



Alternators - AAG

Applications

Low output power makes it possible for the alternators to be built into systems with low electrical requirements. Small dimensions allow installation on all types of combustion engines used on small tractors, small agricultural machinery, stationary engines and other

Design

The alternator is a three-phase, 12-pole synchronous self-excited generator with built-in rectifier and regulator and cooled by an external fan. Various design solutions are available depending upon the application: insulated,

Cooling

The integral fan provides effective through cooling of the alternator. Two different fans are available, for CW and CCW direction of rotation.

Rotor

The rotor winding fixed between the claw poles provides excitation of the alternator through slip rings. For particularly dusty environments slip rings and brushes are additionally protected.

Rectifier

Press fit Zener diodes are mounted into protected heat sinks. Zener diodes protect the loads on the vehicle against over voltages from the alternator.

Regulator

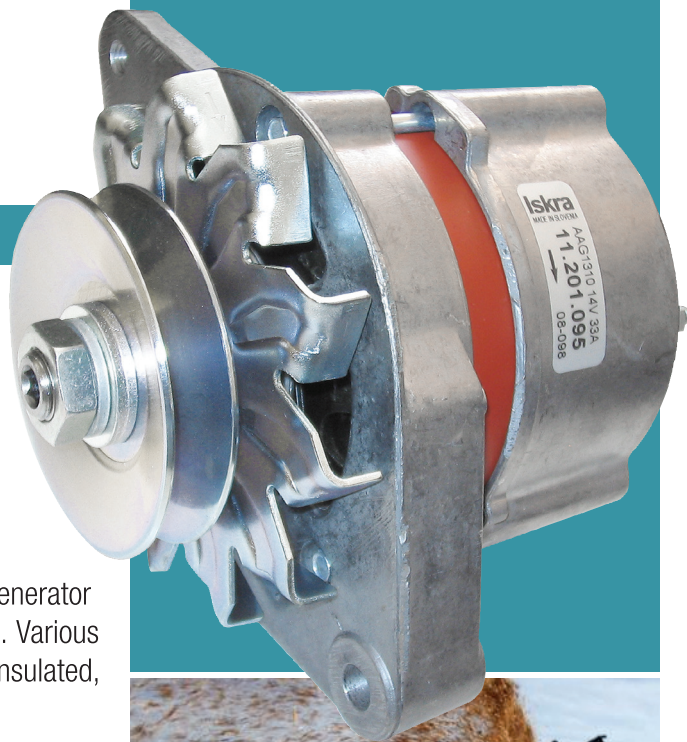
The mono function regulator incorporating the brush holder is built into the alternator. The regulator is produced using thin-film hybrid technology. The highest quality brushes ensure long life of the alternator.

Brackets - Bearings - Pulleys

Brackets, bearings and pulleys are made according to the customers' requirements. A range of special sealed bearings makes it possible to design alternators for specific installations, operating in the harshest conditions whilst achieving long, maintenance-free life.

Electrical terminals

Electrical terminals are according to the customers' requirements.



Part no.	Model	Volts	Amp
T027909201	AAG1310	14V	33 A
T027909208	AAG1311	14V	33 A



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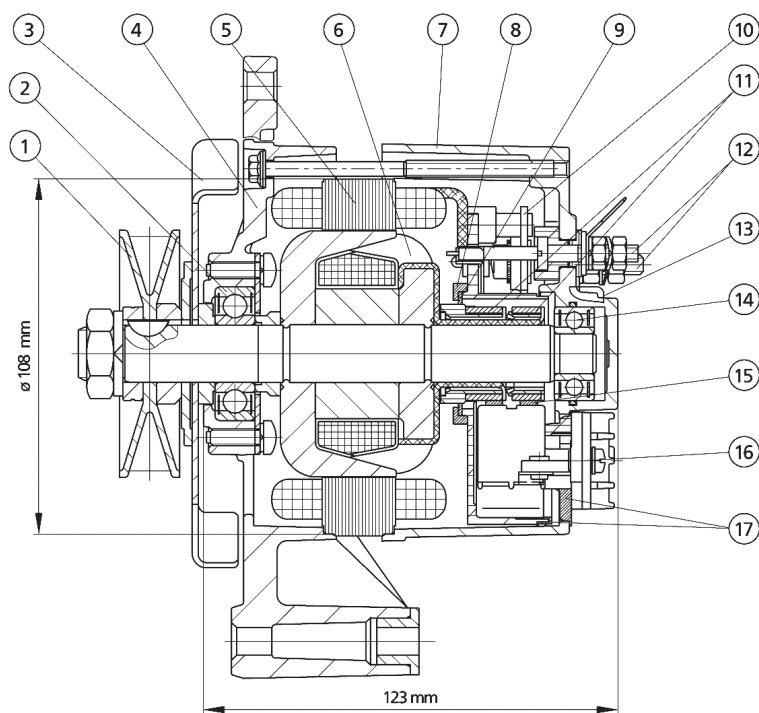
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Cross Section

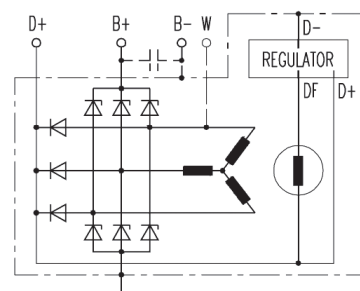


- | | |
|----------------------|---|
| 1. Pulley | 10. Rectifier |
| 2. Drive end bearing | 11. Slip rings |
| 3. Fan | 12. Terminals B+; B-; W; D+ |
| 4. Drive end bracket | 13. Capacitor |
| 5. Stator | 14. Rear bearings |
| 6. Rotor | 15. Brush |
| 7. Rear bracket | 16. Brush holder with voltage regulator |
| 8. Snap ring | 17. Rubber gaskets |
| 9. Sealing belt | |

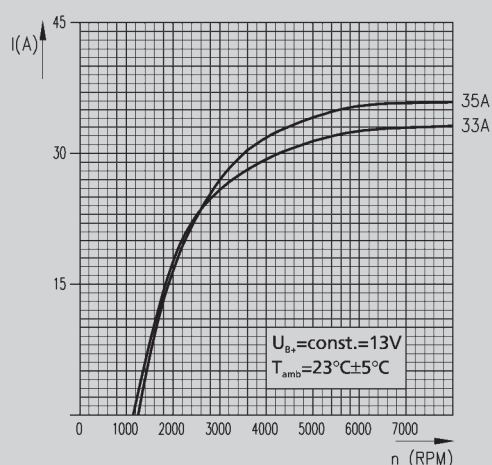
Main Technical Data

Type	AAG	
Nominal Voltage	14V	28V
Nominal Current	33A - 35A	18A
Stator Diameter	108mm	
Weight (without pulley)	3.5kg	
Max. Speed (permanent / short time)	12,000 rpm / 13,500 rpm	
Regulator	Built-in Hybrid technology	
Pulley and drive end brackets	Different types according to customers' requirements	
Terminals	Screw and/or blade terminal	
Drive end bearing	Type 6203 / 2RS	
Rear end bearing	Type 63001	
Power diodes	Press-fit Zener diodes	
Protection of the slip rings and bushes	Protected against ingress of solid foreign matter & water spray (IP54)	
Ambient temperature	From +40°C to +110°C	

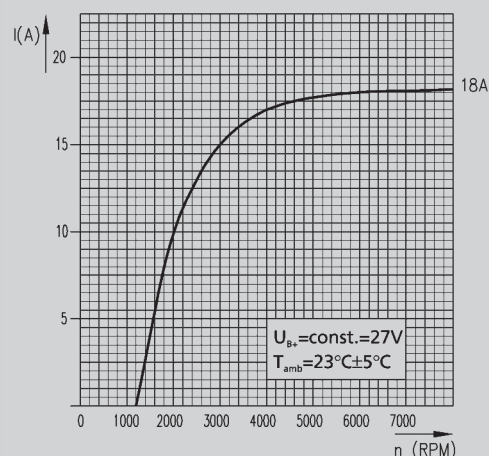
Connection Diagram



Characteristics



	n. (RPM)	I (A) at 1800 RPM	I (A) at 6000 RPM
14V 33A	1150	15	32
14V 35A	1250	13	35



	n. (RPM)	I (A) at 1800 RPM	I (A) at 6000 RPM
28V 18A	1200	8	18