

# **BALDOR® • RELIANCE**

## **Product Information Packet**

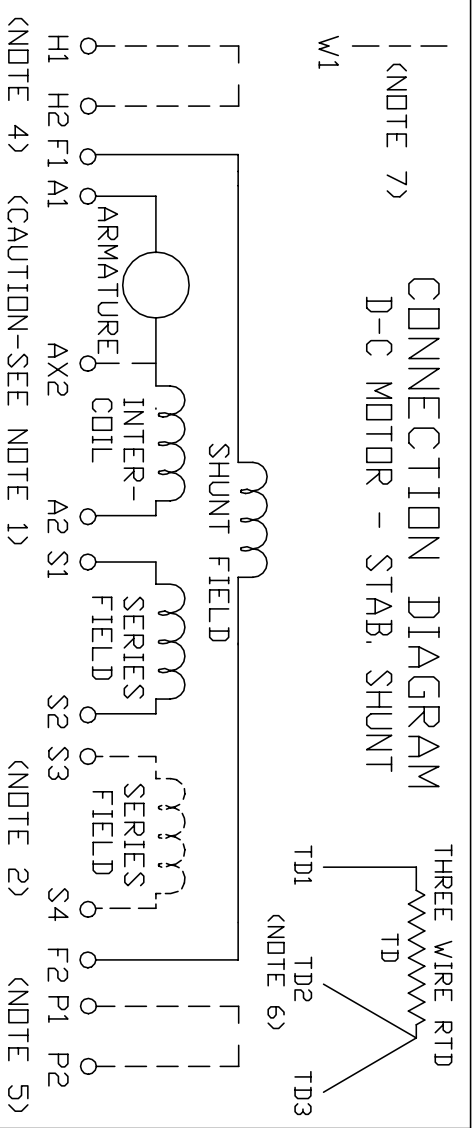
### **D50150RS-BV**

**150HP, 1750RPM, DC, 3612ATZ, DPG-FV,**

Copyright © All product information within this document is subject to Baldor Electric Company copyright © protection, unless otherwise noted.

Part Detail			
Type:	DC	Prod. Type:	TR
Power Code:	C	Weight:	1630
Frame Group:	MC 3612ATZ	Mounting Pos.:	F2
HP:	150	Enclosure:	DPFV
RPM:	1750/2000	Wound:	STAB SHUNT
Service Factor:	1.0	Arm V:	500
Arm A:	240.00	Field V:	300
Field A:	4.81	Field A Hot:	3.47/2.98
Insulation Class:	F	Ambient:	40
Duty:	CONT	DE Bearing:	95BC02J30X
ODE Bearing:	80BC02J30X	Brushes:	419904-52AF
Brush Qty.:			





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



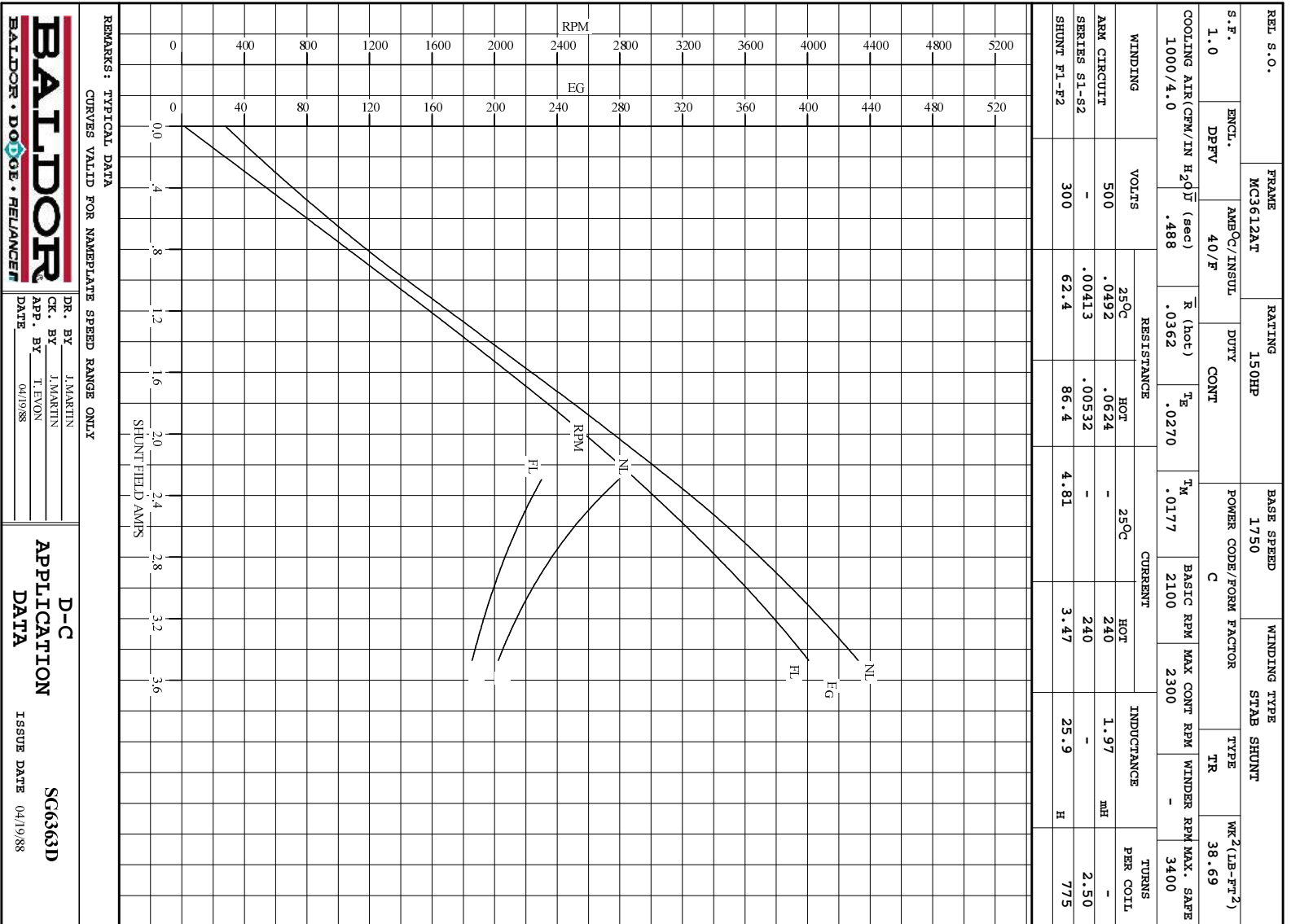
ROTATION FACING COMMUTATOR END

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 style="text-align: center;"><b>RELIANCE ELECTRIC</b></p> <p style="text-align: center;">CLEVELAND, OHIO 44117 U.S.A.</p>	<p style="text-align: center;">DR. 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 style="text-align: center;"><b>CONNECTION DIAGRAM</b></p> <p style="text-align: center; font-size: 24pt;"><b>406770-1</b></p> <p style="text-align: center;">ORIGINAL AT RCC</p>	

C/R 290048, 354478, 354480



REL S.O.	FRAME	RATING	RPM	ARM. VOLTS	ARM. AMPS
	MC3612AT	150HP	1750	500	240
WINDING TYPE		S.F.	ENCL.	AMB °C/INSUL	DUTY
STAB. SHUNT		1.0	DPFV	40/F	CONT
					300
POWER CODE	TYPE	WK 2 (LB-PT 2)	HOT ARM. CIR. RES.	FLD. AMPS@25 °C	HOT FIELD RES
	C	TR	38.69	.0623	4.80
					86.4

ARM. CIR. IND. (mh)	FIELD IND. (H)	COOLING AIR (CFM/IN H 20)	TURNS PER COIL SHUNT/SERIES	TEST DATE
1.96	25.9	1000/4.0	775/2.5	-

LOAD PERFORMANCE

LOAD	AMPERES	TORQUE IN LB.-FT.	OUTPUT IN HP	RPM	% EFFICIENCY
NO LOAD	5.0	0	0	2010	0
1/4	60	98.8	36.6	1947	83.2
2/4	120	209	75.5	1899	89.6
3/4	180	319	114	1868	91.2
4/4	240	427	151	1853	91.5
O.L.	360	633	222	1844	90.7


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
3.47	2009	1852	432	400
3.17	2150	1937	407	376
2.88	2311	2034	378	350
2.59	2518	2152	347	321
2.29	2792	2300	312	290

MAXIMUM SAFE SPEED = 3400 RPM

REMARKS: TYPICAL DATA

	DR. BY J. MARTIN	<b>D-C MOTOR PERFORMANCE DATA</b> DG6363D ISSUE DATE 04/19/88
	CK. BY J. MARTIN APP. BY T. EVON DATE 04/19/88	

