

BALDOR® • RELIANCE

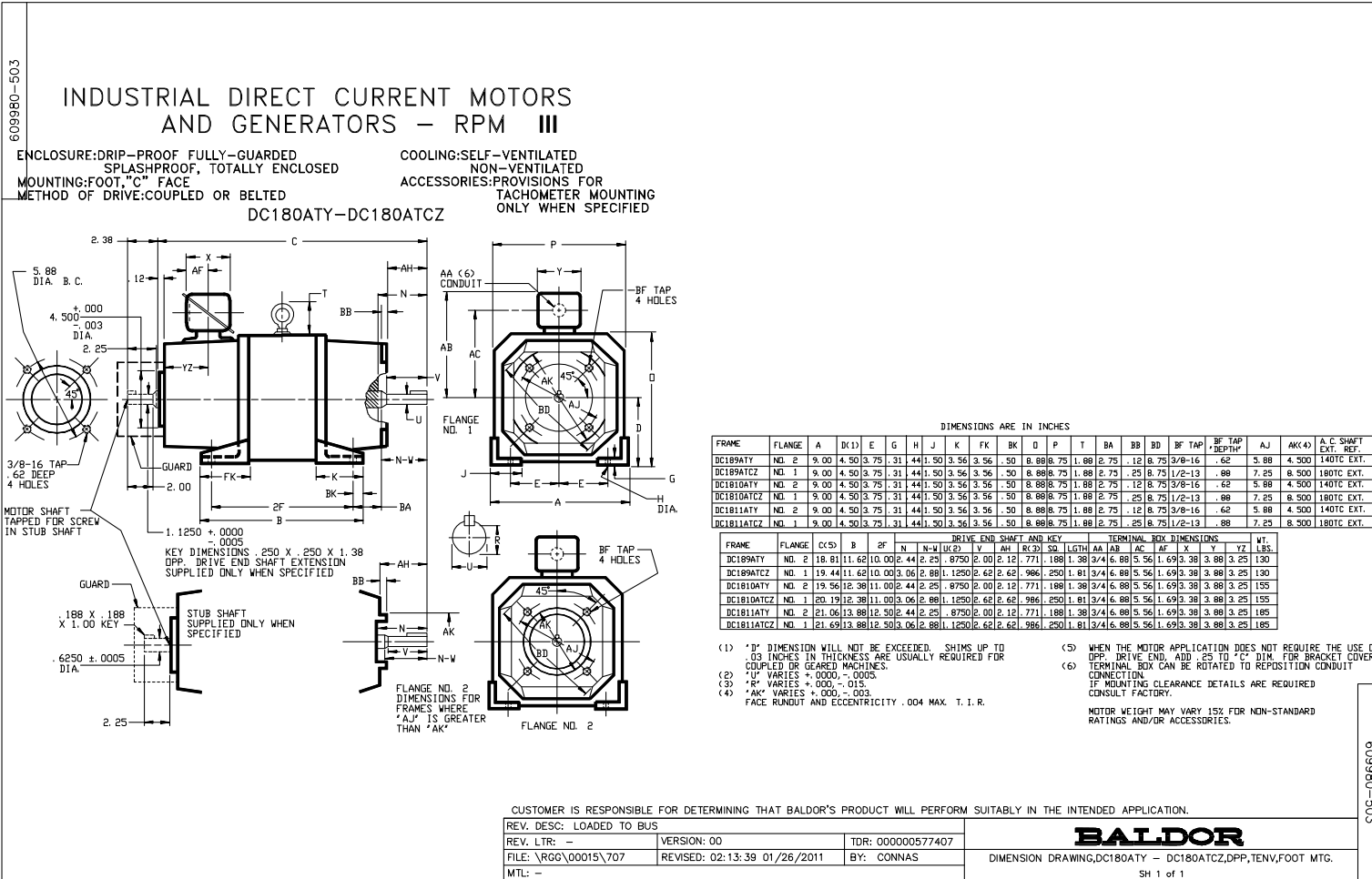
Product Information Packet

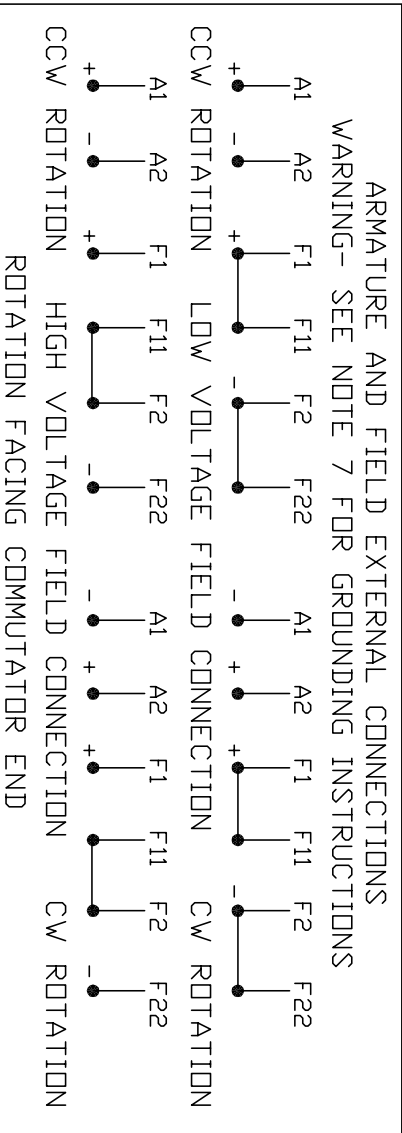
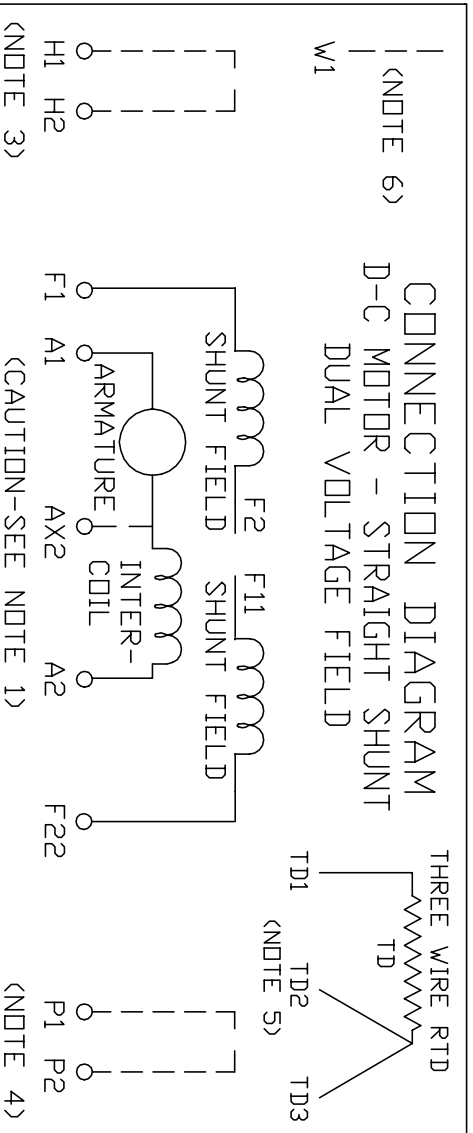
CD1803R

3 1750 9 TENV DC1811ATCZ

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Part Detail			
Type:	DC	Prod. Type:	TR
Power Code:	2/2-230-60-0	Weight:	205
Frame Group:	DC 1811ATCZ	Mounting Pos.:	F3
HP:	3	Enclosure:	TENV
RPM:	1750	Wound:	STR. SHUNT
Service Factor:	1.0	Arm V:	180
Arm A:	14.10	Field V:	200
Field A:	1.17	Field A Hot:	.80
Insulation Class:	F	Ambient:	40
Duty:	CONT	DE Bearing:	30BC02JPP30A
ODE Bearing:	30BC02JPG30A	Brushes:	419904-50A
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 WEAR SENSORS, 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 MOTOR GROUNDING. GROUND LEAD, WHEN PROVIDED, WILL BE GREEN.

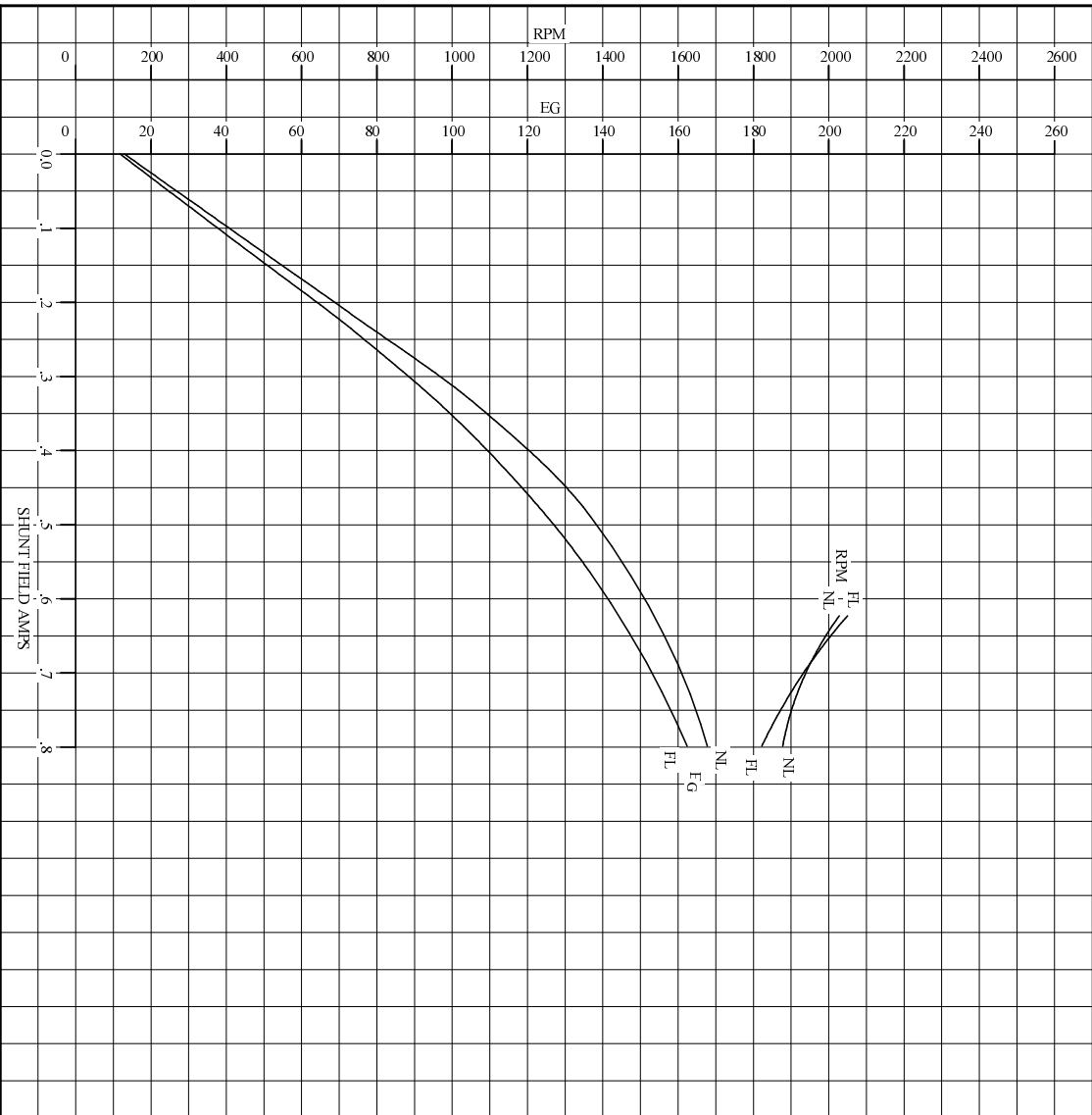
CUSTOMER _____ RELIANCE _____
ORDER NO. _____ S.D. NO. _____

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

CONNECTION DIAGRAM
406770-7
ORIGINAL AT RCC

C/R 244907, 290048, 354478, 354480

REF. S.O.	FRAME	RATING	BASE SPEED	WINDING TYPE
	DC1811AT	3.00HP	1750	STRAIGHT SHUNT
S.F. ENCL.	AMB°C/INSUL	DUTY CONT	POWER CODE/FORM FACTOR	TYPE
1.0 TENV	40/F		2/2 230-60-0	TR
COOLING AIR (CFM/IN H ₂ O)	̄ (sec)	T _R (hot)	T _M	BASIC RPM
-/-	.498	.0645	.0322	1950
				MAX CONT RPM
				2050
				WINDER RPM MAX. SAFE
				4500
WINDING	VOLTS	RESISTANCE		CURRENT
		25°C	HOT	25°C
ARM CIRCUIT	180	.428	.639	14.1
SERIES S1-S2	-	-	-	-
SHUNT F1-F2	200	171	250	1.17
				INDUCTANCE
				40.2
				TURNS PER COIL
				1650



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

D-C APPLICATION DATA

DR. BY R. REILACHER

CK. BY R. REILACHER

APP. BY T. SIMON

DATE 08-04-88

SC4610A

ISSUE DATE 08-04-88

C/R


REL S.O.	FRAME	RATING	RPM	ARM. VOLTS	ARM. AMPS
	DC1811AT	3.00HP	1750	180	14.1
WINDING TYPE	S.F.	ENCL.	AMB °C/INSUL	DUTY	FIELD VOLTS
STRAIGHT SHUNT	1.0	TENV	40/F	CONT	200
POWER CODE	TYPE	WK ² (LB-FT ²)	HOT ARM.CIR.RES.	FLD. AMPS@25 °C	HOT FIELD RES
2/2 230-60-0	TR	.7906	.638	1.16	250

ARM. CIR. IND. (mh)	FIELD IND. (H)	COOLING AIR(CFM/IN H 20)	TURNS PER COIL SHUNT/SERIES	TEST DATE
9.47	40.2	-/-	1650/.00000	

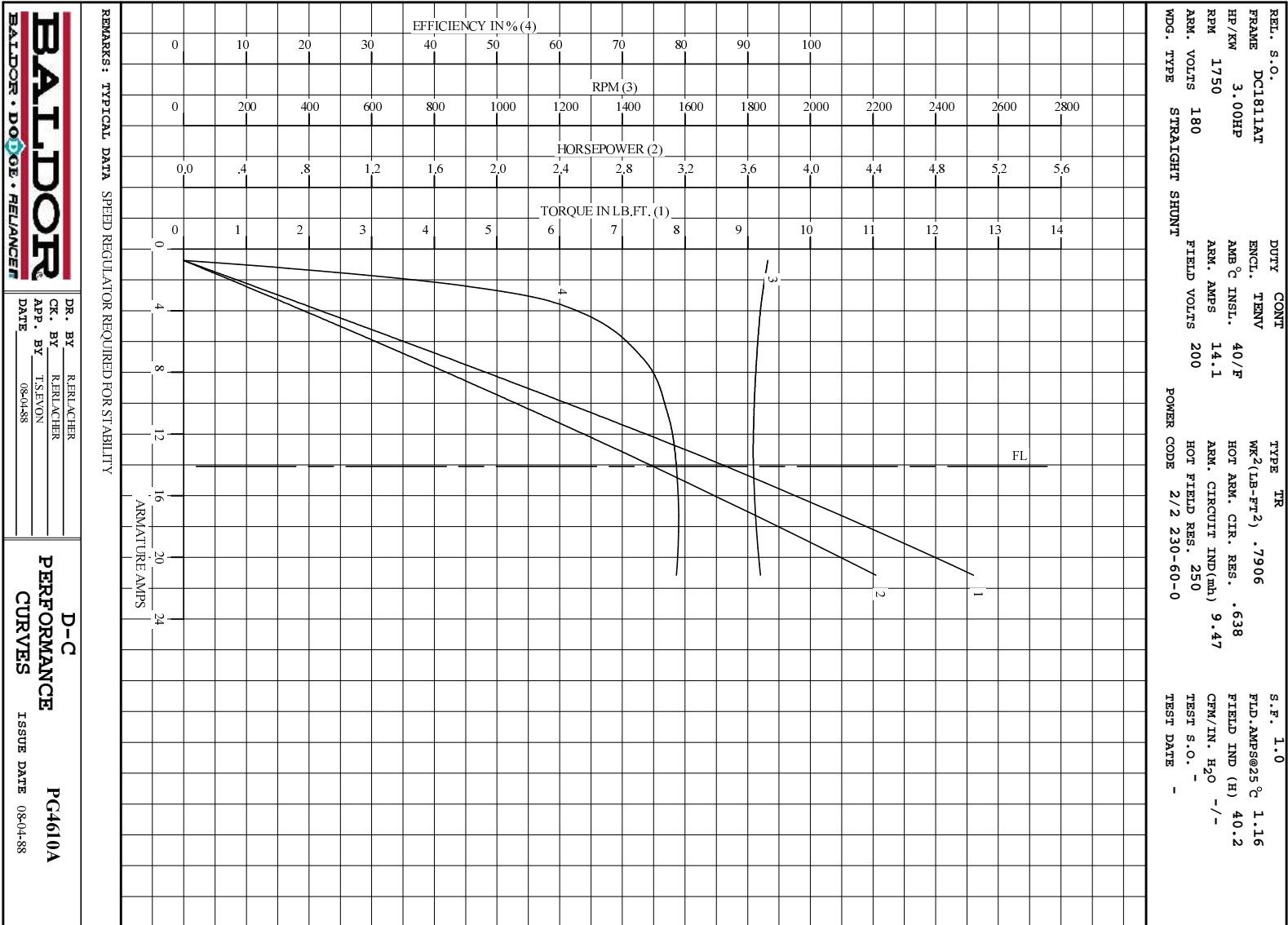
LOAD PERFORMANCE					
LOAD	AMPERES	TORQUE IN LB.-FT.	OUTPUT IN HP	RPM	% EFFICIENCY
NO LOAD	.75	0	0	1865	0
1/4	3.5	1.87	.656	1843	59.6
2/4	7.0	4.20	1.46	1829	73.2
3/4	11	6.48	2.24	1820	77.2
4/4	14	8.66	3.00	1818	78.6
O.L.	21	12.6	4.42	1841	78.6

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	
.798	1864	1818	167	162	
.754	1898	1867	165	158	
.710	1929	1918	161	154	
.666	1972	1979	158	149	
.622	2027	2050	154	144	

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

	DR. BY R. BRÄGGER	D-C MOTOR PERFORMANCE DATA DG4610A ISSUE DATE 08-04-88
	CK. BY R. BRÄGGER APP. BY T.S. EVON DATE 08-04-88	

C/R -



C/R



DR. BY RREILACHER
 CK. BY T.S.MON
 DATE 08-04-88

D-C PERFORMANCE CURVES
 PC4610A
 ISSUE DATE 08-04-88