Output	770 W
Max. amperage	55 A
Max. speed	250 r/s (15 000 r/m)
Direction of rotation	optional
Min. length, brushes	5 mm (0.2″)
Tightening torque:	
Attaching screws	2.8—3.0 Nm (2.0—2.2 lb ft)
Nut for pulley	40 Nm (29 lb ft)

Test values

Field winding resistance	3.7 ohms
Voltage drop across isolating diode	0.8—0.9 V
Output test	48 A (min. at 50 r/s = 3000 r/m and approx. 14 V)

BOSCH K 1 - 14 V 35 A 20

Output	490 W
Max. amperage	35 A
Max. speed	200 r/s (12 000 r/m)
Direction of rotation	Clockwise
Ratio, engine — alternator	1:2
Min. diameter of slip rings	31.5 mm (1.24″)
Max. permissible radial throw on, slip rings	0.03 mm (0.0012″)
rotor body	0.05 mm (0.0020″)
Min. length of brushes	8 mm (0.31″)
Brush pressure	3—4 N (6.6—8.8 lb.)
Tightening torque for pulley	35—40 Nm (25—29 lb ft)

Test values

Resistance in, stator	0.26 + 0.03 ohm
rotor	4.0 + 0.4 ohm
Output test	35 A (min. at 100 r/s = 6000 r/m and 14 V)

VOLTAGE REGULATOR

S. E. V. MOTOROLA 14 V - 33525

Control voltage, cold regulator	13.1—14.4 V
after driving 45 minutes	13.85—14.25 V

S. E. V. MOTOROLA 14 V - 33544

Control voltage, cold regulator	13.1—14.4 V
after driving 45 minutes	13.85—14.25 V

BOSCH AD - 14 V

Control voltage at 67 alternator r/s, (4000 r/m) cold regulator, read off within 30 seconds (lower two contacts)	14.0—15.0 V
Load current, lower two contacts	28—30 A
Control range (between two upper and lower contacts)	0—0.3 V
Load current, upper two contacts	3—8 A

STARTER MOTOR

Type	Bosch GF 12 V 1 PS
Voltage	12 V
Grounded	Negative terminal
Direction of rotation	Clockwise
Output	Approx. 736 W (1 h p)
Brushes, number	4

TEST VALUES

Mechanical

Armature end float	0.05—0.30 mm (0.002—0.12″)
Brush spring tension	11.5—13 N (2.53—2.86 lb.)
Distance from pinion to ring gear	1.2—4.4 mm (0.047—0.173″)
Frictional torque of rotor brake	0.25—0.40 Nm (2.17—3.81 lb in)
Pinion idling torque	0.13—0.18 Nm (1.13—1.56 lb in)
Backlash	0.35—0.60 mm (0.014—0.024″)
Min. diameter of commutator	33 mm (1.29″)
Min length of brushes	14 mm (0.55″)