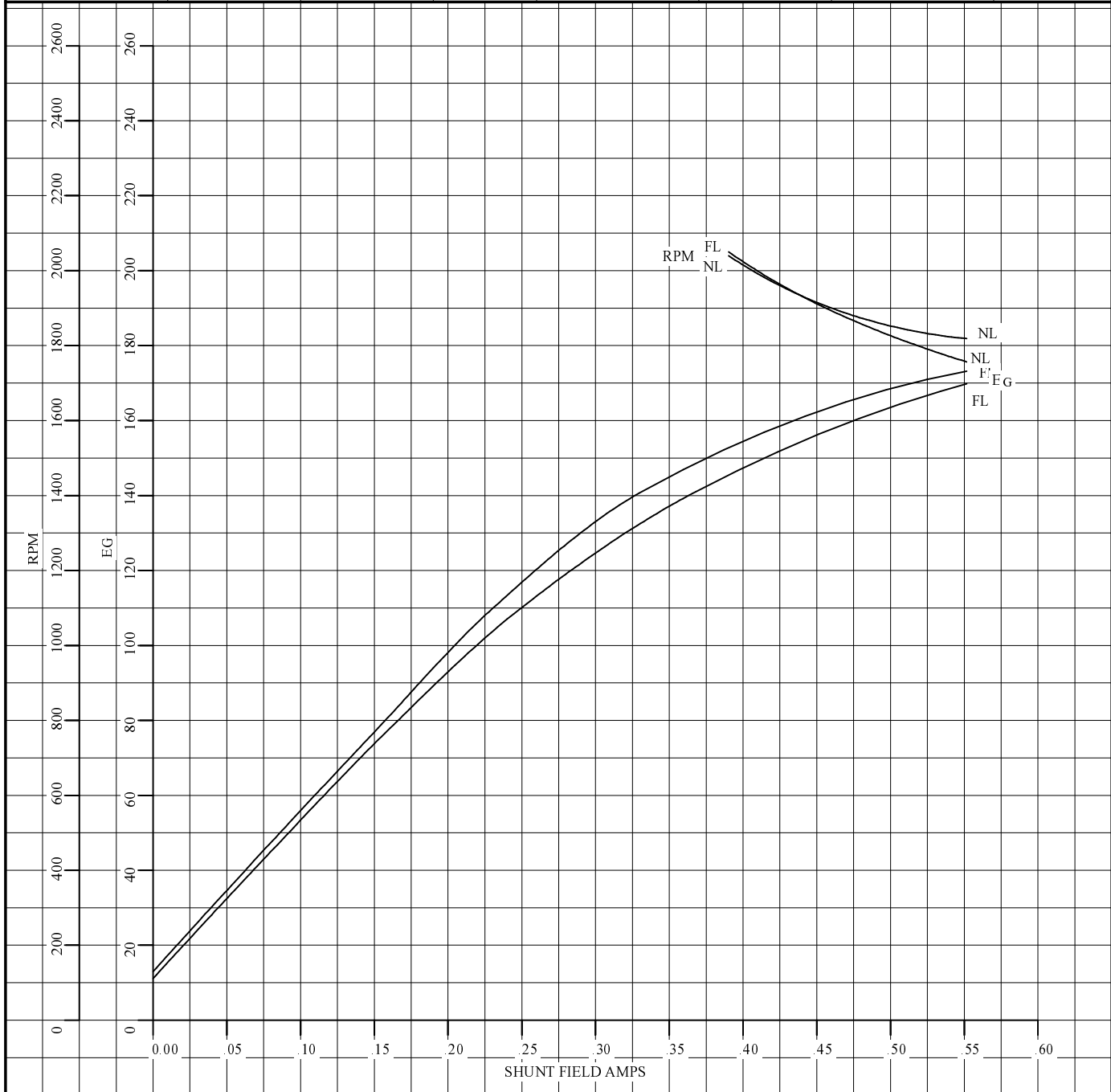


REL S.O.		FRAME DC189AT		RATING 1.50HP		BASE SPEED 1750		WINDING TYPE STRAIGHT SHUNT					
S.F. 1.0	ENCL. TENV	AMB ⁰ C/INSUL 40/F		DUTY CONT		POWER CODE/FORM FACTOR 2/2 230-60-0			TYPE TR	WK ² (LB-FT ²) .6247			
COOLING AIR(CFM/IN H ₂ O) -/-		J (sec) .788		R (hot) .0560		T _E .0109		T _M .0441	BASIC RPM 1950	MAX CONT RPM 2050	WINDER RPM -	MAX. SAFE 4500	
WINDING		VOLTS		RESISTANCE		CURRENT				INDUCTANCE	TURNS PER COIL		
				25 ⁰ C		HOT		25 ⁰ C				HOT	
ARM CIRCUIT		180		.853		1.12		-		7.20		14.5 mH	-
SERIES S1-S2		-		-		-		-		-		-	-
SHUNT F1-F2		200		277		363		.722		.552		65.8 H	2500



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



DR. BY B. GRANT
CK. BY B. GRANT
APP. BY T. EVON
DATE 7-8-88

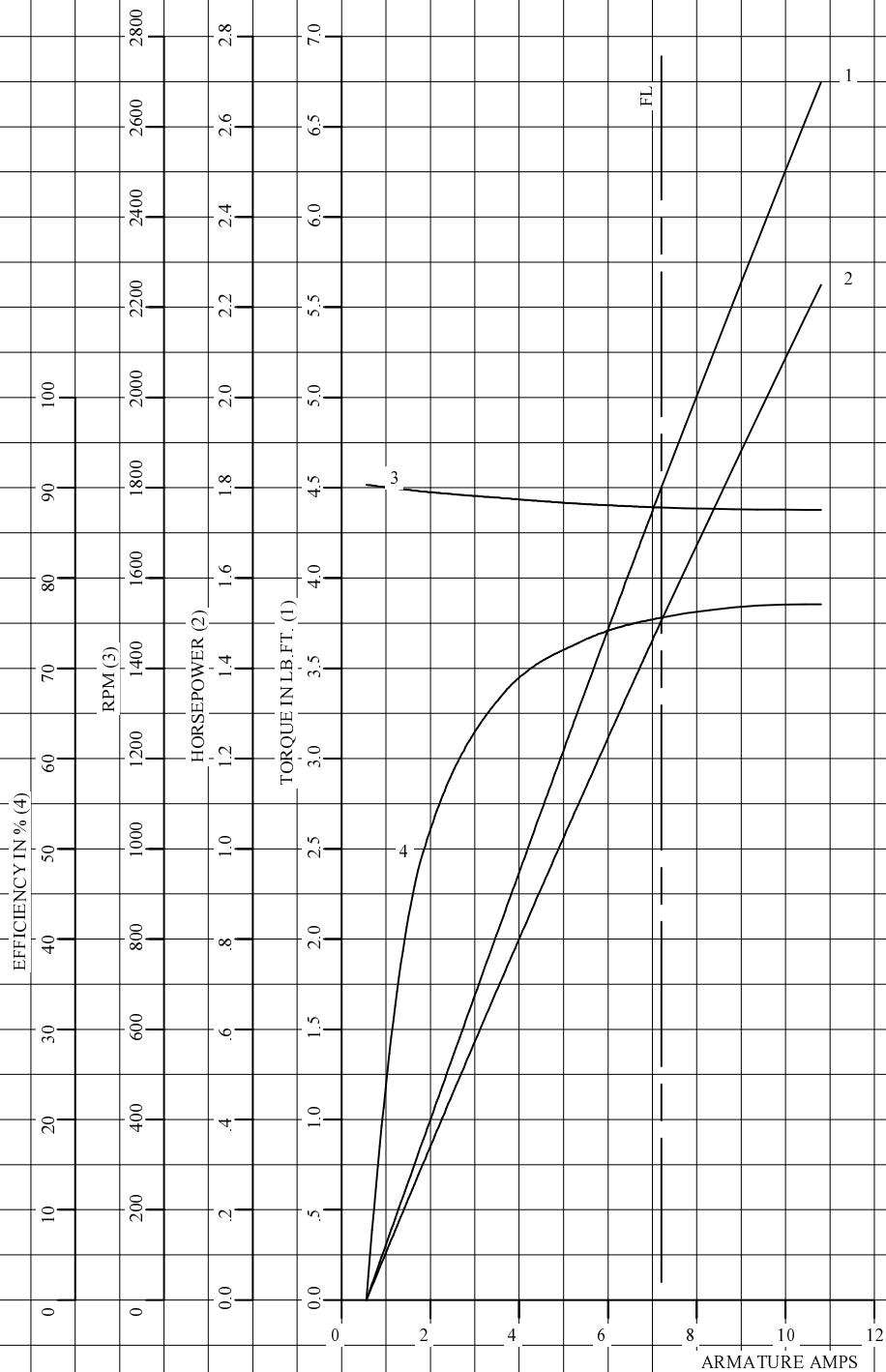
D-C
APPLICATION
DATA

SG4604A

ISSUE DATE 7-8-88

REL S.O.	FRAME	RATING		RPM	ARM. VOLTS	ARM. AMPS
	DC189AT	1.50HP		1750	180	7.20
WINDING TYPE		S.F.	ENCL.	AMB °C/INSUL	DUTY	FIELD VOLTS
STRAIGHT SHUNT		1.0	TENV	40/F	CONT	200
POWER CODE	TYPE	WK ² (LB-FT ²)	HOT ARM.CIR.RES.		FLD. AMPS@25 °C	HOT FIELD RES
2/2 230-60-0	TR	.6247	1.11		.721	362
ARM. CIR. IND. (mh)	FIELD IND. (H)	COOLING AIR(CFM/IN H ² 0)			TURNS PER COIL SHUNT/SERIES	TEST DATE
14.5	65.8	-/-			2500/.00000	-
LOAD PERFORMANCE						
LOAD	AMPERES	TORQUE IN LB.-FT.		OUTPUT IN HP	RPM	% EFFICIENCY
NO LOAD	.56	0		0	1807	0
1/4	1.8	.861		.294	1792	49.0
2/4	3.6	2.10		.710	1777	66.9
3/4	5.4	3.31		1.11	1764	73.0
4/4	7.2	4.50		1.50	1756	75.6
O.L.	11	6.75		2.25	1751	77.1
RPM VS. FIELD AMPS						
FIELD AMPS	RPM N.L.		RPM F.L.		Eg N.L. @ BASE SPEED	Eg F.L. @ BASE SPEED
.551	1806		1756		173	169
.511	1842		1809		169	164
.470	1885		1873		165	159
.430	1949		1951		160	152
.390	2039		2050		153	145
REMARKS: TYPICAL DATA MAXIMUM SAFE SPEED = 4500 RPM SPEED REGULATOR REQUIRED FOR STABILITY						
		DR. BY <u>B. GRANT</u> CK. BY <u>B. GRANT</u> APP. BY <u>T. EVON</u> DATE <u>7-8-88</u>		D-C MOTOR PERFORMANCE DATA DG4604A ISSUE DATE 7-8-88		

REL. S.O.	DUTY CONT	TYPE TR	S.F. 1.0
FRAME DC189AT	ENCL. TENV	WK ² (LB-FT ²) .6247	FLD.AMPS@25 °C .721
HP/KW 1.50HP	AMB °C INSL. 40/F	HOT ARM. CIR. RES. 1.11	FIELD IND (H) 65.8
RPM 1750	ARM. AMPS 7.20	ARM. CIRCUIT IND(mh) 14.5	CFM/IN. H ₂ O -/-
ARM. VOLTS 180	FIELD VOLTS 200	HOT FIELD RES. 362	TEST S.O. -
WDG. TYPE STRAIGHT SHUNT	POWER CODE 2/2 230-60-0	TEST DATE -	



REMARKS: TYPICAL DATA SPEED REGULATOR REQUIRED FOR STABILITY



DR. BY	B. GRANT
CK. BY	B. GRANT
APP. BY	T. EVON
DATE	7-8-88

**D-C
PERFORMANCE
CURVES**

PG4604A

ISSUE DATE 7-8-88