

BALDOR® • RELIANCE 

Product Information Packet

D5130R-BV

30HP,1150RPM,DC,2115ATZ,DPG-FV,

Part Detail							
Revision:	-	Status:	PRD/A	Change #:		Proprietary:	No
Type:	DC	Prod. Type:		Elec. Spec:	G8380A B	CD Diagram:	406770-006
Enclosure:	DP	Mfg Plant:		Mech. Spec:		Layout:	616002-001
Frame:	LC211	Mounting:	F1	Poles:	00	Created Date:	04-09-2015
Base:		Rotation:	R	Insulation:	F	Eff. Date:	04-13-2015
Field Type:		Literature:		Elec. Diagram:		Replaced By:	

Specs			
Enclosure:	DP		
Frame:	LC2115ATZ		
Frame Material:	Steel		
Agency Approvals:	CCSA US		
Base Indicator:	Rigid		
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:	LC		
Heater Indicator:	No Heater		
Insulation Class:	F		
Lifting Lugs:	Standard Lifting Lugs		
Mounting Arrangement:	F1		
Shaft Extension Location:	Pulley End		

Shaft Ground Indicator:	No Shaft Grounding		
Shaft Slinger Indicator:	No Slinger		
Motor Standards:	NEMA		

Nameplate 000613006HP	
CAT.NO.	D5130R-BV
FR	LC 2115ATZ
ENCL.	DP
ENCL MOD	FORCE VENT
MAX SAFE SPEED	4500
	FIELD DATA
WINDING	STR. SHUNT
VOLTS	300
MAX AMPS @ 25 C	3.95
HOT AMPS	2.97/ 1.63
	BRUSH:419904051AB
SPEC NO.	T21T1378
HP	30
RPM	1150/ 1800
VOLTS	500
AMPS	54.00
SER.NO.	
DUTY	CONT
S.F.	1.0
INSUL	F
AMB.	40
POWER CODE	C
D.E. BRG.	50BC03J30X
O.D.E. BRG.	45BC02J30X
MIN. AMB.	0
TYPE	TR

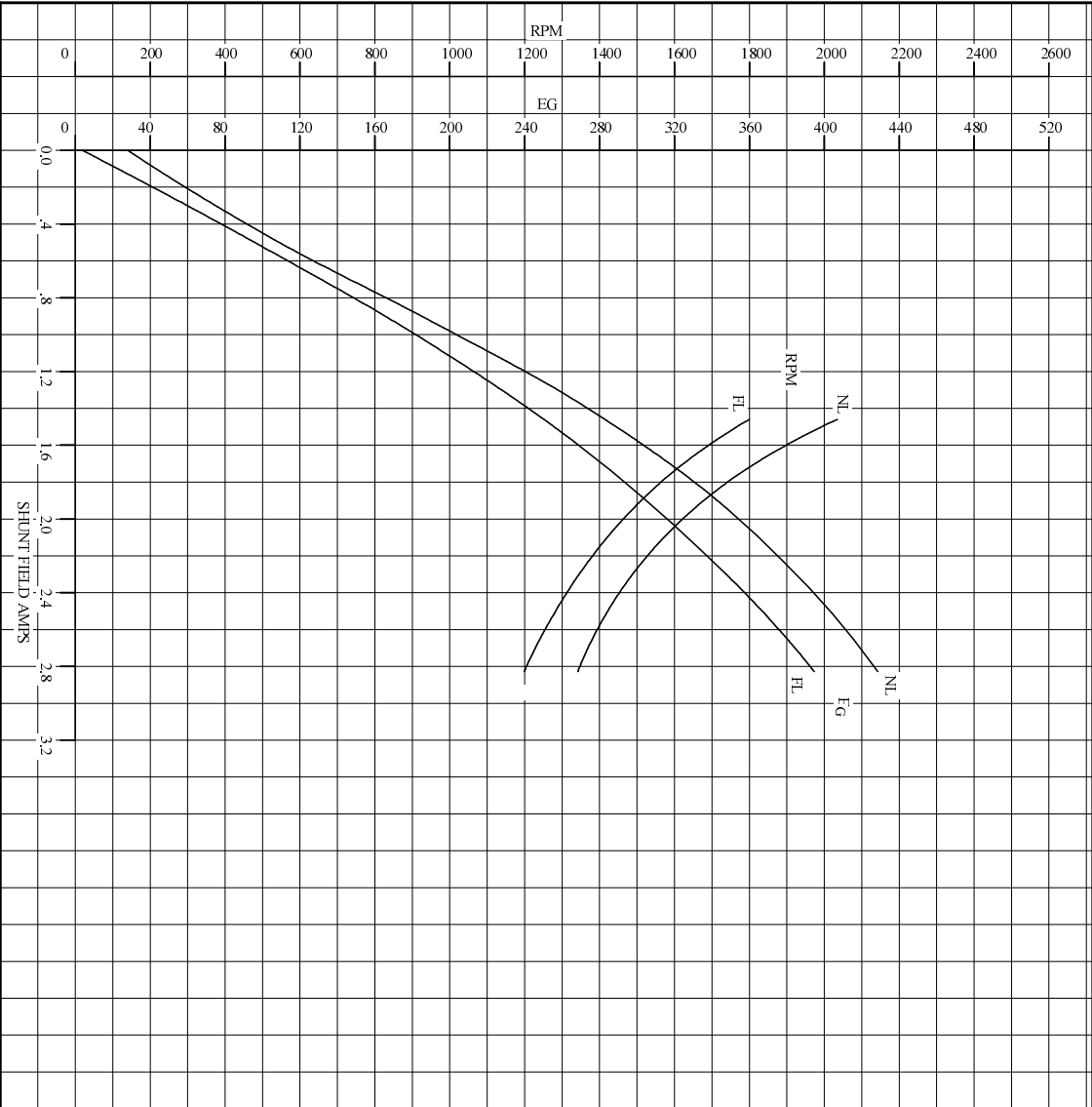
Parts List		
Part Number	Description	Quantity
SA297119	SA T21T1378	1.000 EA
AA016156	AA T21T1378	1.000 EA
000613006HP	NAMEPLATE - RPM III D-C MOTOR W/CSA LOGO	1.000 EA
000692000FP	NP, WARNING LIFT INSTRUCTIONS	1.000 EA
000692000FS	WARNING LABEL	1.000 EA
036170004EA	ROUND HEAD DRIVE SCREW	6.000 EA
406770006	C/D TAG STRAIGHT SHUNT	1.000 EA
036000012HB	HHCS M6X12MM LONG PLATED	4.000 EA
036000020KB	MHHCS M10-1.5X20MM PLTD.	4.000 EA
036501008AB	KPNUT M6-1.0 ZINCPLETED	8.000 EA
036610010AB	MHSLW M10 PLATED	4.000 EA
419904051AB	BRUSH EXTRUDER DUTY C	4.000 EA
419905003A	FLAT WASHER ROCKER RPM III RGG	4.000 EA
419905008A	HARDWARE	8.000 EA
706364051AA	BRHLD ADD HARDWARE	4.000 EA
706372001B	ROCKR METRIC	1.000 EA
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
036000055JB	HHCS,DE CAP	2.000 EA
036000060KB	HHCS,DE CAP	3.000 EA
036500010AB	METRIC NUT M10-1.5PLTD400	4.000 EA
036500010AB	METRIC NUT M10-1.5PLTD400	4.000 EA

Parts List (continued)		
Part Number	Description	Quantity
048977006B	GRFTG - XP	1.000 EA
400638001H	SPRING WASHER	1.000 EA
418150003A	GREASE FITTING CAP	2.000 EA
609830005AAT	TBOLT METRIC	4.000 EA
801924102A	BRKT,ODE,C210	1.000 EA
801925102A	BRKT,DE,C210	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	4.000 EA
034017014AB	LCKW 3/8 STD. PLATED	4.000 EA
036000012HB	HHCS M6X12MM LONG PLATED	2.000 EA
036000012JB	M8-1.25 X 12MM HXHDC	3.000 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
065564000B	GASK 250-280	1.000 EA
075453000A	CBOXC, PAINTED 250-280	1.000 EA
410978010C	FLANGE, INLET BLOWER HSG.	1.000 EA
410978019A	SCREEN, INLET FLANGE	1.000 EA
417733001D	GASKT	2.000 EA
418010006A	CAST,MPLATE,180-280,EX1,7BY	1.000 EA
418018074A	GROUND LABEL G100 METRIC 160 D.C.	1.000 EA
422919001	CVRKT BE SOLID C210	1.000 EA

Product Information Packet: D5130R-BV - 30HP,1150RPM,DC,2115ATZ,DPG-FV,

422919003	HHCVR KIT,C210,DE,LOUVERED	1.000 EA
422919003	HHCVR KIT,C210,DE,LOUVERED	1.000 EA
422919012	HHCVR KIT,C210,ODE,SOLID	1.000 EA
422919012	HHCVR KIT,C210,ODE,SOLID	1.000 EA
422919012	HHCVR KIT,C210,ODE,SOLID	1.000 EA
610490001AH	.75HP,3450//2850RPM,3PH,60//50HZ,56C,351	1.000 EA
611917002A	GASKT	1.000 EA
611965001A	WHEEL, BLOWER	1.000 EA
706305026A	GUARD,SHAFT	1.000 EA
706320005A	CONDUIT BOX	1.000 EA
708528004G	HOUSING, BLOWER	1.000 EA
000640000P	TAG WINDING THERMOST	1.000 EA
000692000NG	LABEL ;NP 4POLE METRIC LABEL	1.000 EA
034180020GA	KEY 1/2X1/2X2-1/2 L	1.000 EA
418018116	WARNING PLATE	1.000 EA

REF. S.O.	FRAME LC2115ATZ	RATING 30.0HP	BASE SPEED 1150	WINDING TYPE STAB SHUNT		
S.F. ENCL.	AMB°C/INSUL 40/F	DUTY CONT	POWER CODE/FORM FACTOR C	BASIC RPM 1380		
1.0 DPFV	\bar{R} (hot) .178	T_r .0126	T_m .0175	MAX CONT RPM 1800		
COOLING AIR (CFM/IN H ₂ O) \bar{V} (sec) 300/2.25				WINDER RPM MAX. SAFE 4500		
WINDING	VOLTS	RESISTANCE		CURRENT	INDUCTANCE	TURNS PER COIL
		25°C	HOT	25°C	HOT	
ARM CIRCUIT	500	1.00	1.35	-	54.0	17.7 MH
SERIES S1-S2	-	.0225	.0299	-	54.0	-
SHUNT F1-F2	300	76.6	106	3.92	2.83	11.4 H



REMARKS: TYPICAL DATA
CURVES VALID FOR NAMEPLATE SPEED RANGE ONLY

BALDOR		DR. BY T. BELL	D-C
BALDOR • DOUG • RELIANCE		CK. BY T. BELL	
		APP. BY T. SIMON	
		DATE 09/13/95	APPLICATION DATA
			ISSUE DATE 09-13-95
			SG8380AB

REL S.O.	FRAME	RATING	RPM	ARM. VOLTS	ARM. AMPS
	LC2115ATZ	30.0HP	1150	500	54.0
WINDING TYPE		S.F.	ENCL.	AMB °C/INSUL	DUTY
STAB. SHUNT		1.0	DPFV	40/F	CONT
					300
POWER CODE	TYPE	WK 2 (LB-PT 2)	HOT ARM. CIR. RES.	FLD. AMPS@25 °C	HOT FIELD RES
	C	TR	3.618	1.35	3.91
					106


ARM. CIR. IND. (mh)	FIELD IND. (H)	COOLING AIR (CFM/IN H 20)	TURNS PER COIL SHUNT/SERIES	TEST DATE
17.7	11.3	300/2.25	680/2	-

LOAD PERFORMANCE					
LOAD	AMPERES	TORQUE IN LB.-FT.	OUTPUT IN HP	RPM	% EFFICIENCY
NO LOAD	.89	0	0	1333	0
1/4	14	32.9	8.07	1289	78.7
2/4	27	67.4	16.1	1252	83.2
3/4	41	100	23.3	1221	82.3
4/4	54	131	29.9	1196	80.0
O.L.	81	186	40.9	1156	73.7

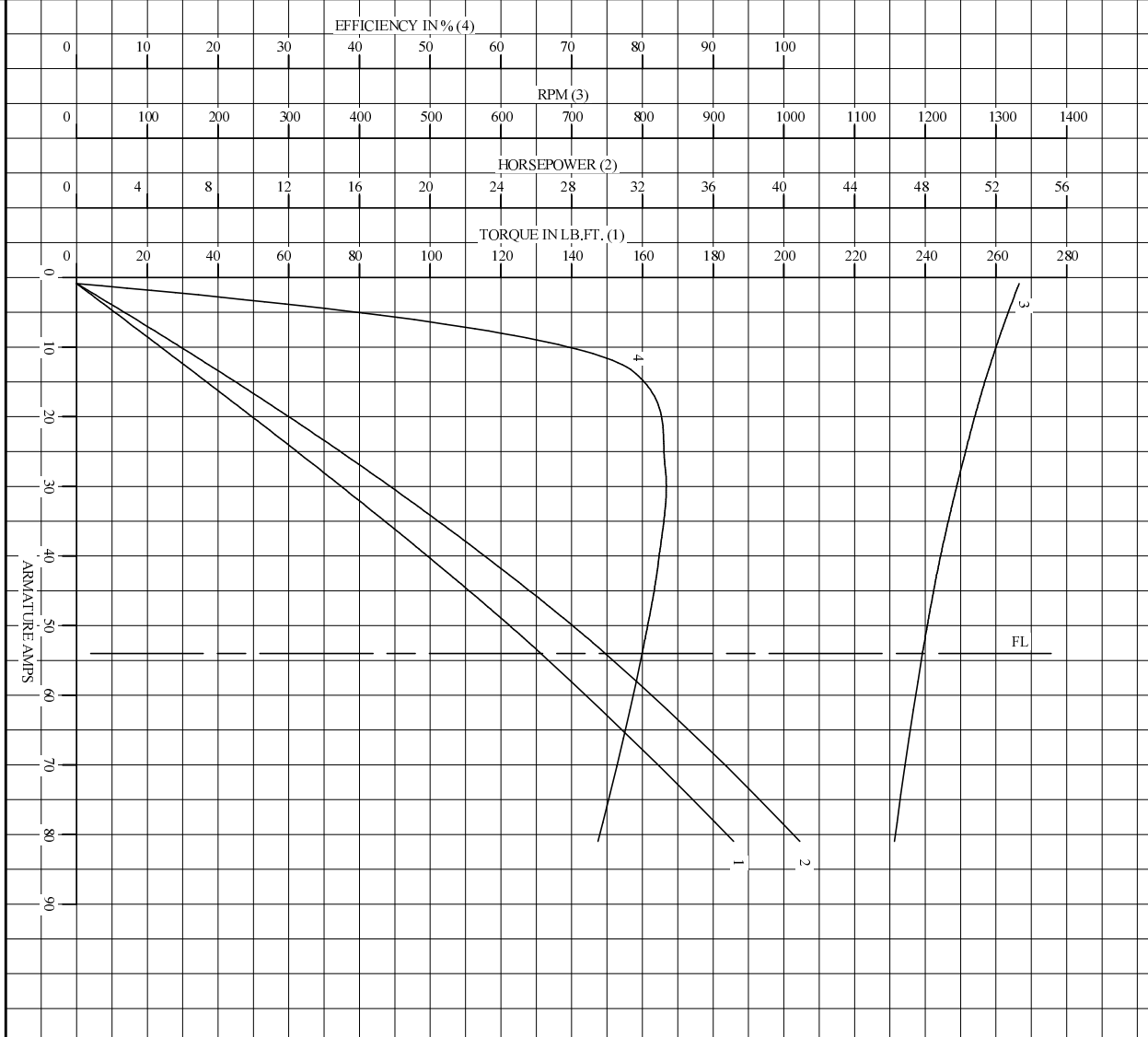
RPM VS. FIELD AMPS			Eg VS. FIELD AMPS	
FIELD AMPS	RPM N.L.	RPM F.L.	Eg N.L. @ BASE SPEED	Eg F.L. @ BASE SPEED
2.82	1332	1196	428	394
2.48	1425	1286	401	365
2.14	1552	1402	369	331
1.80	1741	1563	330	293
1.45	2034	1800	282	250

MAXIMUM SAFE SPEED = 4500 RPM

REMARKS: TYPICAL DATA

	DR. BY T. BELT	D-C MOTOR PERFORMANCE DATA DG8380AB ISSUE DATE 09-13-95
	CK. BY T. BELT	
	APP. BY T.S. EVON	
	DATE 09-13-95	

REL. S.O.	IC2115ATZ	DUTY CONT	TYPE TR	S.F.	1.0		
FRAME	30.0HP	ENCL. DPFV	WR ² (LB-FT ²)	3.618	FLD.AMP@25 °C	3.91	
HP/KW	11.50	AMB °C INSL.	HOT ARM. CIR. RES.	1.35	FIELD IND (H)	11.3	
RPM	500	ARM. AMPS	54.0	ARM. CIRCUIT IND(ohm)	1.7.7	CFM/IN. H ₂ O	300/2.25
ARM. VOLTS	500	FIELD VOLTS	300	HOT FIELD RES.	106	TEST S.O.	-
MDG. TYPE	STAB. SHUNT	POWER CODE	C	TEST DATE	-		



REMARKS: TYPICAL DATA



DR. BY T. BELL
 CK. BY T. BELL
 APP. BY T. SIMON
 DATE 09-13-95

D-C
PERFORMANCE
CURVES
PG8380AB
 ISSUE DATE 09-13-95

616002-001

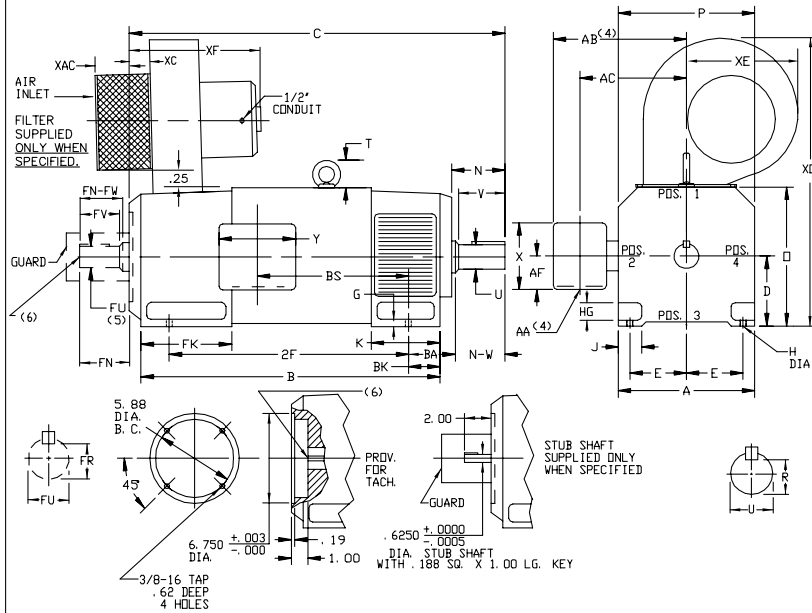
INDUSTRIAL DIRECT CURRENT MOTORS AND GENERATORS - RPM III

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

COOLING: FORCE VENTILATED
WITH INTEGRAL
BLOWER AND MOTOR

FRAMES SC2113ATZ THRU LC2115ATZ

ACCESSORIES: PROVISION FOR
TACHOMETER MOUNTING
ONLY WHEN SPECIFIED



DIMENSIONS ARE IN INCHES

FRAME	XAC	XC	XE	XF	XO
SC2113ATZ-LC2115ATZ	7.75	2.25	10.00	16.00	22.75

FRAME	A	D(1)	E	G	H	HG	J	O	P	T	BA	K	FK	BK
SC2113ATZ-LC2115ATZ	10.25	5.25	4.25	.44	.44	1.38	1.75	10.44	10.31	2.08	3.50	5.19	6.81	2.38

FRAME	C(7)	B	BS	2F	DRIVE END SHAFT AND KEY							OPPOSITE DRIVE END SHAFT AND KEY(S)					WT. LBS.		
					N	N-W	U(2)	V	R(3)	SQ.	LGTH	FN	FN-FW	FU(2)	FV	FR(3)		SQ.	LGTH
SC2113ATZ	28.38	22.50	11.38	18.00	4.00	3.75	1.875	3.50	1.991	.500	2.50	3.50	3.25	1.625	3.00	1.416	.375	2.25	345
MC2113ATZ	29.62	23.75	12.62	18.00	4.00	3.75	1.875	3.50	1.991	.500	2.50	3.50	3.25	1.625	3.00	1.416	.375	2.25	370
LC2113ATZ	31.25	25.38	14.25	18.00	4.00	3.75	1.875	3.50	1.991	.500	2.50	3.50	3.25	1.625	3.00	1.416	.375	2.25	400
MC2115ATZ	32.50	26.62	15.50	22.00	4.00	3.75	1.875	3.50	1.991	.500	2.50	3.50	3.25	1.625	3.00	1.416	.375	2.25	425
LC2115ATZ	35.25	29.38	18.25	22.00	4.00	3.75	1.875	3.50	1.991	.500	2.50	3.50	3.25	1.625	3.00	1.416	.375	2.25	480

- (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 OPP. DRIVE END, ADD .25 TO "C" DIM. FOR BRACKET COVER.
- TERMINAL BOX CAN BE ROTATED FOR LEAD OUTLET AT TOP, SIDES OR BOTTOM. 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.

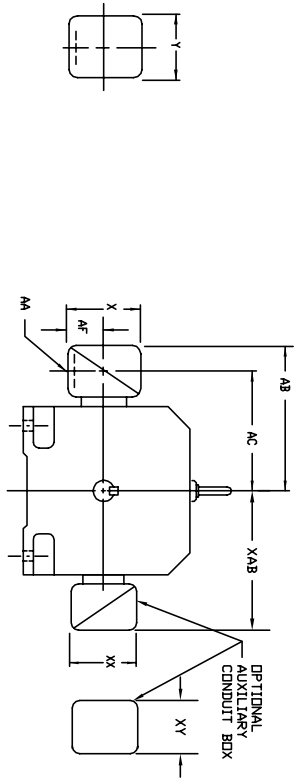
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MTL: -		

BALDOR
DIMENSION DRAWING, SC2113ATZ - LC2115ATZ, DPP, FOOT MTG
SH 1 of 1

616002-001

609959-001

**INDUSTRIAL DIRECT CURRENT MOTORS
AND GENERATORS - RPM III**
TERMINAL BOX DIMENSIONS
STANDARD SIZE AND ONE SIZE LARGER
FRAMES C2113ATZ THRU C2815ATZ



FRAME SIZE	STANDARD SIZE						ONE SIZE LARGER								
	MAX. AMPS	AK(1)	AB	AC	AF	PART NUMBER	AK(1)	AB	AC	AF	PART NUMBER				
C2113ATZ	40	3/4 & 1"	8.97	7.47	1.94	4.38	5.00	7.05028-1-R	1-1/4 & 1-1/2	10.03	8.03	2.50	5.50	6.12	7.05029-1-R
C2115ATZ	96	1-1/4 & 1-1/2	10.03	8.03	2.50	5.50	6.12	7.05029-1-R	2" & 2-1/2	11.16	8.41	3.19	7.00	7.62	7.05030-1-R
(2)	208	2" & 2-1/2	11.16	8.41	3.19	7.00	7.62	7.05030-1-R	2" & 2-1/2	11.16	8.41	3.19	7.00	7.62	7.05030-1-R
C2513ATZ	40	3/4 & 1"	10.03	8.53	1.94	4.38	5.00	7.05029-1-R	1-1/4 & 1-1/2	11.09	9.09	2.50	5.50	6.12	7.05029-1-R
C2515ATZ	96	1-1/4 & 1-1/2	11.09	9.09	2.50	5.50	6.12	7.05029-1-R	2" & 2-1/2	12.22	9.47	3.19	7.00	7.62	7.05030-1-R
(2)	208	2" & 2-1/2	12.22	9.47	3.19	7.00	7.62	7.05030-1-R	2" & 2-1/2	12.22	9.47	3.19	7.00	7.62	7.05030-1-R
C2813ATZ	128	2"	14.03	10.53	4.25	8.44	7.25	7.4874-R	3"	14.47	11.22	4.25	8.44	7.25	7.4874-R
C2815ATZ	185	3"	14.47	11.22	4.25	8.44	7.25	7.4874-R	4"	15.91	11.84	5.38	10.56	9.00	7.0308-3-R
(2)	259	4"	15.91	11.84	5.38	10.56	9.00	7.0308-3-R	5" (4)	18.72	13.47	7.00	12.75	15.00	7.02658-1-C

FRAME SIZE	STANDARD SIZE						ONE SIZE LARGER								
	MAX. AMPS	AK(3)	AB	AC	AF	PART NUMBER	AK(3)	AB	AC	AF	PART 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-R	1-1/2	10.97	8.53	3.00	6.00	7.00	7.05029-2-S
(2)	96	1-1/2	10.97	8.53	3.00	6.00	7.00	7.05029-2-R	2-1/2	12.66	8.91	3.62	7.88	9.23	7.05029-2-S
208	3/4	10.97	8.53	3.00	6.00	7.00	7.05029-2-S	1"	11.09	9.09	2.50	5.00	5.75	7.05028-2-T	
C2513ATZ	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
C2515ATZ	96	1-1/2	12.03	9.59	3.00	6.00	7.00	7.05029-2-S	2"	12.03	9.59	3.00	6.00	7.00	7.05029-2-S
(2)	208	2"	12.03	9.59	3.00	6.00	7.00	7.05029-2-S	1-1/2	12.03	9.59	3.00	6.00	7.00	7.05029-2-R
C2813ATZ	128	2"	12.78	10.34	3.00	6.00	7.00	7.5460-T	3"	14.47	10.72	3.62	7.88	9.23	7.6700-R
C2815ATZ	185	3"	14.47	10.72	3.62	7.88	9.23	7.6700-R	4"	15.78	11.59	4.12	9.50	10.50	7.6700-R
(2)	259	4"	15.78	11.59	4.12	9.50	10.50	7.6700-R	5" (4)	18.59	13.34	7.00	12.75	15.00	7.6870-S

FRAME SIZE	STANDARD SIZE						ONE SIZE LARGER					
	AMP(S)	AB	AC	AF	X	Y	AB	AC	AF	X	Y	
C210	100	10.71	8.98	2.72	7.48	7.48	7.48	7.48	7.48	7.48	7.48	
200	11.26	9.25	3.35	8.82	8.82	8.82	7.48	7.48	7.48	7.48	7.48	
100	11.30	9.57	2.72	7.48	7.48	7.48	7.48	7.48	7.48	7.48	7.48	
200	11.85	9.84	3.35	8.82	8.82	8.82	7.48	7.48	7.48	7.48	7.48	
400	17.48	12.75	6.20	14.39	14.39	14.39	7.48	7.48	7.48	7.48	7.48	
800	17.48	12.75	6.20	14.39	14.39	14.39	7.48	7.48	7.48	7.48	7.48	
200	12.60	10.99	3.76	8.82	8.82	8.82	7.48	7.48	7.48	7.48	7.48	
400	18.27	13.54	6.20	14.39	14.39	14.39	7.48	7.48	7.48	7.48	7.48	
800	18.27	13.54	6.20	14.39	14.39	14.39	7.48	7.48	7.48	7.48	7.48	
1600	18.27	13.54	7.68	15.35	15.35	15.35	7.48	7.48	7.48	7.48	7.48	

(1) *AM. CONDUIT
(2) STEEL TERMINAL BOX FOR C2113ATZ AND C2515ATZ
(3) *AM. PIPE TAP
(4) TERMINAL BOX 76870-9R EXTENDS BELOW MOTOR FEET.
TERMINAL BOX CAN BE ROTATED FOR LEAD OFFSET AT TOP, SIDES OR BOTTOM.
TERMINAL BOX LOCATED ON OPPOSITE SIDE WHEN F-2, V-1, V-4, V-5, V-7,
OR C-1 MOUNTING IS SPECIFIED. BOX LOCATED ON TOP WHEN SPECIFIED.
FOR *X/P TERMINAL BOX DIMENSIONS SEE 609959-2.
FOR **X/P 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
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MTL: -		BY: RGGWT

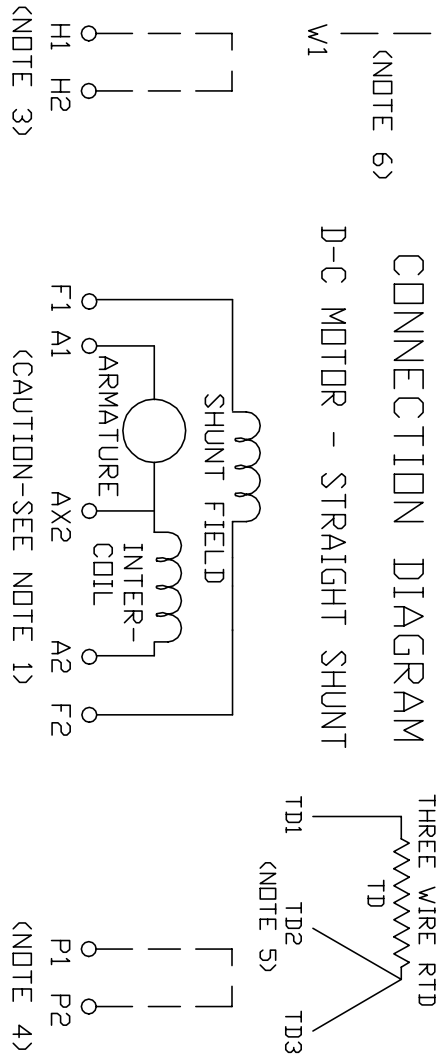


DIMENSION SHEET
SH 1 of 1

609959-001

406770-006

406770-006



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

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

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