

BALDOR® • **RELIANCE**

Product Information Packet

D50200RR-BV

200HP, 1750RPM, DC, 3214ATZ, DPG-FV,

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Part Detail			
Type:	DC	Prod. Type:	TR
Power Code:	C	Weight:	1475
Frame Group:	UC 3214ATZ	Mounting Pos.:	F2
HP:	200	Enclosure:	DPFV
RPM:	1750/2100	Wound:	STR. SHUNT
Service Factor:	1.0	Arm V:	500
Arm A:	322.00	Field V:	300
Field A:	8.37	Field A Hot:	5.88/4.75
Insulation Class:	F	Ambient:	40
Duty:	CONT	DE Bearing:	
ODE Bearing:	65BC02J30X	Brushes:	419904-52AF
Brush Qty.:			

616032-001

INDUSTRIAL DIRECT CURRENT MOTORS AND GENERATORS - RPM III

ENCLOSURE: DRIP-PROOF FULLY-GUARDED
SPLASHPROOF
MOUNTING: FOOT

COOLING: FORCE VENTILATED
WITH INTEGRAL
BLOWER AND MOTOR

ACCESSORIES: PROVISION FOR
TACHOMETER MOUNTING
ONLY WHEN SPECIFIED

FRAMES SC3210ATZ THRU ULC3214ATZ

DIMENSIONS ARE IN INCHES

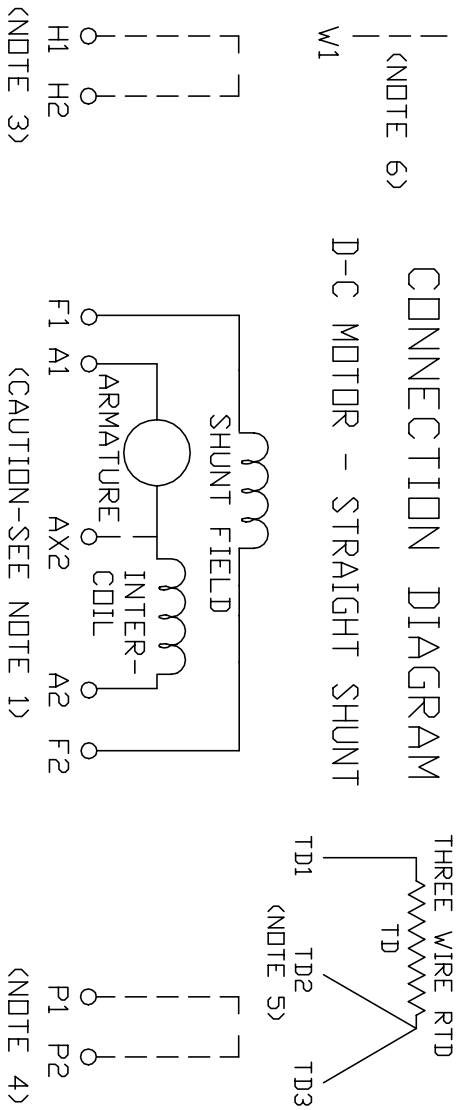
FRAME	XAC	XC	XE	XF	XO
SC3210ATZ-ULC3214ATZ	6.75	3.25	8.50	19.25	28.00

FRAME	A	D(1)	E	C	H	HG	J	O	P	T	BA	K	FK	STO. LG.(8)	BK
SC3210ATZ-ULC3214ATZ	15.50	8.00	6.25	.75	.69	2.25	3.00	15.81	15.62	3.54	5.25	6.75	7.94	10.44	4.00

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

REV. DESC: LOADED TO BUS	VERSION: 00	TDR: 0000005780087	BALDOR DIMENSION DRAWING, SC3210ATZ - ULC3214ATZ, DPG, FOOT MTG SH 1 of 1
REV. LTR: -	REVISED: 03:36:51 01/28/2011	BY: CONNAS	
FILE: \RGG\00016\040			

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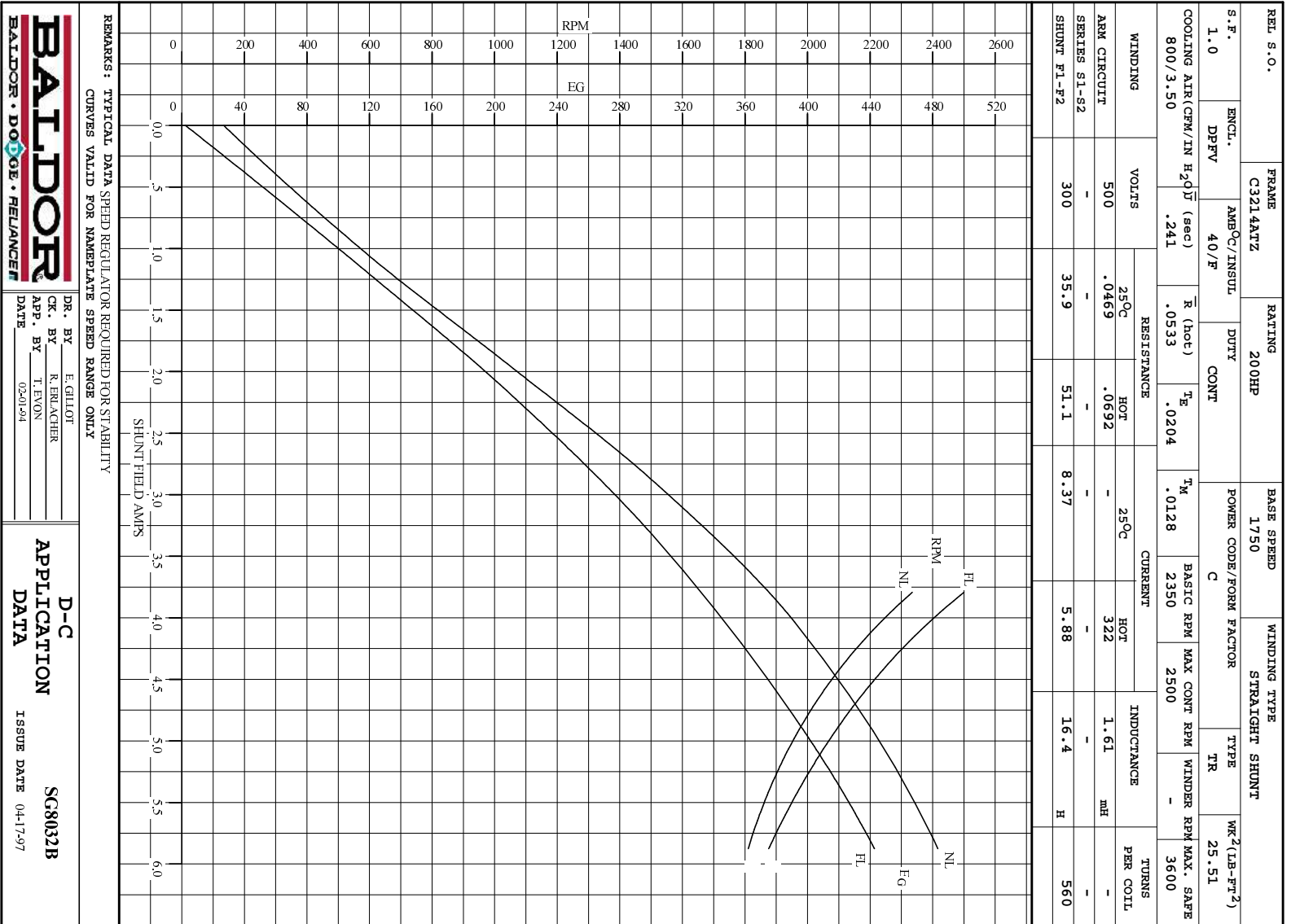
ROTATION FACING COMMUTATOR END

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 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. _____

 RELIANCE ELECTRIC CLEVELAND, OHIO 44117 U.S.A.	REC. BY <u>N.L. EVANS</u> CK. BY <u>N. JESCHKE</u> APP. BY <u>E. J. HINER</u> DATE <u>5-5-69</u>
CONNECTION DIAGRAM 406770-6 ORIGINAL AT RCC	

C/R 244907, 290048, 354478, 354480




REL. S.O.	FRAME	RATING	RPM	ARM. VOLTS	ARM. AMPS
	C3214ATZ	200HP	1750	500	322
WINDING TYPE		S.F.	ENCL.	AMB °C/INSUL	DUTY
STRAIGHT SHUNT		1.0	DPFV	40/F	CONT
					300
POWER CODE	TYPE	WK 2 (LB-FT 2)	HOT ARM. CIR. RES.	FLD. AMPS@25 °C	HOT FIELD RES
C	TR	25.51	.0691	8.36	51.0

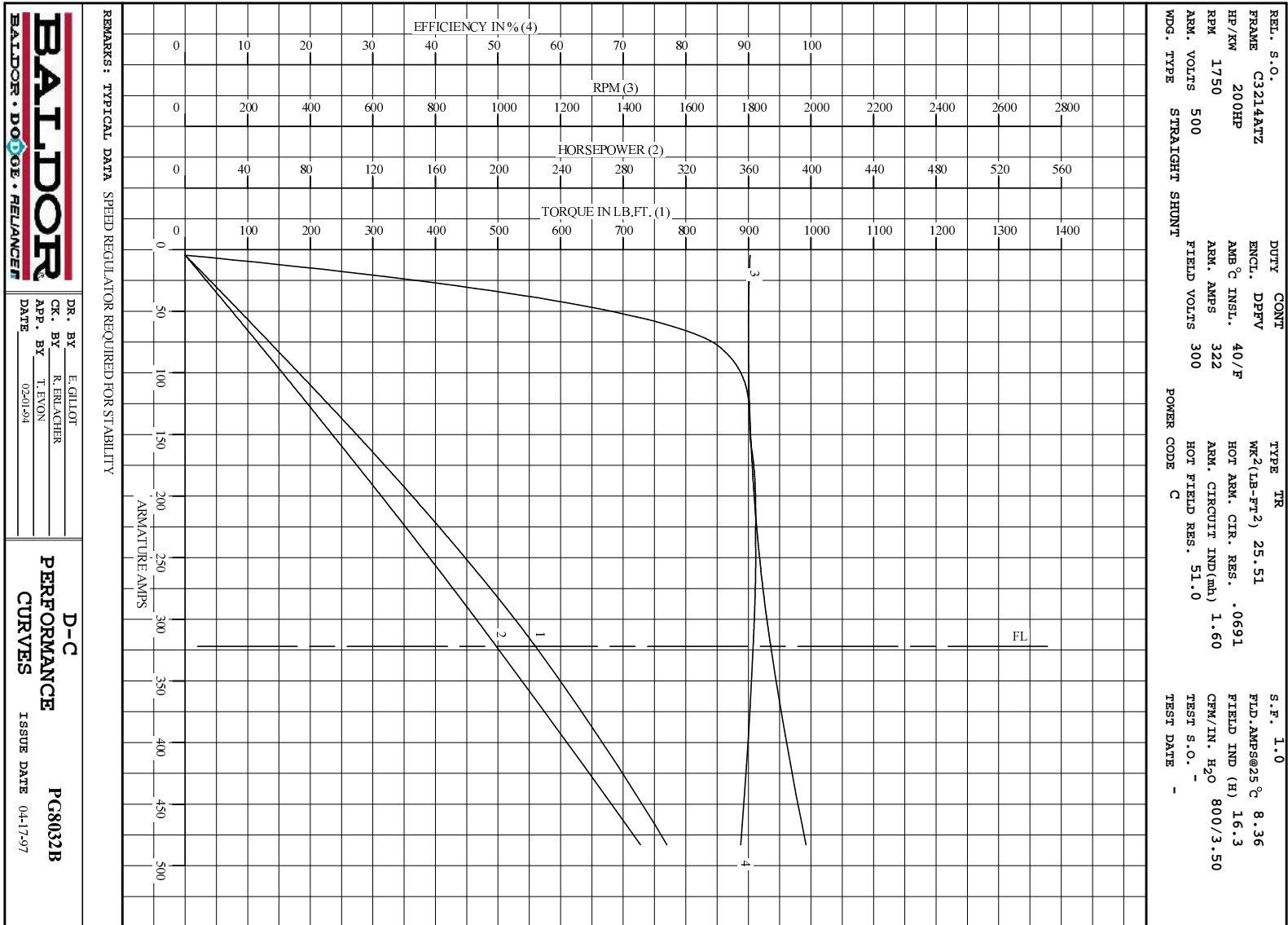
ARM. CIR. IND. (mh)	FIELD IND. (H)	COOLING AIR (CFM/IN H 20)	TURNS PER COIL SHUNT/SERIES	TEST DATE
1.60	16.3	800/3.50	560/.00000	-

LOAD PERFORMANCE					
LOAD	AMPERES	TORQUE IN LB.-FT.	OUTPUT IN HP	RPM	% EFFICIENCY
NO LOAD	4.5	0	0	1806	0
1/4	81	145	49.7	1800	85.8
2/4	161	294	101	1809	90.5
3/4	242	433	151	1832	91.2
4/4	322	560	199	1872	90.8
O.L.	483	770	291	1984	88.8

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
5.87	1805	1871	483	442
5.35	1885	1981	463	419
4.83	1990	2112	438	393
4.31	2135	2279	409	364
3.79	2334	2500	374	332

REMARKS: TYPICAL DATA
 MAXIMUM SAFE SPEED = 3600 RPM
 SPEED REGULATOR REQUIRED FOR STABILITY

	DR. BY E. GILLIOT	D-C MOTOR PERFORMANCE DATA D68032B ISSUE DATE 04-17-97
	CK. BY K. BRITCHER	
	APP. BY T. EVON DATE 02-01-94	



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DR. BY E. GILLIOT
CK. BY R. ERLACHER
APP. BY T. EVON
DATE 02/01/94

D-C
PERFORMANCE
CURVES ISSUE DATE 04-17-97
PG8032B