

BALDOR® • RELIANCE

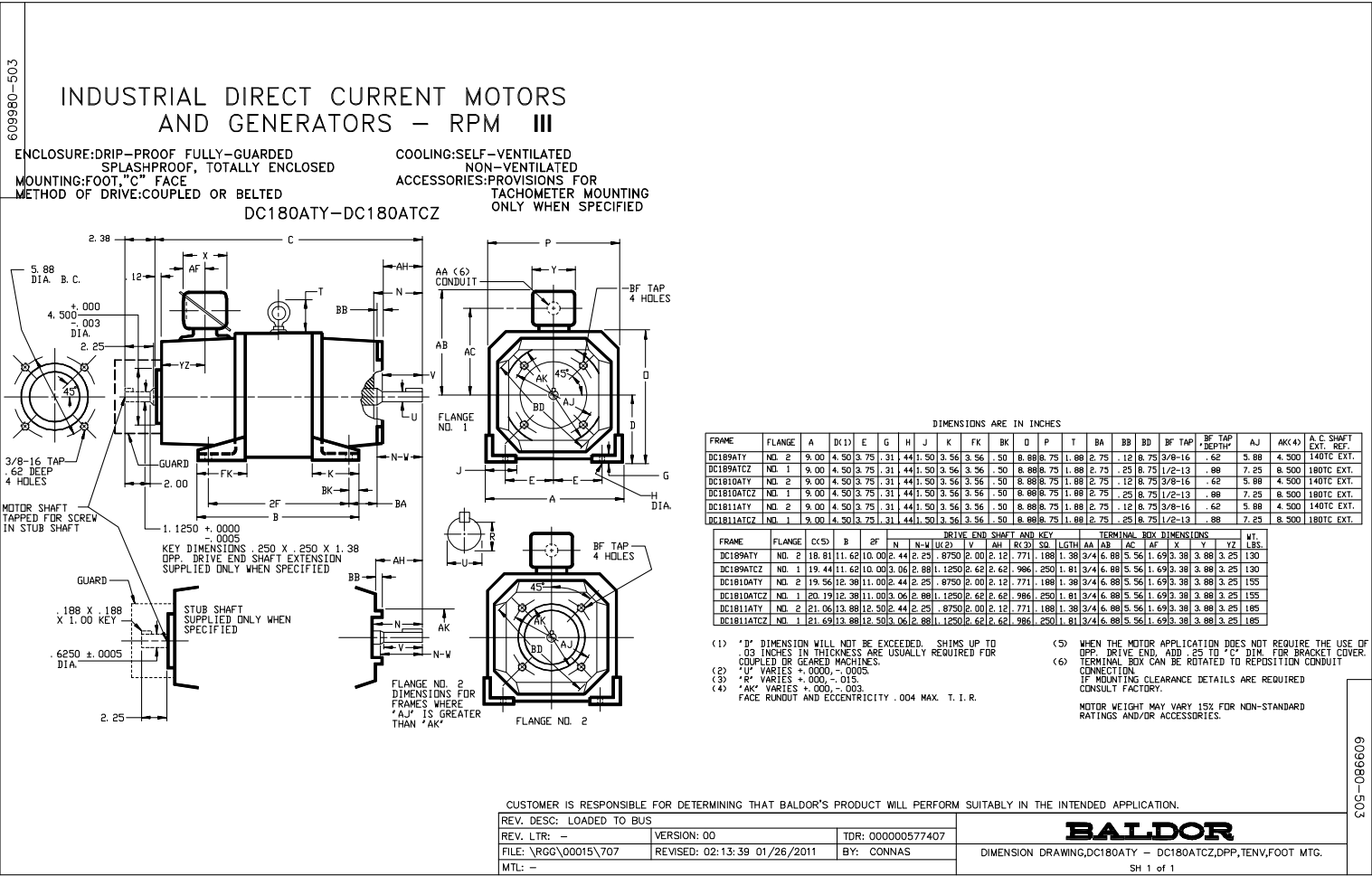
Product Information Packet

CDD1803R

3HP,1750RPM,DC,189ATCZ,DPG,

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Part Detail			
Type:	DC	Prod. Type:	TR
Power Code:	2/2-230-60-0	Weight:	160
Frame Group:	DC 0189ATCZ	Mounting Pos.:	F3
HP:	3	Enclosure:	DPG
RPM:	1750	Wound:	STR. SHUNT
Service Factor:	1.0	Arm V:	180
Arm A:	14.80	Field V:	200
Field A:	.95	Field A Hot:	.73
Insulation Class:	F	Ambient:	40
Duty:	CONT	DE Bearing:	30BC02JPP30A
ODE Bearing:	30BC02JPG30A	Brushes:	419904-50A
Brush Qty.:			



CONNECTION DIAGRAM
D-C MOTOR - STRAIGHT SHUNT
DUAL VOLTAGE FIELD
W1

NOTE 6)

SHUNT FIELD

ARMATURE

INTER-COIL

SHUNT FIELD

H1 H2

F1 A1

AX2 A2

F22

P1 P2

NOTE 3)

CAUTION-SEE NOTE 1)

NOTE 4)

THREE WIRE RTD
TD
TD1 TD2 TD3
NOTE 5)

ARMATURE AND FIELD EXTERNAL CONNECTIONS
WARNING- SEE NOTE 7 FOR GROUNDING INSTRUCTIONS

CCW ROTATION

LOW VOLTAGE FIELD CONNECTION

CW ROTATION

CCW ROTATION

HIGH VOLTAGE FIELD CONNECTION

CW ROTATION

ROTATION FACING COMMUTATOR END

A1 A2 F1 F11 F2 F22

A1 A2 F1 F11 F2 F22

A1 A2 F1 F11 F2 F22

A1 A2 F1 F11 F2 F22

A1 A2 F1 F11 F2 F22

A1 A2 F1 F11 F2 F22

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 MOTOR GROUNDING. GROUND LEAD, WHEN PROVIDED, WILL BE GREEN.

CUSTOMER

CUSTOMER

RELANCE

ORDER NO.

S.D. NO.

RELANCE ELECTRIC

CLEVELAND, OHIO 44117 U.S.A.

DR. BY N.L. EVANS

CHK. BY N. JESCHKE

APP. BY E.J. HINER

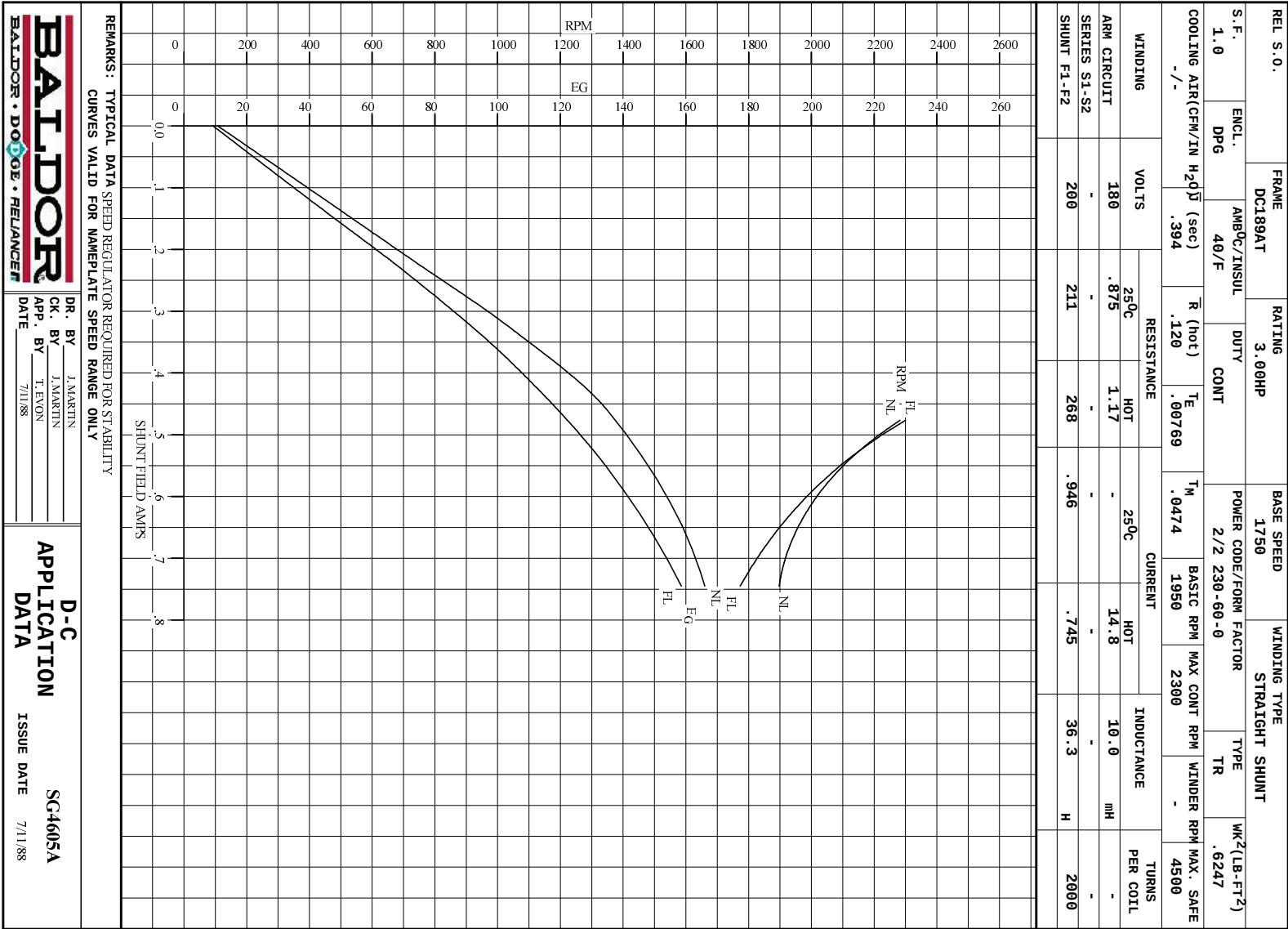
DATE 5-5-69

CONNECTION DIAGRAM

406770-7

ORIGINAL AT RCC

C/R 244907, 290048, 354478, 354480



REL S.O.	FRAME	RATING	RPM	ARM. VOLTS	ARM. AMPS
	DC189AT	3.00HP	1750	180	14.8
WINDING TYPE					
	S.F.	ENCL.	AMB °C/INSUL	DUTY	FIELD VOLTS
STRAIGHT SHUNT	1.0	DPG	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	.6247	1.17	.946	268
ARM. CIR. IND. (mh)					
	FIELD IND. (H)	COOLING AIR(CFM/IN H 20)		TURNS PER COIL SHUNT/SERIES	TEST DATE
10.0	36.3	-/-		2000/.00000	-
LOAD PERFORMANCE					
LOAD	AMPERES	TORQUE IN LB.-FT.	OUTPUT IN HP	RPM	% EFFICIENCY
NO LOAD	.60	0	0	1881	0
1/4	3.7	2.06	.722	1844	62.9
2/4	7.4	4.47	1.54	1810	72.5
3/4	11	6.81	2.31	1783	74.4
4/4	15	8.99	3.03	1770	74.1
0.L.	22	12.9	4.32	1763	71.7
RPM VS. FIELD AMPS					
FIELD AMPS	RPM N.L.	RPM F.L.	Eg N.L. @ BASE SPEED	Eg F.L. @ BASE SPEED	
.745	1881	1770	166	158	
.678	1932	1856	162	151	
.610	2002	1965	157	143	
.543	2114	2107	148	133	
.476	2282	2300	138	122	
REMARKS: TYPICAL DATA					
MAXIMUM SAFE SPEED = 4500 RPM					
SPEED REGULATOR REQUIRED FOR STABILITY					

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DR. BY J. MARTIN
CK. BY J. MARTIN
APP. BY T. EVON
DATE 7/11/88

D-C MOTOR
PERFORMANCE
DATA
DG4605A
ISSUE DATE 7/11/88

