

BALDOR® • RELIANCE

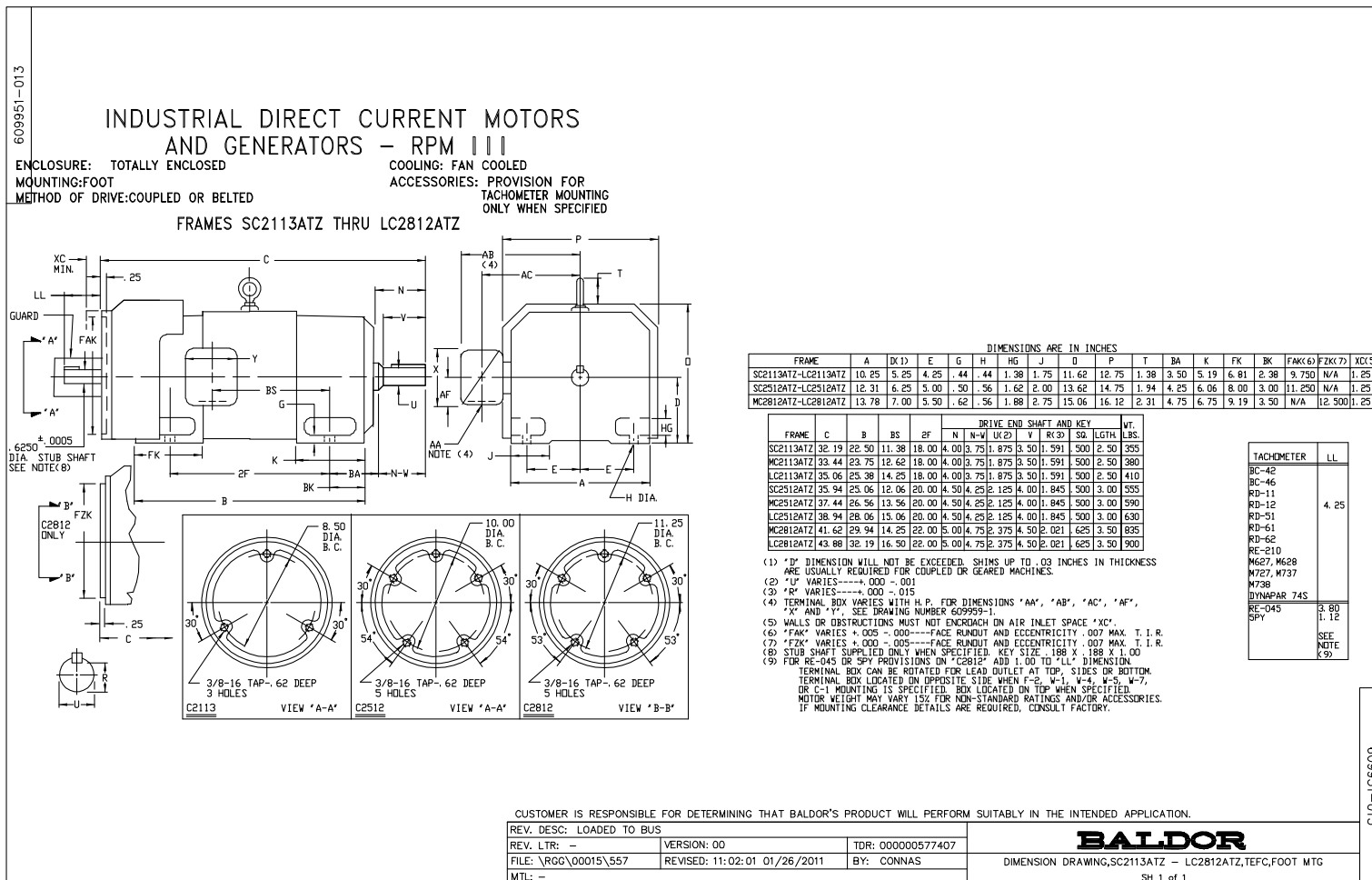
Product Information Packet

D5530R

30 1750/2300 LC2812ATZ TEFC 500V

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Part Detail			
Type:	DC	Prod. Type:	TR
Power Code:	C	Weight:	895
Frame Group:	LC 2812ATZ	Mounting Pos.:	F1
HP:	30	Enclosure:	TEFC
RPM:	1750/2300	Wound:	STAB SHUNT
Service Factor:	1.0	Arm V:	500
Arm A:	50.00	Field V:	300
Field A:	1.74	Field A Hot:	1.21/.90
Insulation Class:	F	Ambient:	40
Duty:	CONT	DE Bearing:	65BC03J30X
ODE Bearing:	55BC02J30X	Brushes:	419904-51AD
Brush Qty.:			



CONNECTION DIAGRAM
D-C MOTOR - STAB. SHUNT
DUAL VOLTAGE FIELD

THREE WIRE RTD
TD
TD1 TD2 TD3
(NOTE 6)

W1
(NOTE 7)

SHUNT FIELD F2
INTER-COIL AX2
ARMATURE H1 H2 F1 A1
(NOTE 4) (CAUTION-SEE NOTE 1)

SHUNT FIELD F11
SERIES FIELD S2 S3
SERIES FIELD S4 F22 P1 P2
(NOTE 2) (NOTE 5)

ARMATURE AND FIELD EXTERNAL CONNECTIONS
WARNING- SEE NOTE 8 FOR GROUNDING INSTRUCTIONS

CCW ROTATION LOW VOLTAGE FIELD CONNECTION
A1 A2 S1 S2 F1 F11 F2 F22
A1 S1 A2 S2 F1 F11 F2 F22

CCW ROTATION HIGH VOLTAGE FIELD CONNECTION
A1 A2 S1 S2 F1 F11 F2 F22
A1 S1 A2 S2 F1 F11 F2 F22

CW ROTATION
A1 A2 S1 S2 F1 F11 F2 F22
A1 S1 A2 S2 F1 F11 F2 F22

1. CAUTION — ARMATURE AND SERIES FIELD MAY HAVE MULTIPLE LEADS. CONNECT ALL LUGS WITH THE SAME MARKING TOGETHER.

2. OPTIONAL SERIES FIELD IS MARKED S3 AND S4. FOR CUMULATIVE SERIES FIELD, CONNECT S3 TO S2 AND CONNECT S4 TO NEGATIVE. FOR DIFFERENTIAL SERIES FIELD CONNECT S4 TO S2 AND S3 TO NEGATIVE.

3. OPTIONAL CONTROL SIGNAL LEAD IS MARKED AX2. ALWAYS TAKE INTERPOLE DROP BETWEEN A2 AND AX2. NOTE: NEMA DESIGNATION FOR AX2 IS LETTER C.

4. SPACE HEATERS, WHEN PROVIDED, WILL HAVE LEADS MARKED H1 AND H2, H3, H4, ETC.

5. THERMAL PROTECTOR, WHEN PROVIDED, WILL HAVE LEADS MARKED P1 AND P2, P3, P4, ETC.

6. WINDING RTDS, WHEN PROVIDED, WILL HAVE LEADS MARKED TD1, TD2, & TD3.

7. BRUSH WEAR SENSOR, WHEN PROVIDED, WILL HAVE LEAD MARKED W1.

8. 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 _____
ORDER NO. _____
S.D. NO. _____

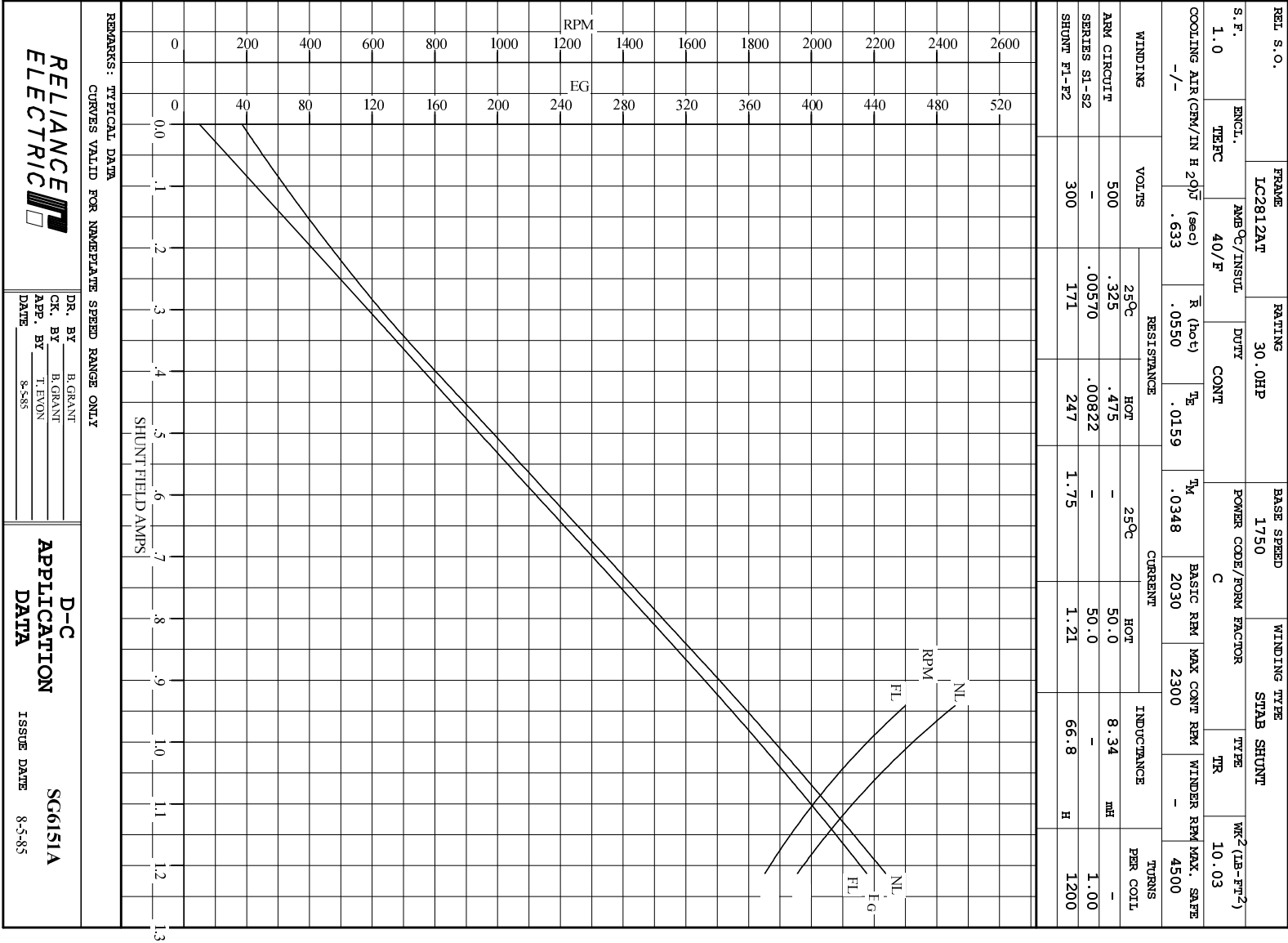
RELIANCE
ELECTRIC
CLEVELAND, OHIO 44117 U.S.A.

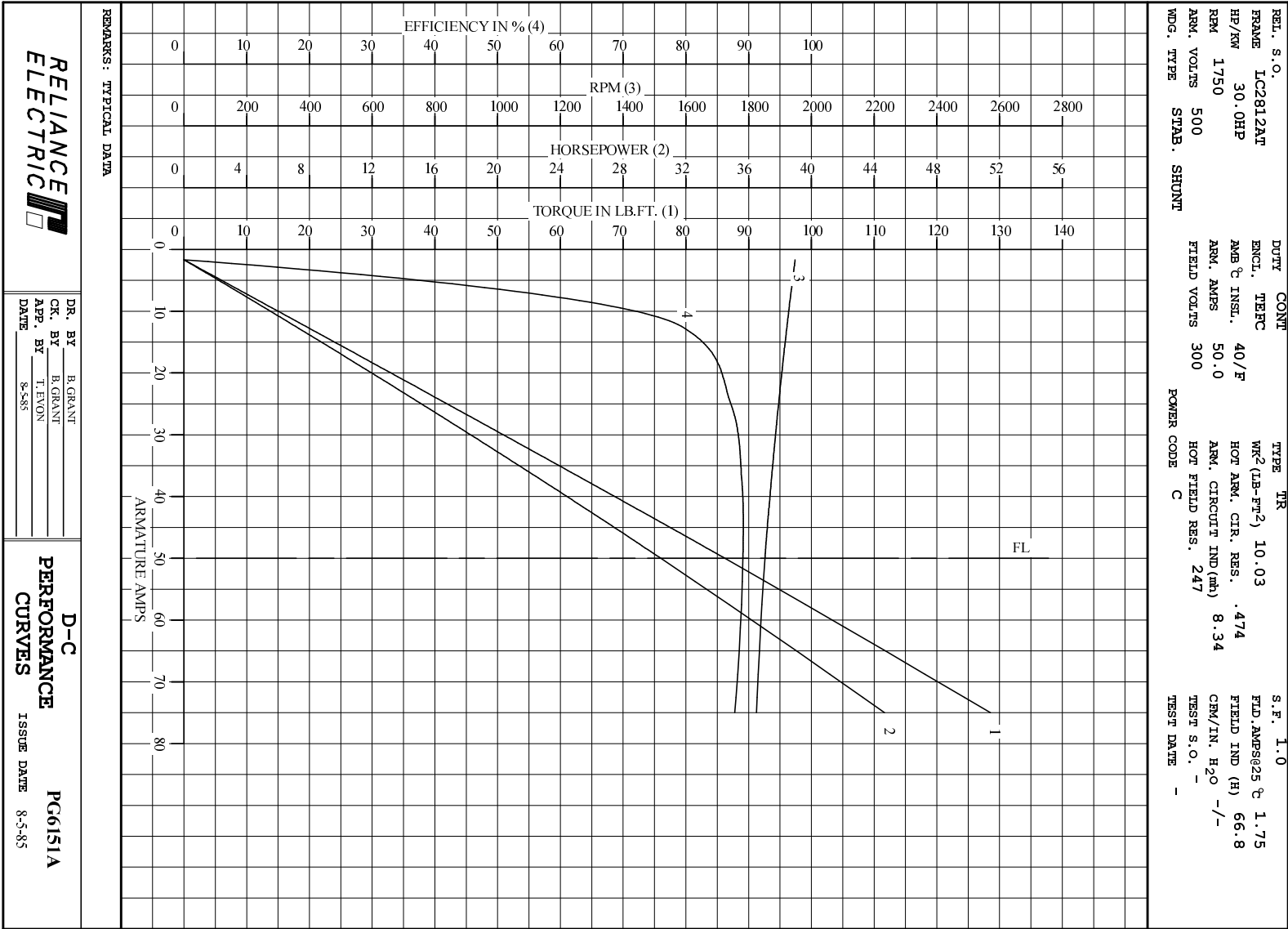
DR. BY N.L. EVANS
CHK. BY N. JESCHKE
APP. BY E.J. HINER
DATE 5-5-69

CONNECTION
DIAGRAM
406770-2
ORIGINAL AT RCC

C/R 244907, 290048, 354478, 354480

REL. S.O.	FRAME	RATING	RPM	ARM. VOLTS	ARM. AMPS
	LC2812AT	30.0HP	1750	500	50.0
WINDING TYPE					
	S.F.	ENCL.	AMB °C/INSUL	DUTY	FIELD VOLTS
STAB. SHUNT	1.0	TEFC	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	10.03	.474	1.75	247
ARM. CIR. IND. (mh)					
	FIELD IND. (H)	COOLING AIR (CFM/IN H 20)		TURNS PER COIL SHUNT/SERIES	TEST DATE
8.34	66.8	-/-		1200/1	-
LOAD PERFORMANCE					
LOAD	AMPERES	TORQUE IN LB.-FT.	OUTPUT IN HP	RPM	% EFFICIENCY
NO LOAD	1.7	0	0	1948	0
1/4	13	19.5	7.14	1922	79.4
2/4	25	42.0	15.1	1895	87.2
3/4	38	64.2	22.9	1872	88.9
4/4	50	86.2	30.4	1852	89.1
O.L.	75	129	44.7	1825	87.8
RPM VS. FIELD AMPS					
FIELD AMPS	RPM N.L.	RPM F.L.	Eg N.L. @ BASE SPEED	Eg F.L. @ BASE SPEED	
1.21	1948	1852	447	435	
1.14	2057	1941	425	414	
1.07	2173	2043	402	392	
1.00	2305	2162	379	369	
.940	2458	2300	355	346	
REMARKS: TYPICAL DATA					
MAXIMUM SAFE SPEED = 4500 RPM					
RELIANCE 		DR. BY <u>B. GRANT</u> CK. BY <u>B. GRANT</u> APP. BY <u>T. EVON</u> DATE <u>8-5-85</u>		D-C MOTOR PERFORMANCE DATA D66151A ISSUE DATE 8-5-85	





RELIANCE
ELECTRIC

DR. BY B. GRANT
CK. BY B. GRANT
APP. BY T. EVON
DATE 8-5-85

D-C
PERFORMANCE
CURVES
PG6151A
ISSUE DATE 8-5-85