 BOSCH		TELECOPY		DATE 20/6/02
TO:	ALEX WEIR	FROM:	RBSA Hotline	
Company		Company	ROBERT BOSCH	
Phone		Phone	(011) 651-9800	
Fax	09447092368602	Fax	(011) 651-9801	
E mail rbsahotline.za@bosch.com				
No of pages TWO				
Re: ALTERNATORS				

GOOD DAY

THE ALTERNATOR RECOMMENDED WOULD BE THE UNIVERSAL TYPE.

PART No 9 120 690 170 THIS ONE IS A 55 AMP.

THERE IS ALSO A 70 AMP ONE BUT THE CUT IN SPEED IS DIFFERENT.

PLEASE COULD YOU CONTACT A FANIE VAN DER WALT ON 027 11 531 7600

HE WILL HELP YOU ON PRICES etc.

IN REGARDS TO REGULATORS BOTH AARE THE SAME SPEC AS WITH MOST ONES IN THE K TPYE RANGE.

REGARDS

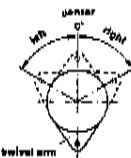
GORDON GILES

TECHNICAL ADVISOR AUTOMOTIVE

BOSCH Choice of alternator, characteristic curves

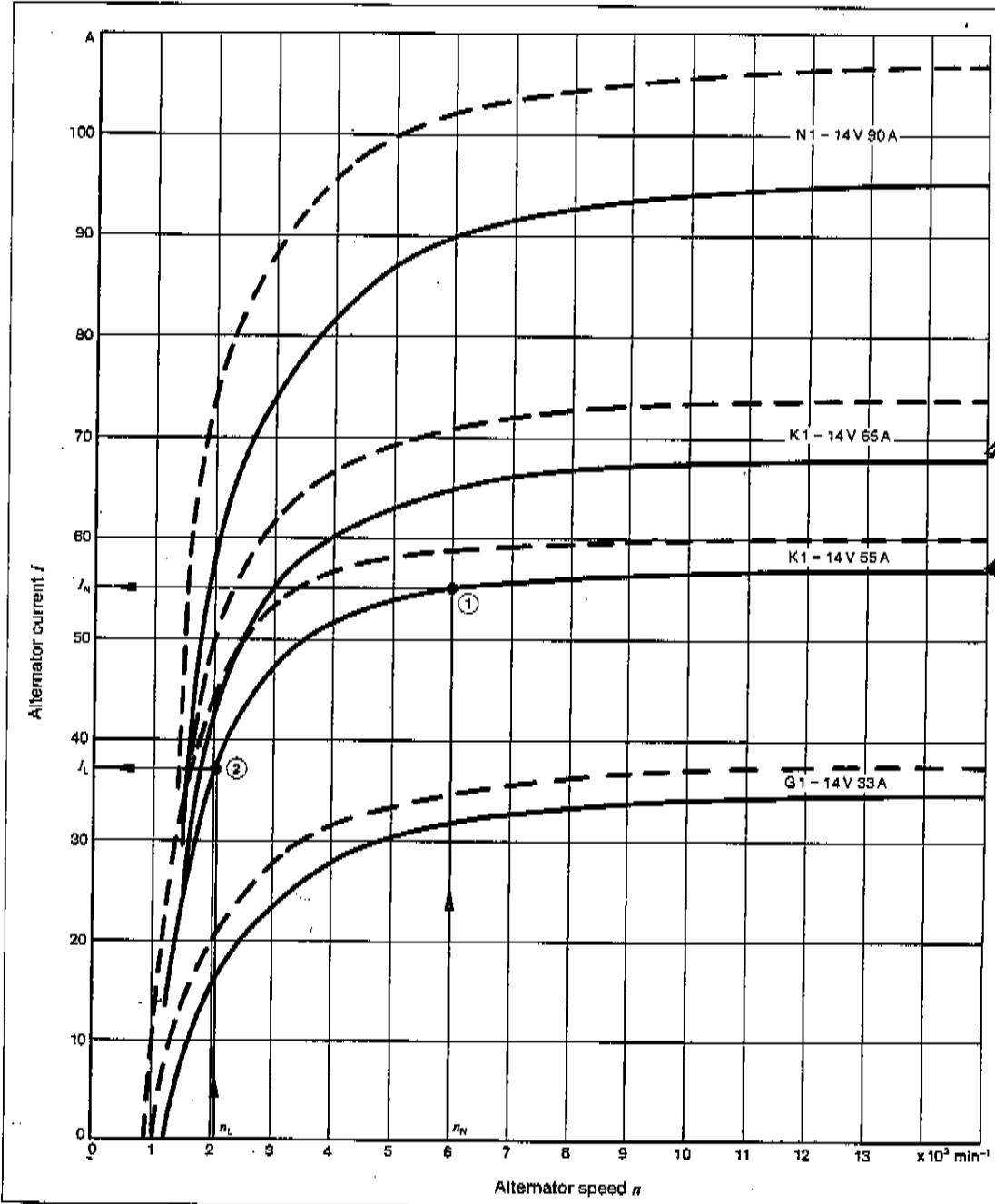
Choice of alternator, characteristic curves

14 V alternators (table 1)

Output range from ... to	Alternator Rated current	Rated speed	Max. speed (at max. engine speed)	Speed at 2/3 I_N	Mass moment of inertia	Dynamic bearing load of drive-end roller bearings	Support arm position	Fig.	Wght.	Type (curve)	Part No. 1)
P_V W	I_N A	n_N min ⁻¹	$n_{G, max}$ min ⁻¹	n min ⁻¹	J kg·cm ²	C_{dyn} N			m kg		
... 300	33	7000	12000	2700	6.5	7500	0° center	10	3.0	G1-14 V	0 120 339 512
							60° left	10	3.0	33 A (with Z-diode)	0 120 339 531
							60° right	10	3.0		0 120 339 536
300 ... 550	55	6000	11000	2000	14.0	10600	60° left/right	12	4.2	K1-14 V	0 120 489 710
550 ... 675	65	6000	11000	2100	14.0	10600	60° left/right	12	4.5	55 A	0 120 489 725
							60° left	13	4.7	K1-14 V	0 120 489 756
675 ... 950	90	6000	10000	2200	24.0	17600	60° left/right	10	6.2	N1-14 V	0 120 469 525
			11000	2200	24.0	10600	60° left	11	5.6	90 A	0 120 469 532

1) Without fan and pulley; these must be ordered separately (pages 14 and 15).

Current curves for 14 V alternators



Alternator current as a function of speed.
 Alternator
 --- cold
 — at final operating temperature
 Ambient temperature approx. 25 °C.
 Alternator voltage $U_N = 14$ V (constant)

70 A
 ← 9 120 690 146
 ← 9 120 690 170
 55 A