

# **BALDOR**® • ***RELIANCE***

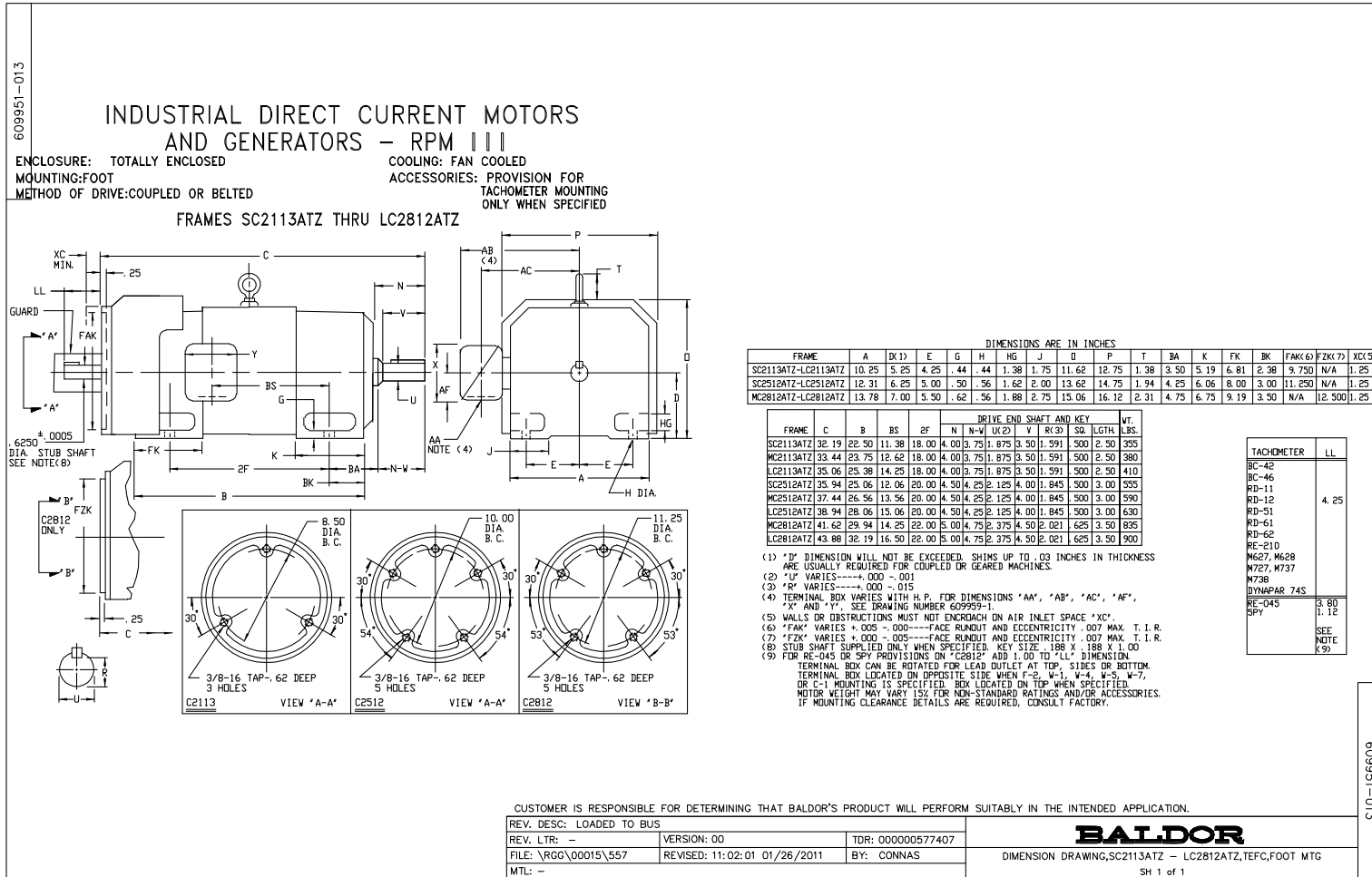
## **Product Information Packet**

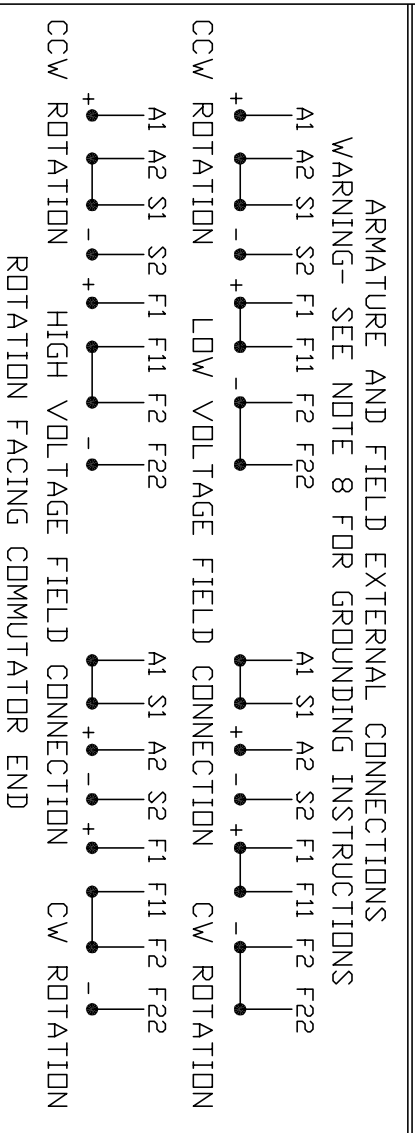
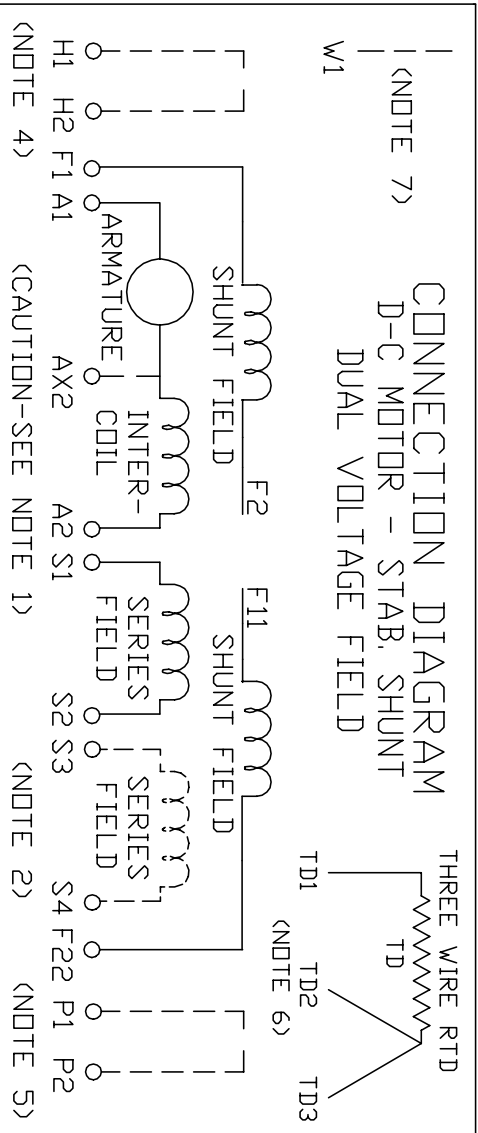
# **D5515R**

**15HP, 1750RPM, DC, 2512ATZ, TEFC,**

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Part Detail			
Type:	DC	Prod. Type:	TR
Power Code:	C	Weight:	547
Frame Group:	SC 2512ATZ	Mounting Pos.:	F1
HP:	15	Enclosure:	TEFC
RPM:	1750/2300	Wound:	STAB SHUNT
Service Factor:	1.0	Arm V:	500
Arm A:	25.60	Field V:	300
Field A:	1.71	Field A Hot:	1.20/.81
Insulation Class:	F	Ambient:	40
Duty:	CONT	DE Bearing:	60BC03J30X
ODE Bearing:	50BC02J30X	Brushes:	419904-51AB
Brush Qty.:			






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 \_\_\_\_\_ RELIANCE \_\_\_\_\_  
 ORDER NO. \_\_\_\_\_ S.O. NO. \_\_\_\_\_

RELIANCE ELECTRIC CLEVELAND, OHIO 44117 U.S.A.	DR. BY N.L. EVANS CK. BY N. JESCHKE APP. BY E. J. HINER DATE 5-5-69
CONNECTION DIAGRAM	406770-2 ORIGINAL AT RRC

C/R 244907, 290048, 354478, 354480

REL. S.O.	FRAME	RATING	RPM	ARM. VOLTS	ARM. AMPS
	SC2512AT	15.0HP	1750	500	25.6
WINDING TYPE		S.F.	ENCL.	AMB °C/INSUL	DUTY
STAB. SHUNT		1.0	TEFC	40/F	CONT
					FIELD VOLTS
					300
POWER CODE	TYPE	WK <sup>2</sup> (LB-FT <sup>2</sup> )	HOT ARM. CIR. RES.	FLD. AMPS@25 °C	HOT FIELD RES
C	TR	4.832	1.38	1.71	259
ARM. CIR. IND. (mh)	FIELD IND. (H)	COOLING AIR (CFM/IN H 20)	TURNS PER COIL SHUNT/SERIES	TEST DATE	
17.5	40.0	-/-	1350/2	-	
LOAD PERFORMANCE					
LOAD	AMPERES	TORQUE IN LB.-FT.	OUTPUT IN HP	RPM	% EFFICIENCY
NO LOAD	.94	0	0	1950	0
1/4	6.4	9.80	3.57	1915	74.2
2/4	13	21.2	7.61	1883	83.5
3/4	19	32.4	11.5	1856	85.6
4/4	26	43.4	15.1	1834	85.6
O.L.	38	63.9	22.0	1807	83.7
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	
1.15	1949	1834	446	431	
1.08	2058	1922	425	410	
1.00	2177	2026	402	388	
.930	2319	2150	377	364	
.854	2492	2300	350	339	
REMARKS: TYPICAL DATA					
MAXIMUM SAFE SPEED = 4500 RPM					
		DR. BY B. GRANT CK. BY B. GRANT APP. BY T. EVONN DATE 8/2/85		D-C MOTOR PERFORMANCE DATA DG6144B ISSUE DATE 8/2/85	

