09	3.19	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	155	3"	14.03	10.53	4.23	8.44	7.23	748747-R		14.47	11.22	4.23	8.44	7.23	748747-R
C2815ATZ	259	4"	14.47	11.22	4.23	8.44	7.23	748747-R		15.91	11.84	5.38	10.56	9.00	702508-3-R
(2)	259	5"	15.91	11.84	5.38	10.56	9.00	702508-3-R		18.72	13.47	7.00	12.75	15.00	702509-1-C

CAST IRON TERMINAL BOX DIMENSIONS															
FRAME SIZE	MAX. AMPS	STANDARD SIZE					ONE SIZE LARGER								
		AK(3)	AB	AC	AF	NUMBER	AK(3)	AB	AC	AF	NUMBER				
C2113ATZ	18	3/4	10.03	8.03	2.50	5.00	5.75	7.05028-2-S	1"	10.03	8.03	2.50	5.00	5.75	7.05028-2-T
C2115ATZ	40	1"	10.03	8.03	2.50	5.00	5.75	7.05028-2-T	1-1/2	10.97	8.53	3.00	6.00	7.00	7.05029-2-R
C2115ATZ	96	1-1/2	10.97	8.53	3.00	6.00	7.00	7.05029-2-R	2"	10.97	8.53	3.00	6.00	7.00	7.05029-2-S
(2)	208	2"	10.97	8.53	3.00	6.00	7.00	7.05029-2-S	2-1/2	12.66	8.91	3.62	7.88	9.25	7.05030-2-R
C2514ATZ	18	3/4	11.09	9.09	2.50	5.00	5.75	7.05028-2-S	1"	11.09	9.09	2.50	5.00	5.75	7.05028-2-T
C2514ATZ	40	1"	11.09	9.09	2.50	5.00	5.75	7.05028-2-T	1-1/2	12.03	9.59	3.00	6.00	7.00	7.05029-2-R
C2514ATZ	96	1-1/2	12.03	9.59	3.00	6.00	7.00	7.05029-2-R	2"	12.03	9.59	3.00	6.00	7.00	7.05029-2-S
C2514ATZ	208	2"	12.03	9.59	3.00	6.00	7.00	7.05029-2-S	2-1/2	13.72	9.97	3.62	7.88	9.25	7.05030-2-R
C2813ATZ	155	3"	12.78	10.34	3.00	6.00	7.00	7.05460-T	3"	14.47	10.72	3.62	7.88	9.25	7.06708-R
C2813ATZ	259	4"	15.78	11.59	4.12	9.50	10.50	7.06708-R	5" (4)	18.59	13.34	4.12	9.50	10.50	7.06708-R
(2)	269	4"	15.78	11.59	4.12	9.50	10.50	7.06708-R	5" (4)	18.59	13.34	4.12	9.50	10.50	7.06708-R

CONDUIT BOX DIMENSIONS WITH TERMINAL BOARDS (IEC TYPE BOX)

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	11.26	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 & 706310-63G	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
	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	6.02007-26-A	C210	10.88	8.00	706310-3-B
C250	8.44	4.25	6.02007-26-A	C250	11.88	8.00	706310-3-B
C280	9.12	4.25	6.02007-26-A	C280	12.62	8.00	706310-3-B

(1) 1/4" CONDUIT.
(2) RACE PROVIDED WITH DOUBLE KNUCKLE.
(3) 1/4" PIPE CAP.(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

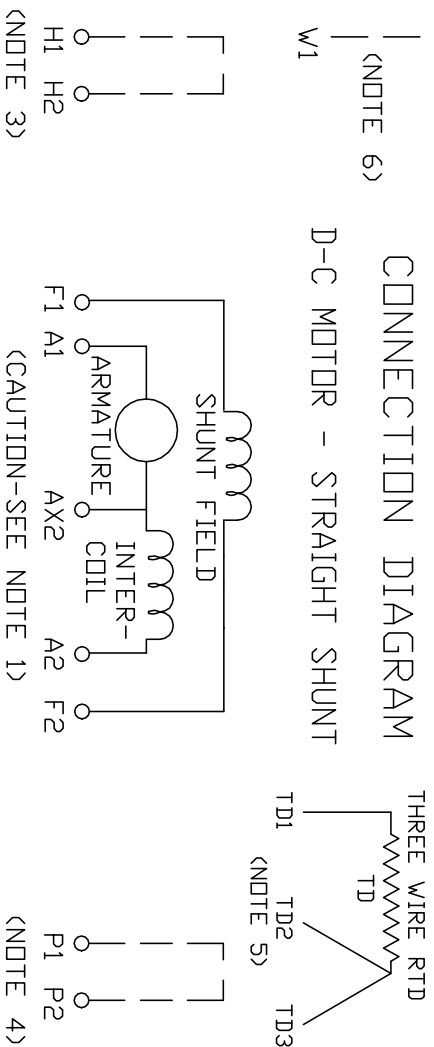
609959-001

CONNECTION DIAGRAM

--- (NOTE 6)

W1

D-C MOTOR - STRAIGHT SHUNT



ARMATURE AND FIELD EXTERNAL CONNECTIONS

WARNING- SEE NOTE 7 FOR GROUNDING INSTRUCTIONS



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 FDR MOTOR GROUNDING. GROUND LEAD, WHEN PROVIDED, WILL BE GREEN.

CUSTOMER _____ CUSTOMER RELIANCE
ORDER NO. _____ S.D. NO. _____

REV. DESC: UPDATE LOGO AND TITLEBLOCK: LOADED TO BUS		
REV. LTR: -	VERSION: 00	TDR: 000000781086
FILE: \RSN\00026\515		REVISED: 02: 41: 08 02/01/2013
MTL: -		BY: MGHPC

BALDOR

D-C MOTOR CONNECTION DIAGRAM, STRAIGHT SHUNT

SH 1 of 1