

BALDOR® • ***RELIANCE***

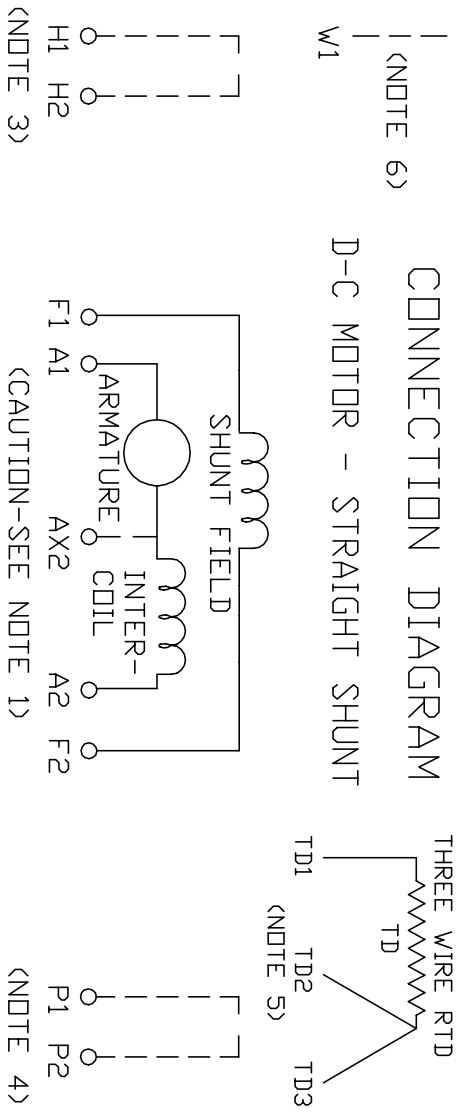
Product Information Packet

D50250RR-BV

250 1750 500A 300F DPGFV STR SNT

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Part Detail			
Type:	DC	Prod. Type:	TR
Power Code:	C	Weight:	1891
Frame Group:	ULC 3612ATZ	Mounting Pos.:	F2
HP:	250	Enclosure:	DPFV
RPM:	1750/2000	Wound:	STR. SHUNT
Service Factor:	1.0	Arm V:	500
Arm A:	405.00	Field V:	300
Field A:	8.87	Field A Hot:	5.91/5.38
Insulation Class:	F	Ambient:	40
Duty:	CONT	DE Bearing:	
ODE Bearing:	80BC02J30X	Brushes:	419904-52AB
Brush Qty.:			



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 LEAD MARKED W1.
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.

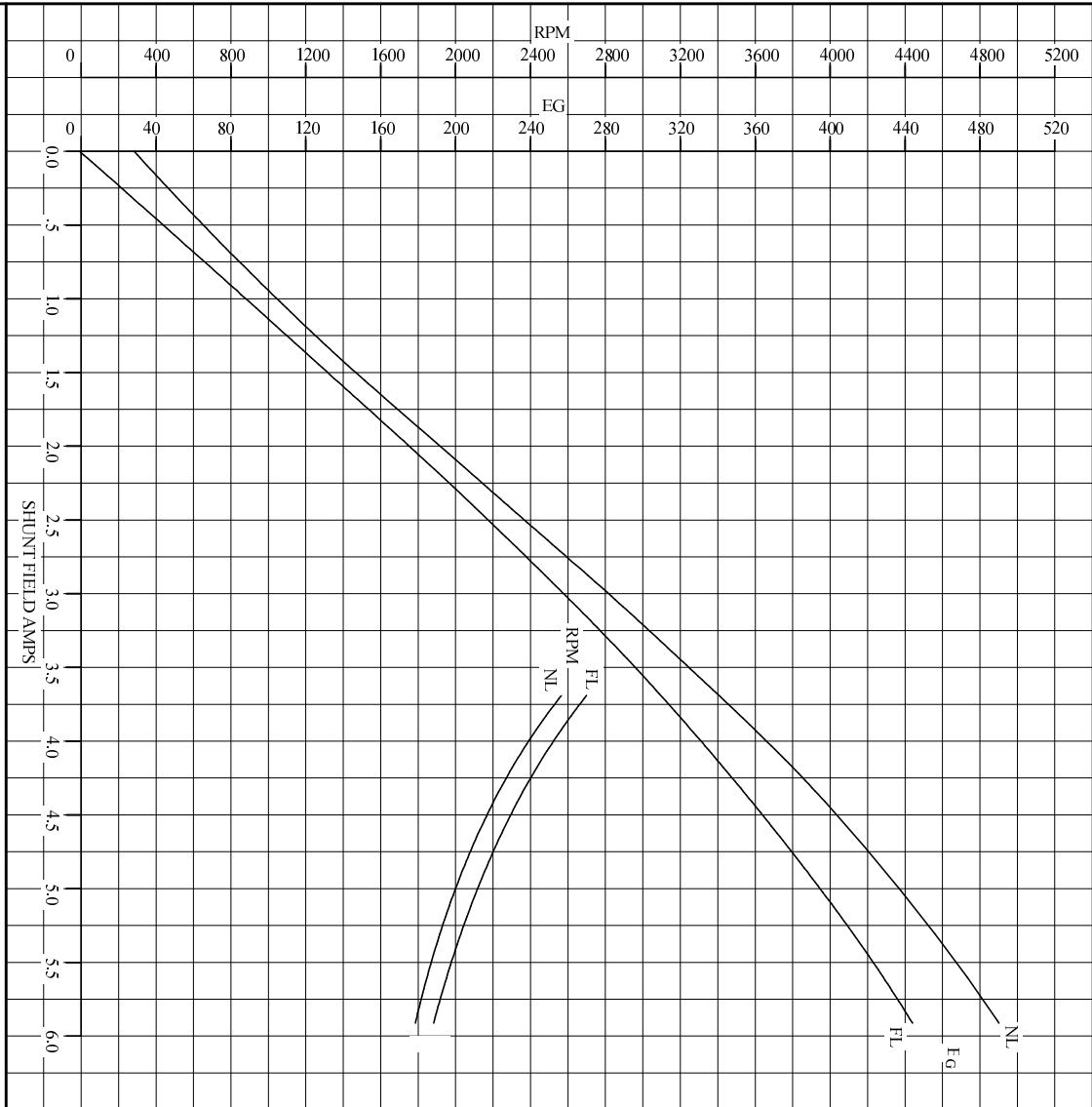
CUSTOMER _____ RELIANCE _____
 ORDER NO. _____ S.O. NO. _____

<p style="font-size: small;">CLEVELAND, OHIO 44117 U.S.A.</p>	<p style="font-size: x-small;">REV. BY N.L. EVANS CK. BY N. JESCHKE APP. BY E.J. HINER DATE 5-5-69</p>
<p>CONNECTION DIAGRAM</p> <p style="font-size: large; font-weight: bold;">406770-6</p> <p style="font-size: x-small;">ORIGINAL AT RCC</p>	

C/R 244907, 290048, 354478, 354480

REL. S.O.	FRAME	RATING	RPM	ARM. VOLTS	ARM. AMPS
	LC3612ATZ	250HP	1750	500	405
WINDING TYPE		S.F.	ENCL.	AMB °C/INSUL	DUTY
STRAIGHT SHUNT		1.0	DEPRV	40/F	CONT
					FIELD VOLTS
					300
POWER CODE	TYPE	WK ² (LB-FT ²)	HOT ARM. CIR. RES.	FLD. AMPS@25 °C	HOT FIELD RES
C	TR	46.61	.0478	8.87	50.7
ARM. CIR. IND. (mh)	FIELD IND. (H)	COOLING AIR (CFM/IN H 20)	TURNS PER COIL SHUNT/SERIES	TEST DATE	
1.43	17.0	1000/4.00	550/.00000	-	
LOAD PERFORMANCE					
LOAD	AMPERES	TORQUE IN LB.-FT.	OUTPUT IN HP	RPM	% EFFICIENCY
NO LOAD	4.5	0	0	1781	0
1/4	101	187	63.2	1781	86.8
2/4	203	375	128	1797	91.2
3/4	304	549	192	1832	91.9
4/4	405	705	253	1884	91.5
O.L.	608	955	370	2032	89.7
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	
	5.91	1780	490	444	
	5.35	1903	2014	460	414
	4.80	2061	2183	424	382
	4.24	2273	2403	384	347
	3.68	2565	2700	340	309
REMARKS: TYPICAL DATA MAXIMUM SAFE SPEED = 3400 RPM SPEED REGULATOR REQUIRED FOR STABILITY					
RELIANCE ELECTRIC		DR. BY R. BRÄUCHER CK. BY K. BRÄUCHER APP. BY T. STEVON DATE 02/16/87		D-C MOTOR PERFORMANCE DATA D66130C ISSUE DATE 05-08-2000	

REL. S. O.	FRAME IC3612ATZ	RATING 250HP	BASE SPEED 1750	WINDING TYPE STRAIGHT SHUNT
S. F. ENCL. 1.0 DPFV	AMB°C/INSUL 40/F	DUTY CONT	POWER CODE/FORM FACTOR C	TYPE TR
COOLING AIR (CFM/IN H ² O) 1000/4.00	R (hot) .353	T _e .0259	T _m .0165	WINDER RPM 3400
RESISTANCE	25°C .0330	HOT .0478	25°C -	INDUCTANCE 1.43 mH
ARM CIRCUIT	500	50.7	8.87	PER COIL -
SERIES S1-S2	-	-	-	
SHUNT F1-F2	300	33.8	5.91	17.0 H



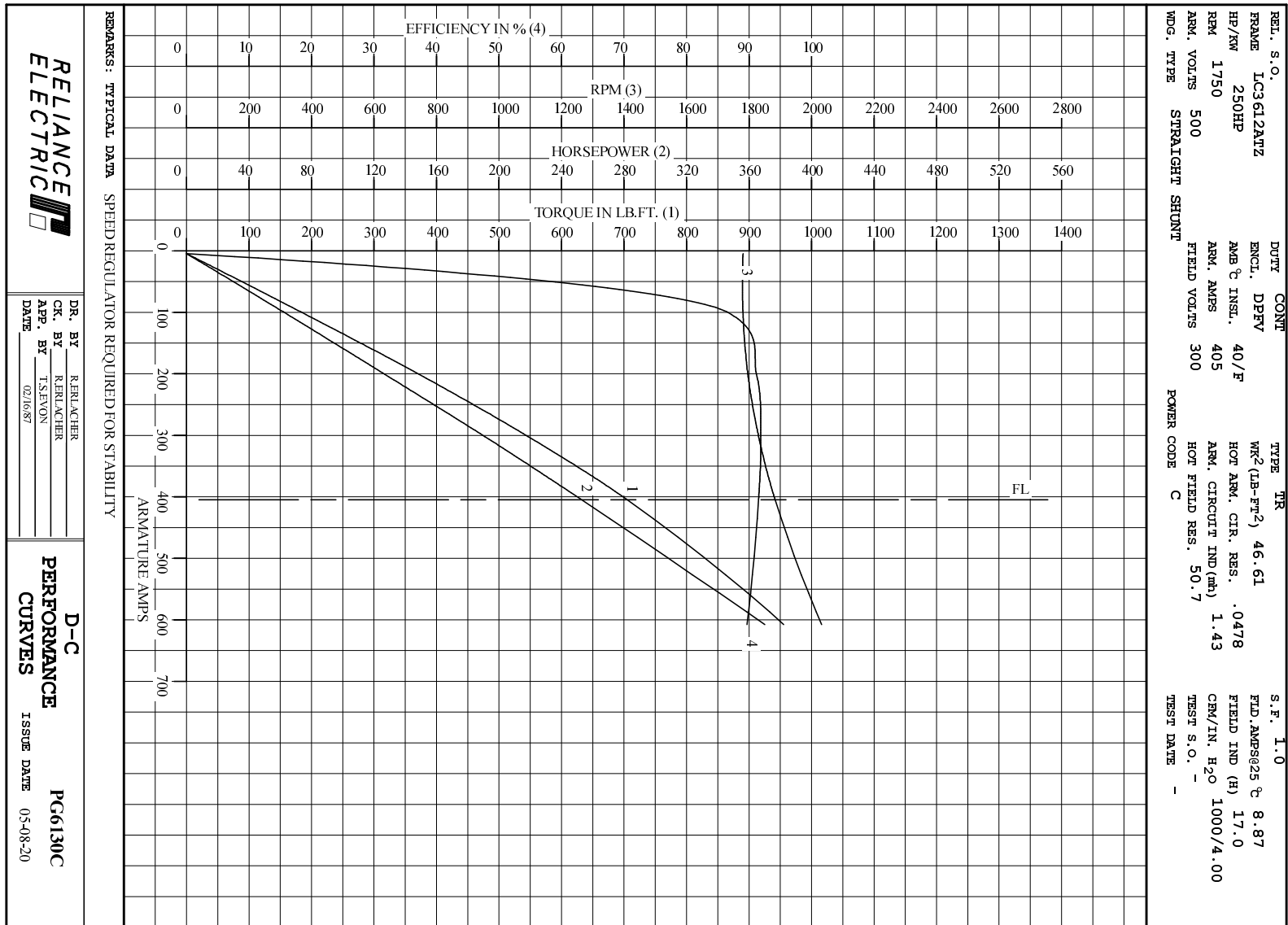
REMARKS: TYPICAL DATA SPEED REGULATOR REQUIRED FOR STABILITY
CURVES VALID FOR NAMEPLATE SPEED RANGE ONLY



DR. BY R. REINLACHER
CR. BY R. REINLACHER
APP. BY T. SHOWN
DATE 02/16/87

D-C APPLICATION DATA

SG6130C
ISSUE DATE 05-08-2000



DR. BY R.ERLACHER
 CK. BY R.ERLACHER
 APP. BY T.SEVON
 DATE 02/16/87

D-C PERFORMANCE CURVES

PG6130C
 ISSUE DATE 05-08-20