

BALDOR® • RELIANCE

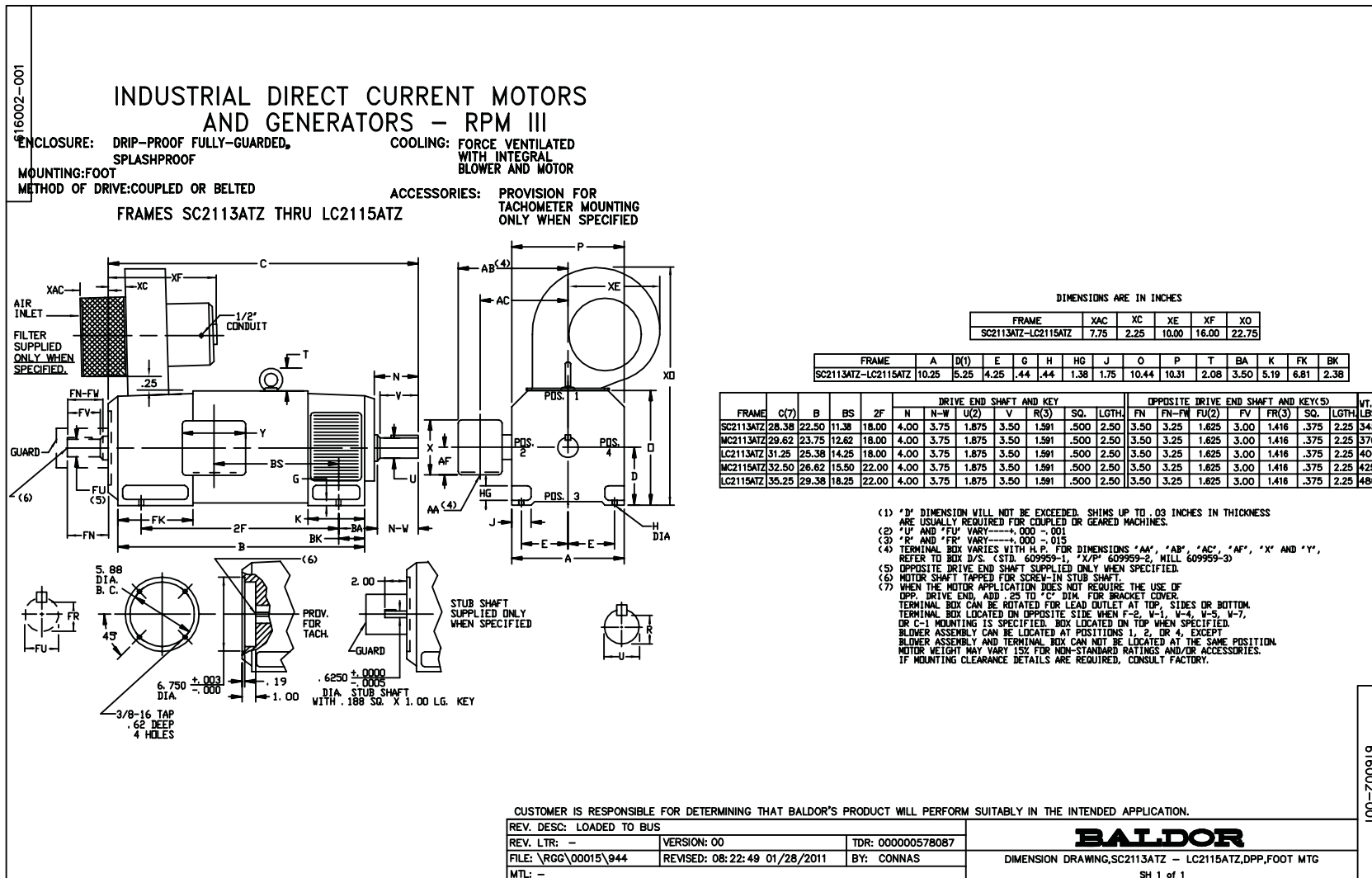
Product Information Packet

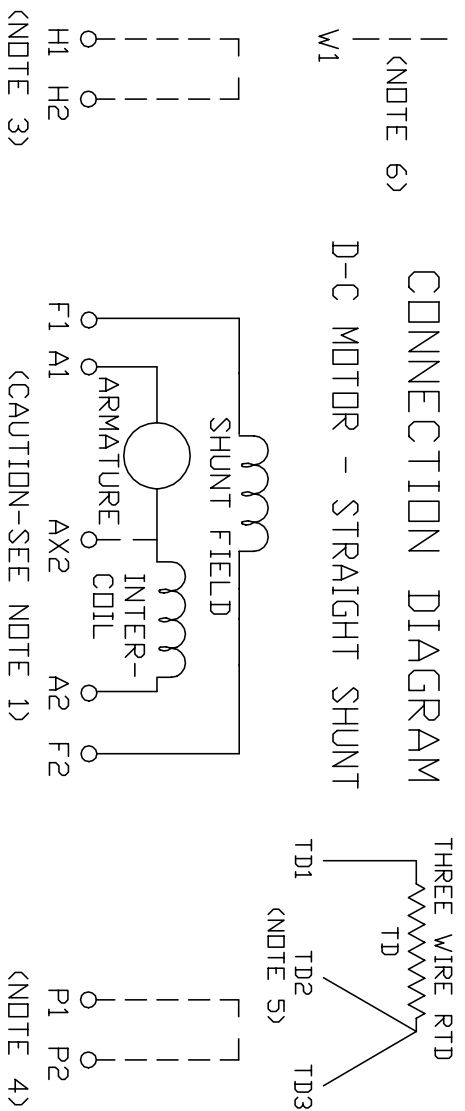
D5050R-BV

50HP,1750RPM,DC,2115ATZ,DPG-FV,

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Part Detail			
Type:	DC	Prod. Type:	TR
Power Code:	C	Weight:	480
Frame Group:	LC 2115ATZ	Mounting Pos.:	F1
HP:	50	Enclosure:	DPFV
RPM:	1750/2100	Wound:	STR. SHUNT
Service Factor:	1.0	Arm V:	500
Arm A:	87.00	Field V:	300
Field A:	3.95	Field A Hot:	2.85/2.36
Insulation Class:	F	Ambient:	40
Duty:	CONT	DE Bearing:	50BC03J30X
ODE Bearing:	45BC02J30X	Brushes:	419904-51AC
Brush Qty.:			





ARMATURE AND FIELD EXTERNAL CONNECTIONS

WARNING- SEE NOTE 7 FOR GROUNDING INSTRUCTIONS



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 LEADS MARKED TD1, TD2, & TD3.
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 _____ CUSTOMER ORDER NO. _____ RELIANCE S.D. NO. _____

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

DR. BY N. L. EVANS
CK. BY N. JUESCHKE
APP. BY E. J. HINGER
DATE 5-5-69

CONNECTION
DIAGRAM

406770-6

ORIGINAL AT RCC

ORIGINAL AT RRC

C/R 244907, 290048, 354478, 354480

REL S.O.	FRAME	RATING	RPM	ARM. VOLTS	ARM. AMPS
	LC2115ATZ	50.0HP	1750	500	87.0
WINDING TYPE					
	S.F.	ENCL.	AMB °C/INSUL	DUTY	FIELD VOLTS
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	3.618	.652	3.94	105
ARM. CIR. IND. (mH)					
	FIELD IND. (H)	COOLING AIR(CFM/IN H 20)		TURN PER COIL SHUNT/SERIES	TEST DATE
9.08	15.1	300/2.25		675/.00000	-
LOAD PERFORMANCE					
LOAD	AMPERES	TORQUE IN LB.-FT.	OUTPUT IN HP	RPM	% EFFICIENCY
NO LOAD	1.3	0	0	1835	0
1/4	22	38.3	13.1	1803	82.9
2/4	44	77.4	26.4	1788	86.6
3/4	65	113	38.6	1790	85.9
4/4	87	145	50.0	1807	83.9
0.L.	131	196	69.9	1874	78.8
RPM VS. FIELD AMPS					
FIELD AMPS	RPM N.L.	RPM F.L.	Eg N.L. @ BASE SPEED	Eg F.L. @ BASE SPEED	
2.85	1835	1806	474	425	
2.70	1887	1869	462	412	
2.55	1939	1936	449	397	
2.41	2000	2012	435	382	
2.26	2072	2100	420	367	
REMARKS: TYPICAL DATA MAXIMUM SAFE SPEED = 4500 RPM SPEED REGULATOR REQUIRED FOR STABILITY					
		DR. BY R. ERLACHER CK. BY K. ERACHER APP. BY T.S. EVON DATE 08-08-95		D-C MOTOR PERFORMANCE DATA D68475A ISSUE DATE 09-25-95	

