

BALDOR® • *RELIANCE*

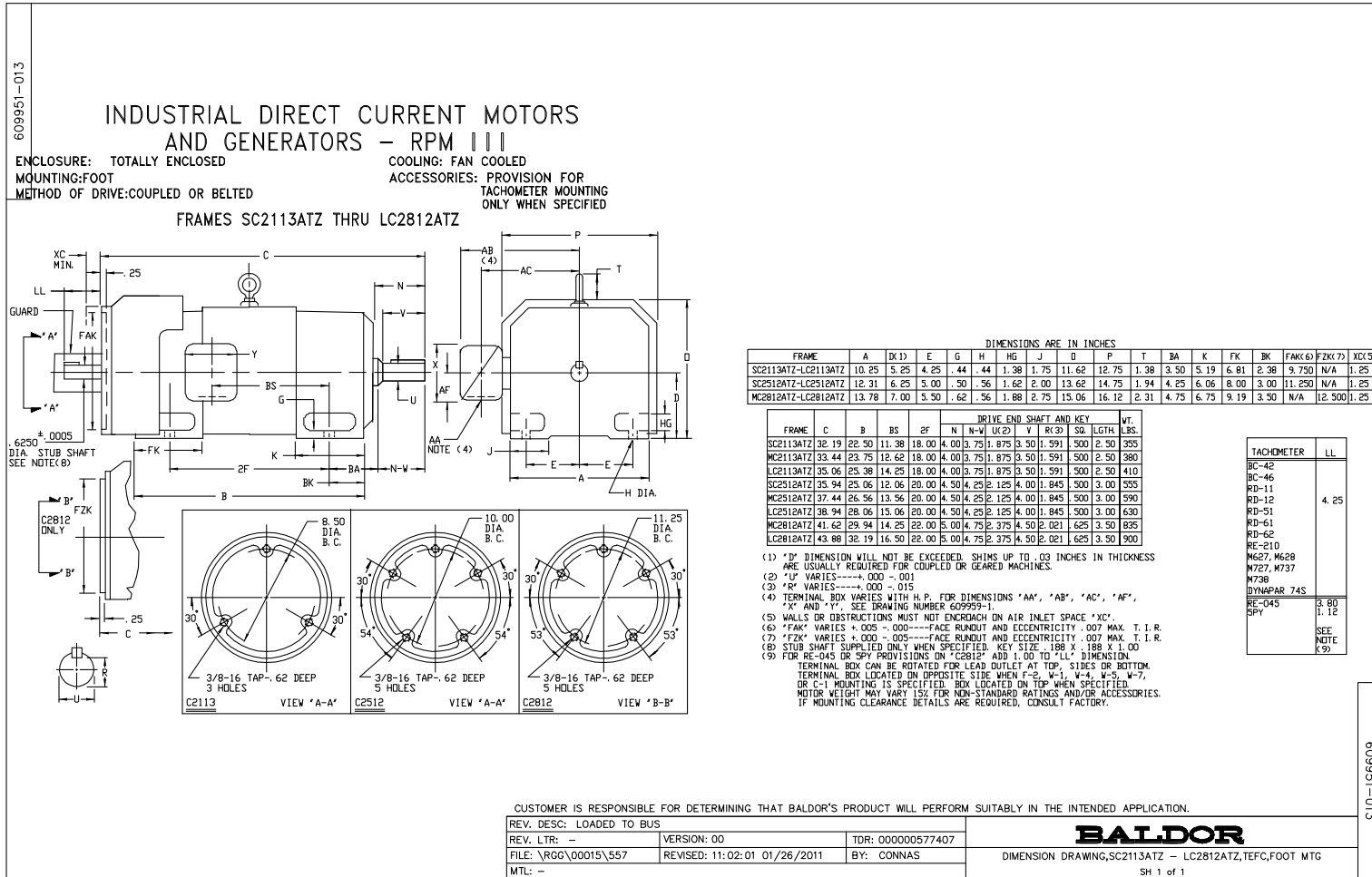
Product Information Packet

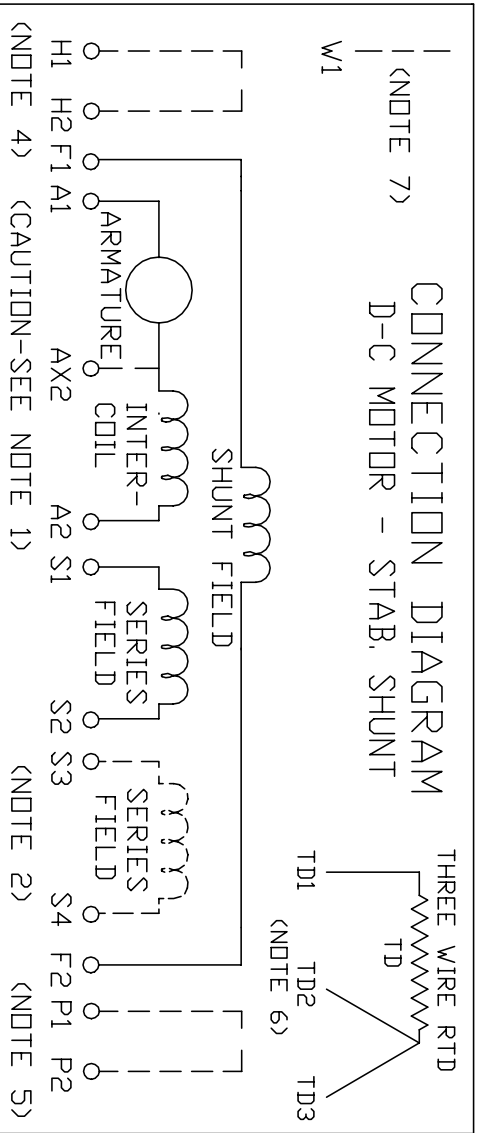
D2510R

10HP, 1750RPM, DC, 2113ATY, TEFC,

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Part Detail			
Type:	DC	Prod. Type:	TR
Power Code:	C	Weight:	379
Frame Group:	MC 2113ATZ	Mounting Pos.:	F1
HP:	10	Enclosure:	TEFC
RPM:	1750/2300	Wound:	STAB SHUNT
Service Factor:	1.0	Arm V:	240
Arm A:	35.50	Field V:	150
Field A:	3.13	Field A Hot:	2.19/1.58
Insulation Class:	F	Ambient:	40
Duty:	CONT	DE Bearing:	50BC03J30X
ODE Bearing:	45BC02J30X	Brushes:	419904-51AB
Brush Qty.:			





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




ROTATION FACING COMMUTATOR END

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.

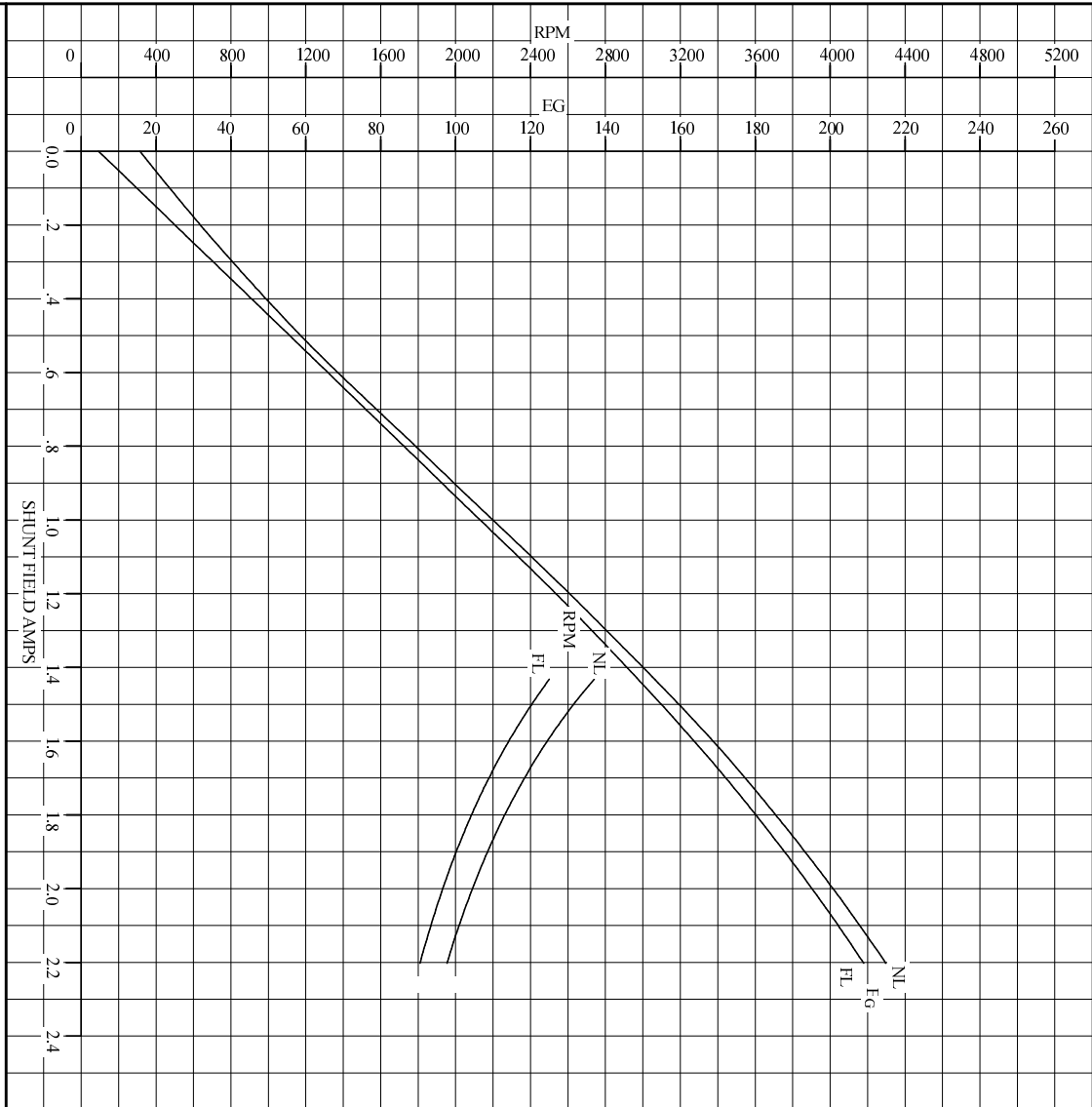
CUSTOMER _____ RELIANCE
ORDER NO. _____ S.D. NO. _____

<p>RELIANCE ELECTRIC</p> <p>CLEVELAND, OHIO 44117 U.S.A.</p>	<p>Rev. by <u>N.L. EVANS</u> Ck. by <u>N. JESCHKE</u> App. by <u>E. HINER</u> DATE <u>5-5-69</u></p>
<p>CONNECTION DIAGRAM</p> <p>406770-1</p> <p>ORIGINAL AT RCC</p>	

C/R 290048, 354478, 354480

REL. S.O.	FRAME	RATING	RPM	ARM. VOLTS	ARM. AMPS
	MC2113AT	10.0HP	1750	240	35.5
WINDING TYPE					
S.F.	ENCL.	AMB °C/INSUL	DUTY	FIELD VOLTS	
STAB. SHUNT	1.0	TEFC	40/F	CONT	150
POWER CODE					
TYPE	WK ² (LB-FT ²)	HOT ARM. CIR. RES.	FLD. AMPS@25 °C	HOT FIELD RES	
D	TR	2.564	.506	3.13	68.1
ARM. CIR. IND. (mh)					
5.18	FIELD IND. (H)	COOLING AIR (CFM/IN H 20)	TURNS PER COIL SHUNT/SERIES	TEST DATE	
	8.91	-/-	650/1		-
LOAD PERFORMANCE					
LOAD	AMPERES	TORQUE IN LB.-FT.	OUTPUT IN HP	RPM	% EFFICIENCY
NO LOAD	1.5	0	0	1941	0
1/4	8.9	6.39	2.32	1904	68.1
2/4	18	14.0	4.98	1868	78.2
3/4	27	21.5	7.52	1837	80.9
4/4	36	28.8	9.93	1810	81.8
O.L.	53	42.7	14.4	1766	80.5
RPM VS. FIELD AMPS					
FIELD AMPS	RPM N.L.	RPM F.L.	Eg N.L. @ BASE SPEED	Eg F.L. @ BASE SPEED	
2.20	1941	1810	214	208	
2.00	2082	1924	201	195	
1.81	2246	2070	187	181	
1.62	2458	2256	170	165	
1.43	2739	2500	153	148	
REMARKS: TYPICAL DATA					
MAXIMUM SAFE SPEED = 4500 RPM					
			DR. BY J. MARTIN CK. BY J. MARTIN APP. BY T. EVONN DATE 6/21/85		
			D-C MOTOR PERFORMANCE DATA D66241C ISSUE DATE 6/21/85		

REL. S. O.	FRAME MC2113AT	RATING 10.0HP	BASE SPEED 1750	WINDING TYPE STAB SHUNT
S.F. ENCL. 1.0 TEFC	AMB°C/INSUL 40/F	DUTY CONT	POWER CODE/FORM FACTOR D	TYPE TR
COOLING AIR (CFM/IN H ² O) -/	\bar{R} (hot) .485	T_e .00909	T_m .0447	WINDER RPM MAX. SAFE 4500
RESISTANCE	CURRENT		INDUCTANCE	
25°C .343	HOT .507	25°C -	HOT 35.5	PER COIL -
SERIES S1-S2 SHUNT F1-F2	.00603 47.8	.00894 68.1	3.14	8.91
			2.20	H 650



REMARKS: TYPICAL DATA
CURVES VALID FOR NAMEPLATE SPEED RANGE ONLY



DR. BY J. MARTIN
CR. BY J. MARTIN
APP. BY T. EVON
DATE 6/21/85

D-C APPLICATION DATA

SG6241C
ISSUE DATE 6/21/85

