

REL. S.O.	FRAME	RATING	RPM	ARM. VOLTS	ARM. AMPS
	DC1810ATZ	5.00HP	1750	180	24.0
WINDING TYPE	S.F.	ENCL.	AMB°C/INSUL	DUTY	FIELD VOLTS
STRAIGHT SHUNT	1.0	DPG	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	.6800	.591	1.67	153


ARM. CIR. IND. (mh)	FIELD IND. (H)	COOLING AIR (CFM/IN H ₂ O)	TURNS PER COIL SHUNT/SERIES	TEST DATE
8.76	14.1	-/-	1600/0	-

LOAD PERFORMANCE

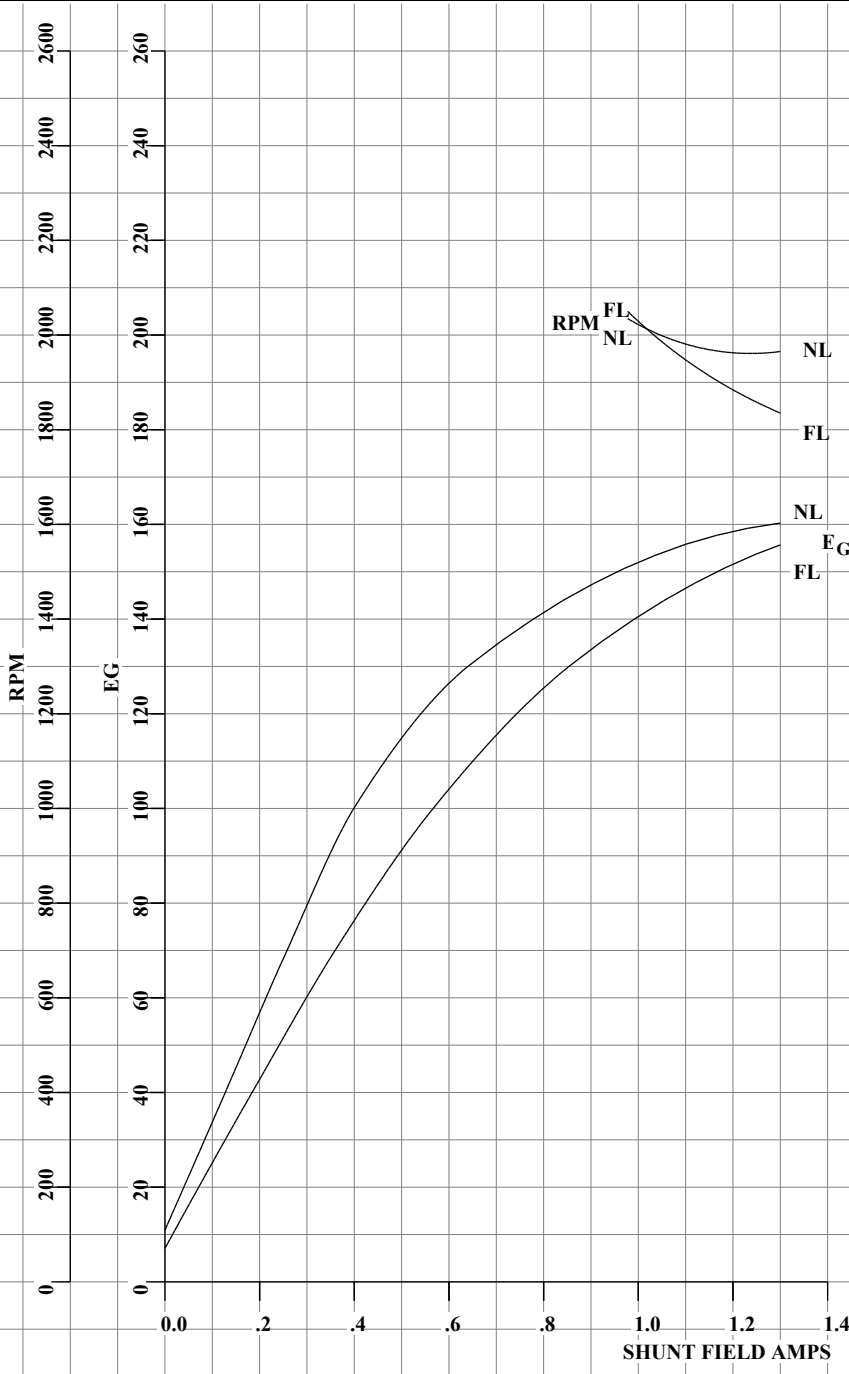
LOAD	AMPERES	TORQUE IN LB.-FT.	OUTPUT IN HP	RPM	PERCENT EFFICIENCY
NO LOAD	.77	0	0	1950	0
1/4	6.0	3.34	1.22	1921	65.6
2/4	12	7.13	2.56	1887	75.3
3/4	18	10.8	3.83	1860	77.5
4/4	24	14.4	5.03	1841	77.7
O.L.	36	20.6	7.22	1836	76.5

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
1.30	1950	1840	160	155
1.21	1960	1870	156	152
1.13	1970	1920	153	148
1.05	1990	1970	149	144
.977	2030	2050	146	139


REMARKS: TYPICAL DATA MAXIMUM SAFE SPEED = 4500 RPM

	DRAWN BY: <u>R.ERLACHER</u>	DC MOTOR PERFORMANCE DATA	DG4611A
	CHECKED BY: <u>R.ERLACHER</u>		
	APPROVED BY: <u>T.S.EVON</u>		DATE ISSUED 03-10-92
	DATE: <u>08-05-88</u>		

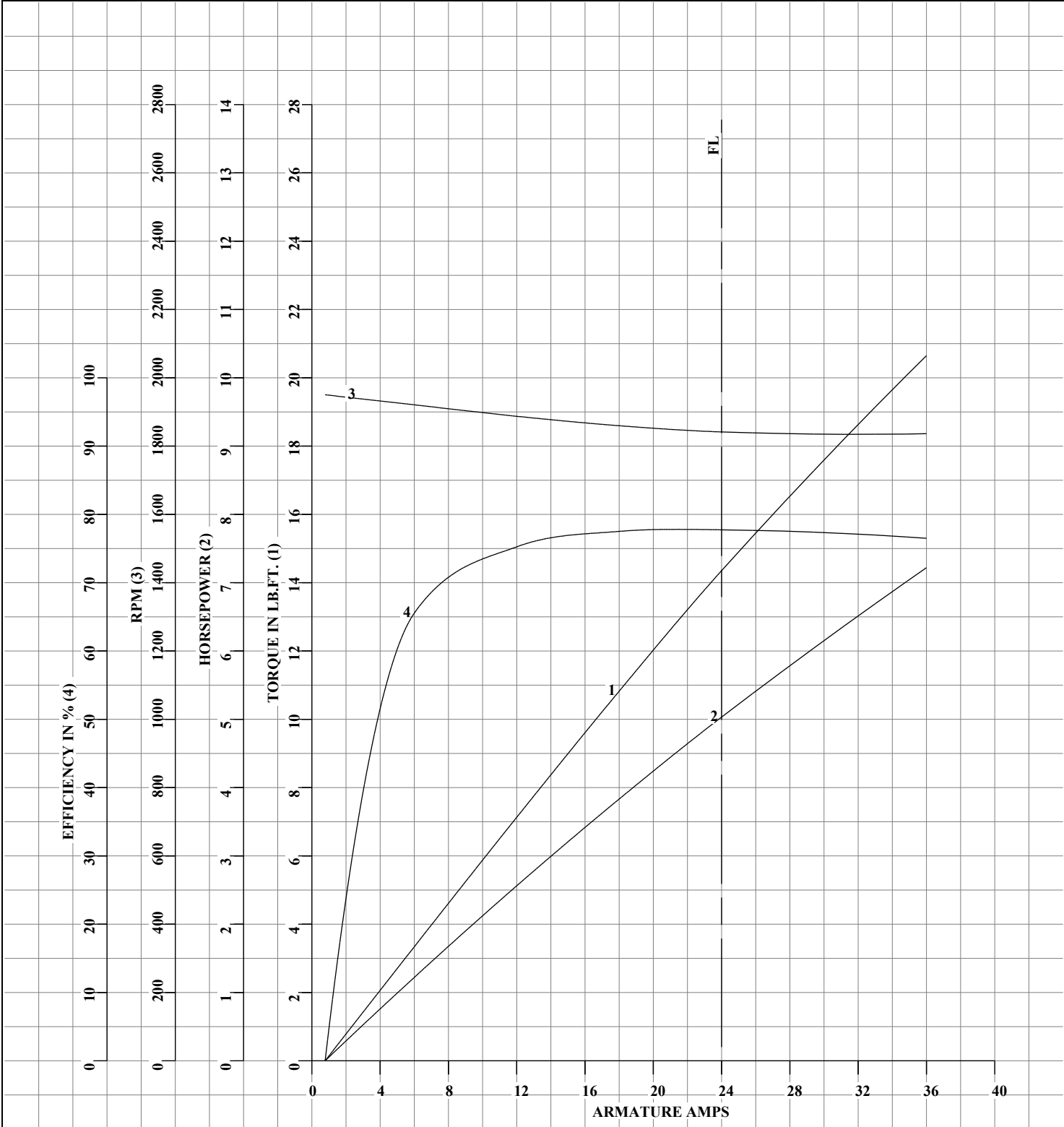
REL S.O.		FRAME DC1810ATZ		RATING 5.00HP		BASE SPEED 1750		WINDING TYPE STRAIGHT SHUNT		
S.F. 1.0	ENCL. DPG	AMB°C/INSUL 40/F		DUTY CONT		POWER CODE/Form FACTOR 2/2 230-60-0		TYPE TR		WK ² (LB-FT ²) .6800
COOLING AIR (CFM/IN H ₂ O) -/-		J(sec) .257	R(hot) .102	T E .0125	T M .0264	BASIC RPM 1950		MAX CONT 2050	WINDER RPM -	MAX. SAFE SPEED 4500
WINDING		VOLTS		RESISTANCE		CURRENT		INDUCTANCE		TURNS PER C
				25°C	HOT	25°C	HOT			
ARM CIRCUIT	180	.461	.592	-	24.0	8.77				-
SERIES S1-S2	-	-	-	-	-	-				-
SHUNT F1-F2	200	119	154	1.68	1.30	14.1				1600



REMARKS: TYPICAL DATACURVES VALID FOR NAMEPLATE SPEED RANGE ONLY

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REL. S.O.		DUTY	CONT	TYPE	TR	S.F.	1.0
FRAME	DC1810ATZ	ENCL.	DPG	WK ² (LB-FT ²)	.6800	FLD. AMPS @25°C	1.67
HP/KW	5.00HP	AMB.°C INSUL	40/F	HOT ARM. CIR. RES.	.591	FIELD IND (H)	14.1
RPM	1750	ARM. AMPS	24.0	ARM. CIRCUIT IND(mh)	8.76	CFM/IN. H ₂ O	-/-
ARM. VOLT	180	FIELD VOLTS	200	HOT FIELD RES.	153	TEST S.O.	-
WDG. TYPE	STRAIGHT SHUNT			POWER CODE	2/2 230-60-0	TEST DATE	-



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