

BALDOR® • *RELIANCE*

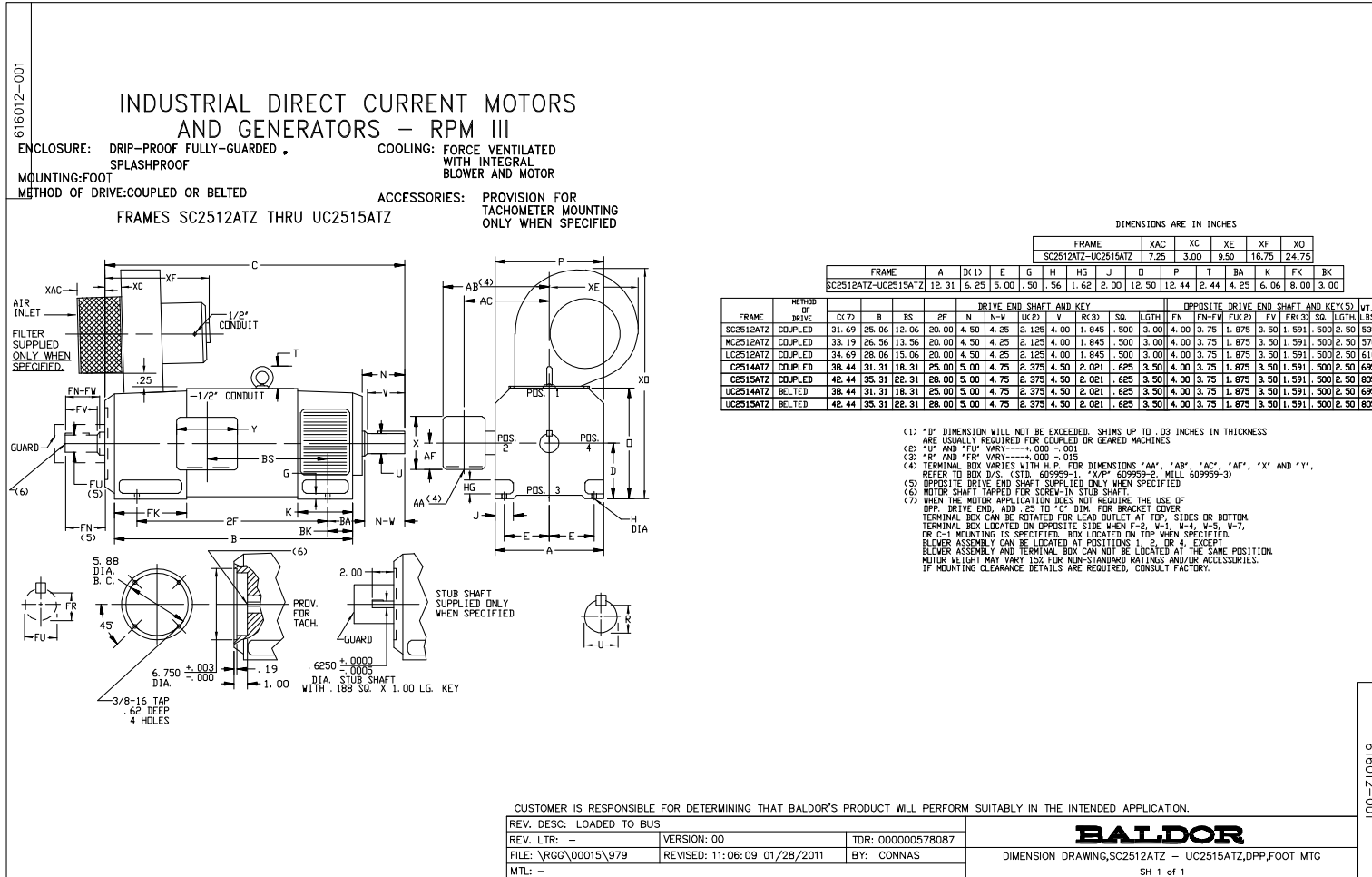
Product Information Packet

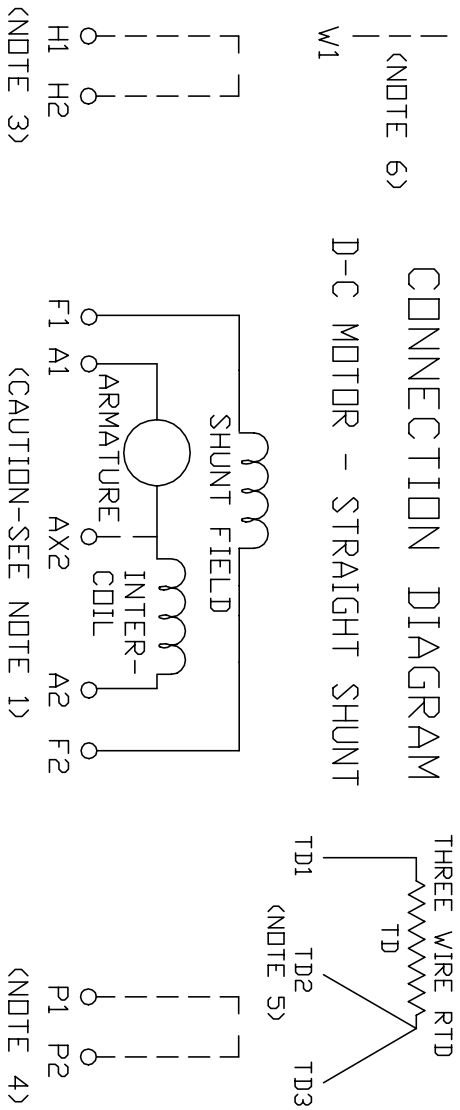
D50100R-BV

100HP, 1750RPM, DC, 2515ATZ, DPG-FV,

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Part Detail			
Type:	DC	Prod. Type:	TR
Power Code:	C	Weight:	805
Frame Group:	C 2515ATZ	Mounting Pos.:	F1
HP:	100	Enclosure:	DPFV
RPM:	1750/2000	Wound:	STR. SHUNT
Service Factor:	1.0	Arm V:	500
Arm A:	167.00	Field V:	300
Field A:	6.70	Field A Hot:	4.84/4.07
Insulation Class:	F	Ambient:	40
Duty:	CONT	DE Bearing:	65BC03J30X
ODE Bearing:	50BC02J30X	Brushes:	419904-51AC
Brush Qty.:			





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. _____



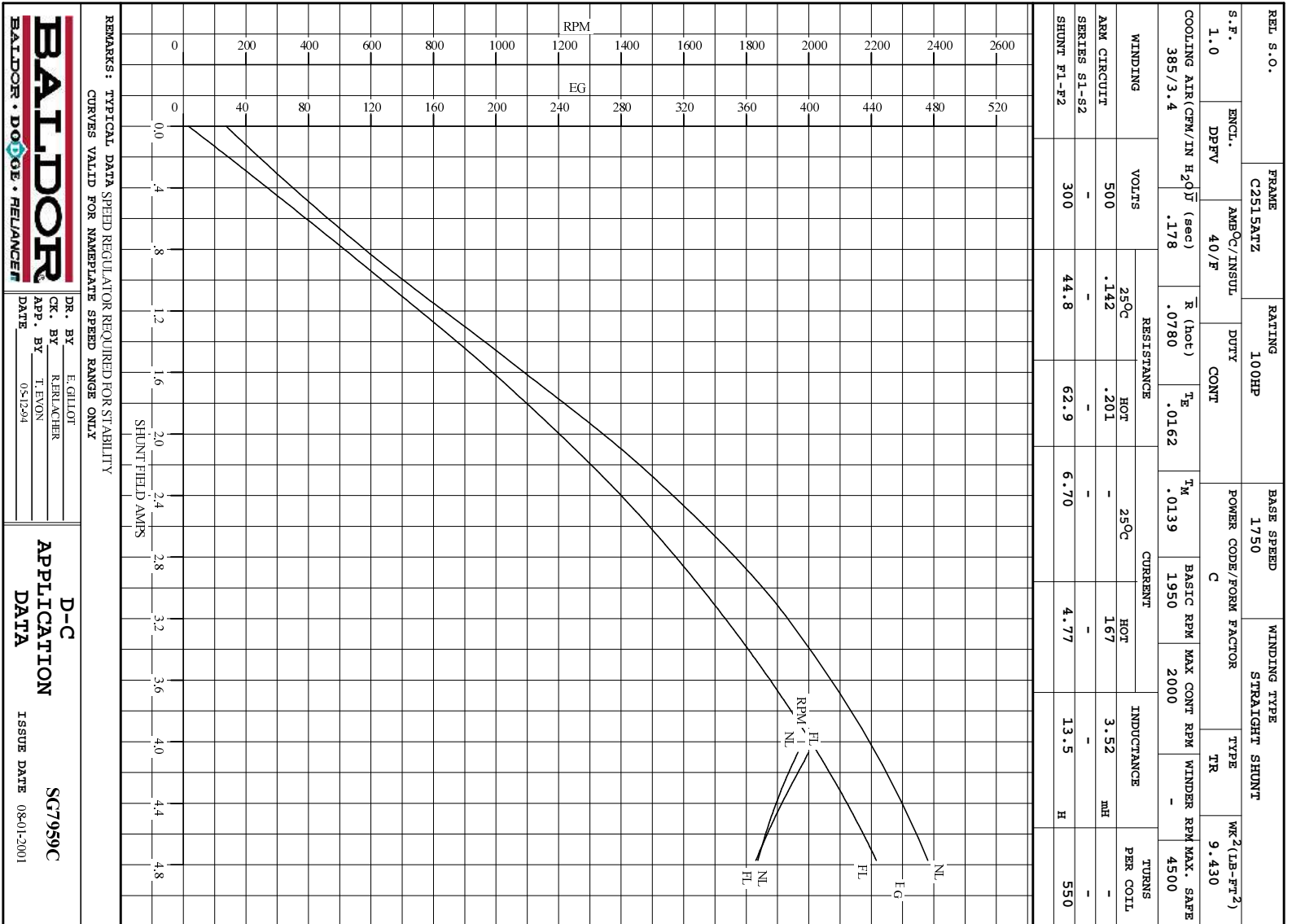
Rev. by N.L. EVANS
 CK. BY N. JESCHKE
 App. BY E. J. HINER
 DATE 5-5-69

**CONNECTION
 DIAGRAM**

406770-6

ORIGINAL AT RCC

C/R 244907, 290048, 354478, 354480




REL. S.O.	FRAME	RATING	RPM	ARM. VOLTS	ARM. AMPS
	C2515ATZ	100HP	1750	500	167
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	9.430	.200	6.70
					62.8

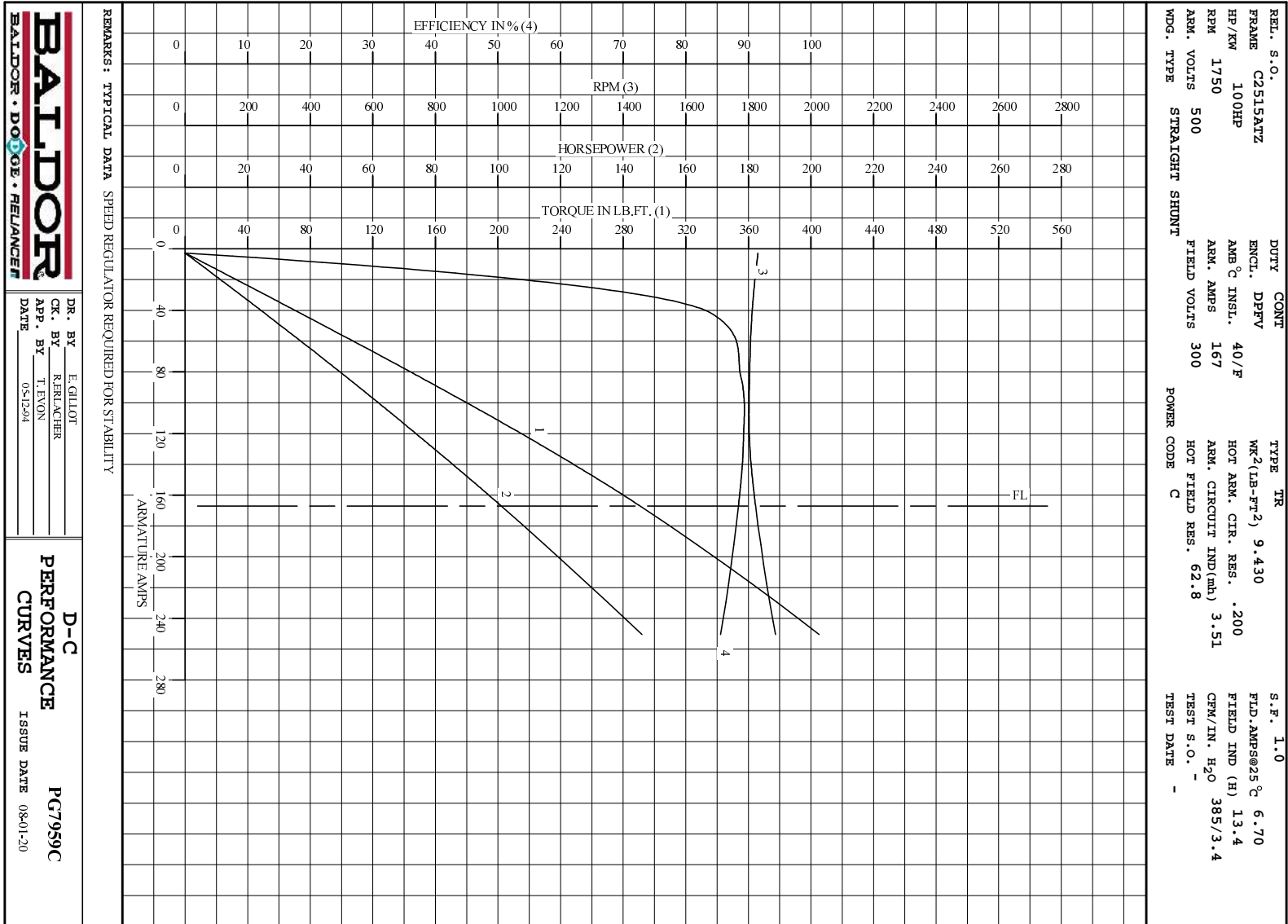
ARM. CIR. IND. (mh)	FIELD IND. (H)	COOLING AIR (CFM/IN H 20)	TURNS PER COIL SHUNT/SERIES	TEST DATE
3.51	13.4	385/3.4	550/.00000	-

LOAD PERFORMANCE					
LOAD	AMPERES	TORQUE IN LB.-FT.	OUTPUT IN HP	RPM	% EFFICIENCY
NO LOAD	2.8	0	0	1831	0
1/4	42	73.5	25.4	1812	84.0
2/4	84	150	51.7	1804	88.8
3/4	125	224	76.9	1804	89.2
4/4	167	291	101	1823	88.4
O.L.	251	405	146	1887	85.6

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	
4.77	1830	1823	476	443	
4.59	1862	1868	468	434	
4.42	1892	1909	460	425	
4.24	1926	1953	452	415	
4.06	1965	2000	443	405	

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

	DR. BY E. GILLIOT	D-C MOTOR PERFORMANCE DATA DG7959C ISSUE DATE 08-01-2001
	CK. BY K. REICHER APP. BY T. EVON DATE 05-12-94	



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DR. BY E.GILLIOT
CK. BY R.RELACHER
APP. BY T. EYON
DATE 05/29/14

D-C
PERFORMANCE
CURVES

PG7959C
ISSUE DATE 08/01/20