

BALDOR® • RELIANCE

Product Information Packet

D5130R-BV

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

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Part Detail			
Type:	DC	Prod. Type:	TR
Power Code:	C	Weight:	480
Frame Group:	LC 2115ATZ	Mounting Pos.:	F1
HP:	30	Enclosure:	DPFV
RPM:	1150/1800	Wound:	STR. SHUNT
Service Factor:	1.0	Arm V:	500
Arm A:	54.00	Field V:	300
Field A:	3.95	Field A Hot:	2.97/1.63
Insulation Class:	F	Ambient:	40
Duty:	CONT	DE Bearing:	50BC03J30X
ODE Bearing:	45BC02J30X	Brushes:	419904-51AB
Brush Qty.:			

616002-001

INDUSTRIAL DIRECT CURRENT MOTORS AND GENERATORS - RPM III

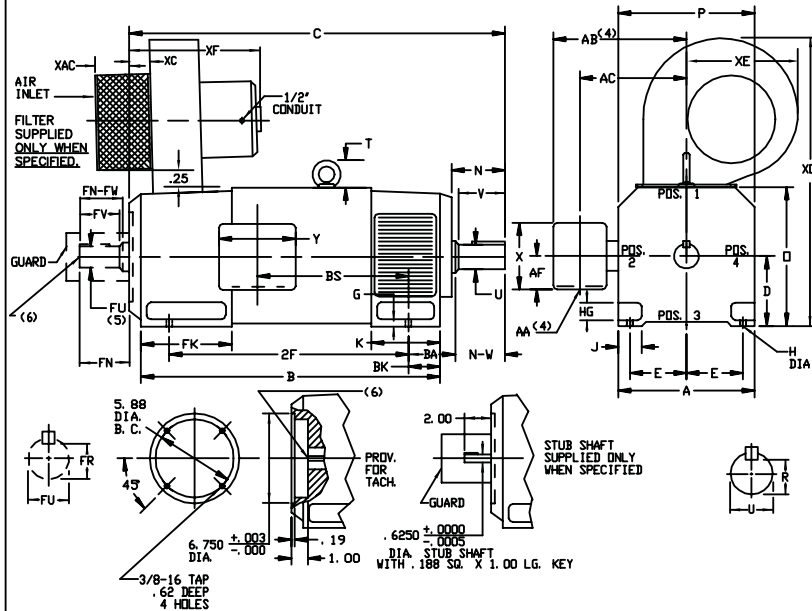
ENCLOSURE: DRIP-PROOF FULLY-GUARDED,
SPLASHPROOF

COOLING: FORCE VENTILATED
WITH INTEGRAL
BLOWER AND MOTOR

MOUNTING: FOOT
METHOD OF DRIVE: COUPLED OR BELTED

ACCESSORIES: PROVISION FOR
TACHOMETER MOUNTING
ONLY WHEN SPECIFIED

FRAMES SC2113ATZ THRU LC2115ATZ



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)						VT.		
					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

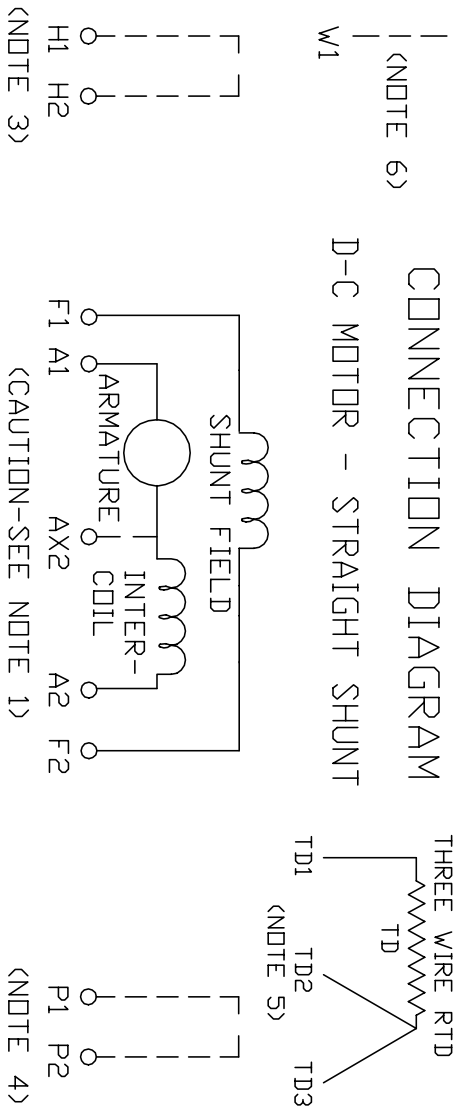
- (1) "D" DIMENSION WILL NOT BE EXCEEDED. SHIMS UP TO .03 INCHES IN THICKNESS ARE USUALLY REQUIRED FOR COUPLED OR GEARED MACHINES.
- (2) "U" AND "FU" VARY----+.000 - .001
- (3) "R" AND "FR" VARY----+.000 - .015
- (4) TERMINAL BOX VARIES WITH H.P. FOR DIMENSIONS "AA", "AB", "AC", "AF", "X" AND "Y". REFER 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.

REV. DESC: LOADED TO BUS	VERSION: 00	TDR: 000000578087
REV. LTR: -	REVISED: 08:22:49 01/28/2011	BY: CONNAS
FILE: \RGG\00015\944		
MTL: -		

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

616002-001



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 WEAR RTD'S, WHEN PROVIDED, WILL HAVE LEAD MARKED W1.
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.O. NO. _____



Rev. BY N.L. EVANS
CHK BY N. JESCHKE
APP BY E.J. HINER
DATE 5-5-69

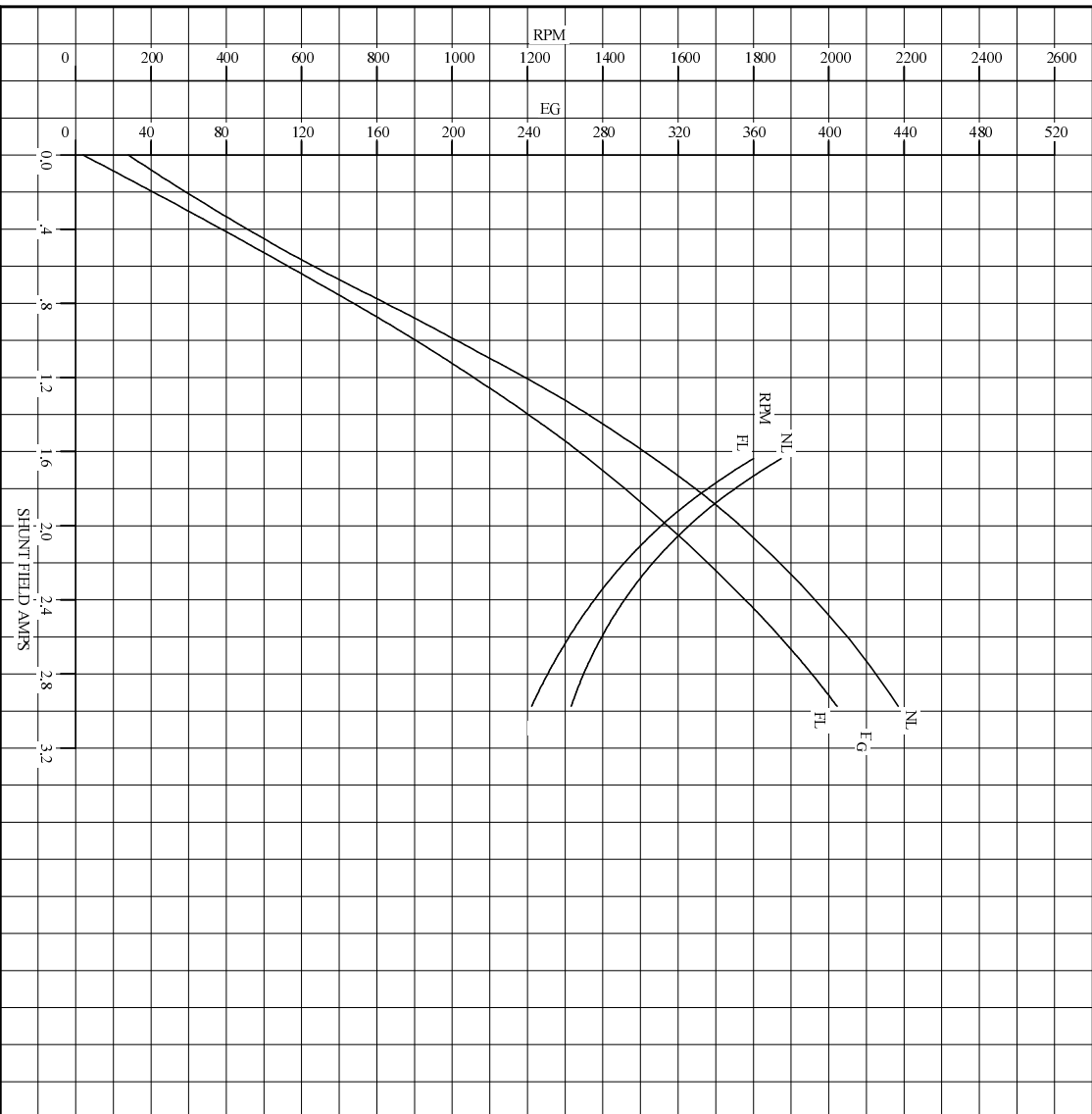
CONNECTION DIAGRAM

406770-6

ORIGINAL AT RCC

C/R 244907, 290048, 354478, 354480

REF. S.O.			FRAME LC2115ATZ	RATING 30.0HP		BASE SPEED 1150	WINDING TYPE STRAIGHT SHUNT	
S.F. 1.0	ENCL. DPEV	AMB°C/INSUL 40/F	DUTY CONT	POWER CODE/FORM FACTOR C		BASIC RPM 1380	MAX COUNT RPM 1800	WINDER RPM MAX. SAFE 4500
COOLING AIR (CFM/IN H ₂ O) 300/2.25			̄ R (hot) .173	Te .0129	Tm .0171	INDUCTANCE PER COIL		
WINDING			RESISTANCE		CURRENT		TURNS PER COIL	
VOLTS			25°C .979	HOT 1.32	25°C 54.0	HOT 1.77		MR -
ARM CIRCUIT			-		-		-	
SERIES S1-S2			-		-		-	
SHUNT F1-F2			76.0		1.01		3.95	
					2.97		11.3	
							H	



REMARKS: TYPICAL DATA SPEED REGULATOR REQUIRED FOR STABILITY
CURVES VALID FOR NAMEPLATE SPEED RANGE ONLY

BALDOR		D-C	
DR. BY R. REBLACHER	APP. BY T. SIMON	APPLICATION DATA	
DATE 01-04-95	DATE 01-04-95	ISSUE DATE 01-04-95	
BALDOR • DOUG • RELIANCE		SC8380A	


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
STRAIGHT 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	1.32	3.94
					1.00

ARM. CIR. IND. (mh)	FIELD IND. (H)	COOLING AIR (CFM/IN H 20)	TURNS PER COIL SHUNT/SERIES	TEST DATE
17.7	11.2	300/2.25	675/.00000	-

LOAD PERFORMANCE					
LOAD	AMPERES	TORQUE IN LB.-FT.	OUTPUT IN HP	RPM	% EFFICIENCY
NO LOAD	.85	0	0	1308	0
1/4	14	33.3	8.08	1272	78.3
2/4	27	67.9	16.1	1245	83.1
3/4	41	101	23.4	1223	82.4
4/4	54	130	30.0	1208	80.1
O.L.	81	181	41.1	1193	74.0

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	
2.97	1308	1208	436	404	
2.64	1386	1298	412	377	
2.30	1491	1413	384	346	
1.97	1644	1570	349	311	
1.63	1873	1800	307	272	

REMARKS: TYPICAL DATA
 MAXIMUM SAFE SPEED = 4500 RPM
 SPEED REGULATOR REQUIRED FOR STABILITY

	DR. BY R. BRILACHER	D-C MOTOR PERFORMANCE DATA D68380A ISSUE DATE 01-04-95
	CK. BY R. BRILACHER APP. BY T.S. EVON DATE 01-04-95	

