

# **BALDOR® • RELIANCE**

## **Product Information Packet**

### **D2030R-BV**

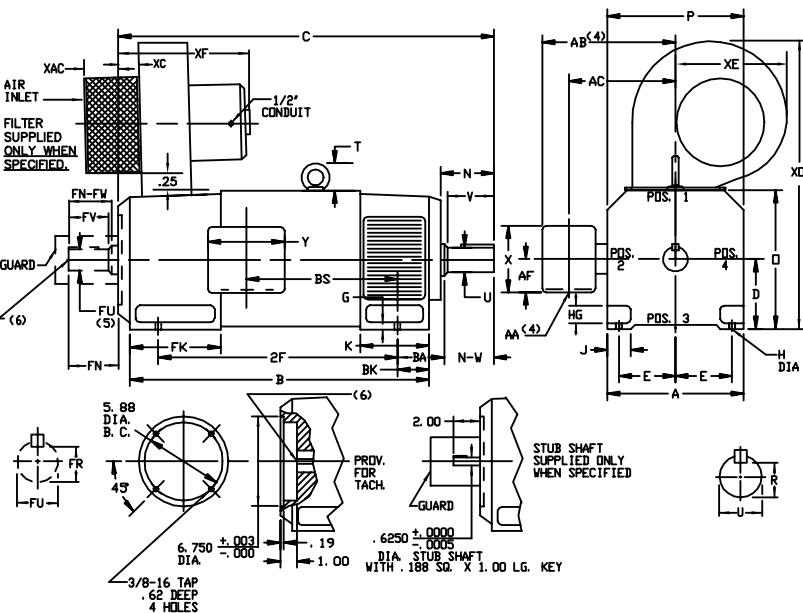
**30HP,1750RPM,DC,2113ATZ,DPG-FV,**

Part Detail			
Type:	DC	Prod. Type:	TR
Power Code:	C	Weight:	400
Frame Group:	LC 2113ATZ	Mounting Pos.:	F1
HP:	30	Enclosure:	DPFV
RPM:	1750/2300	Wound:	STR SHUNT
Service Factor:	1.0	Arm V:	240
Arm A:	109.00	Field V:	150
Field A:	10.07	Field A Hot:	7.17/4.42
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, COOLING: FORCE VENTILATED  
SPLASHPROOF WITH INTEGRAL  
MOUNTING: FOOT BLOWER AND MOTOR  
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	1.44	1.44	1.38	1.75	10.44	10.31	2.08	3.50	5.19	6.81	2.38

FRAME	C(7)	B	BS	2F	N	N-W	U(2)	V	R(3)	SQ.	LGTH	FN	FN-FW	FU(2)	FV	FR(3)	SQ.	LGTH	LBS
SC2113ATZ	28.38	22.50	11.38	18.00	4.00	3.75	1.875	3.50	1.591	.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	1.591	.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	1.591	.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	1.591	.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	1.591	.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-----4.000 - .001  
(3) "R" AND "FR" VARY-----4.000 - .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.  
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.  
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: -		

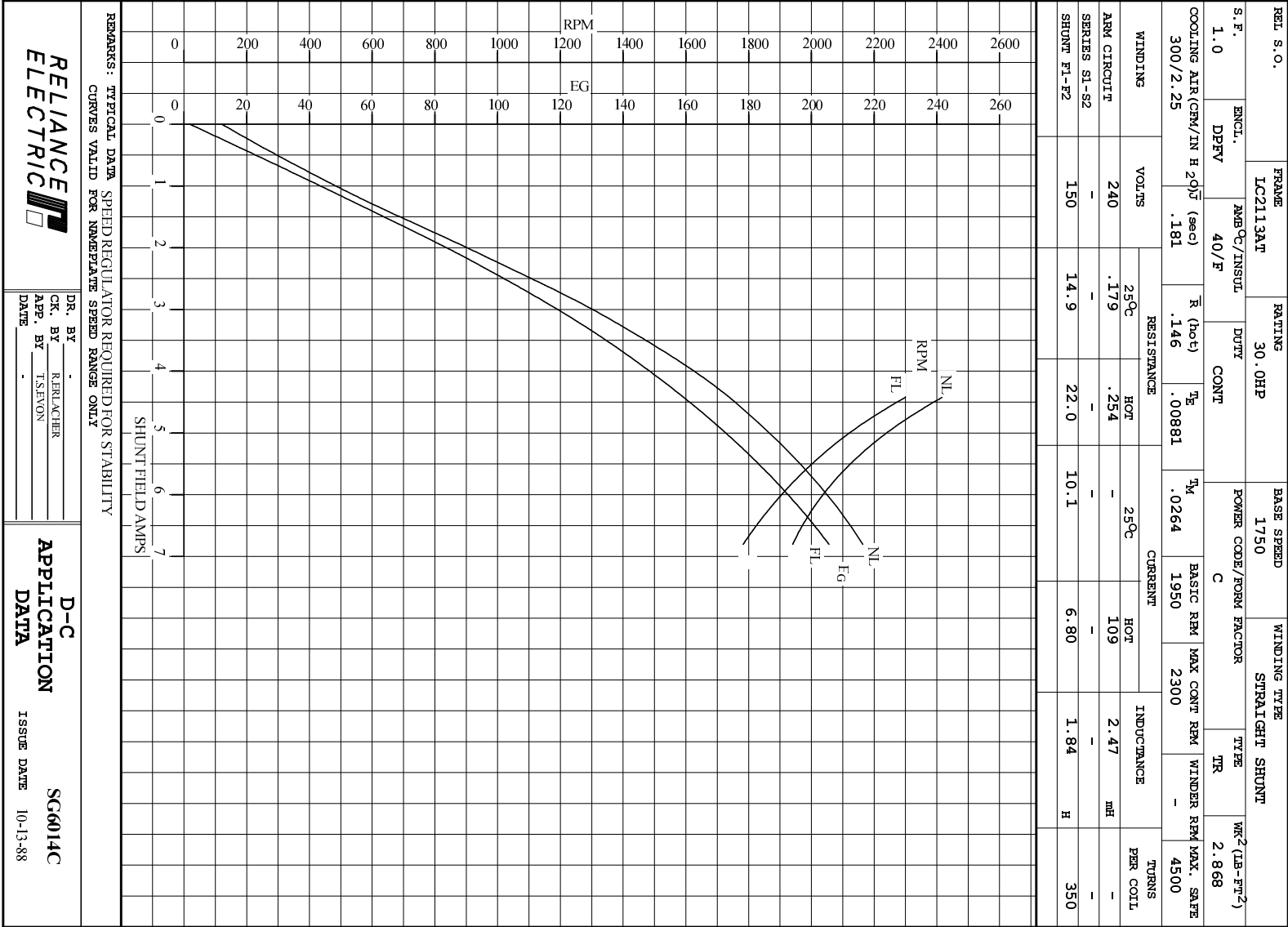
**BALDOR**  
DIMENSION DRAWING, SC2113ATZ - LC2115ATZ, DPP, FOOT MTG  
SH 1 of 1

616002-001

Page 4 of 7

REL. S.O.	FRAME	RATING	RPM	ARM. VOLTS	ARM. AMPS
	LC2113AT	30.0HP	1750	240	109
WINDING TYPE					
	S.F.	ENCL.	AMB °C/INSUL	DUTY	FIELD VOLTS
STRAIGHT SHUNT	1.0	DEPV	40/F	CONT	150
POWER CODE					
	TYPE	WK <sup>2</sup> (LB-FT <sup>2</sup> )	HOT ARM. CIR. RES.	FLD. AMPS@25 °C	HOT FIELD RES
C	TR	2.868	.253	10.0	22.0
ARM. CIR. IND. (mh)					
	FIELD IND. (H)	COOLING AIR (CFM/IN H 20)		TURNS PER COIL SHUNT/SERIES	TEST DATE
2.47	1.84	300/2.25		350/.00000	-
LOAD PERFORMANCE					
LOAD	AMPERES	TORQUE IN LB.-FT.	OUTPUT IN HP	RPM	% EFFICIENCY
NO LOAD	2.5	0	0	1927	0
1/4	27	21.3	7.63	1885	74.3
2/4	55	44.3	15.5	1843	81.5
3/4	82	66.3	22.8	1810	82.2
4/4	109	87.3	29.6	1781	80.9
O.L.	164	125	41.4	1738	76.4
RPM VS. FIELD AMPS					
FIELD AMPS	RPM N.L.	RPM F.L.	Eg N.L. @ BASE SPEED	Eg F.L. @ BASE SPEED	
6.80	1926	1780	216	205	
6.20	2007	1869	208	196	
5.61	2102	1978	198	185	
5.01	2234	2116	187	173	
4.42	2416	2300	173	159	
REMARKS: TYPICAL DATA      MAXIMUM SAFE SPEED = 4500    RPM SPEED REGULATOR REQUIRED FOR STABILITY					
<b>RELIANCE</b> <b>ELECTRIC</b>		DR. BY _____ CK. BY <u>K. ERACHER</u> APP. BY <u>T. STEVON</u> DATE _____		<b>D-C MOTOR</b> D66014C <b>PERFORMANCE</b> <b>DATA</b> ISSUE DATE 10-13-88	

c/r -



C/R

