

A L T E R N A T O R S

T Y P E

AAG

AAG compact

AAK

AAK compact

AAN compact

AAT



Iskra

Iskra Avtoelektrika d.d.



MAIN TECHNICAL DATA

Type	AAG	
Nominal voltage	14V	28V
Nominal current	33A - 35A	18A
Stator diameter	108 mm	
Weight (without pulley)	~3.5 kg	
Max. speed (permanent / short time)	12,000 RPM / 13,500 RPM	
Regulator	Built-in Hybrid technology	
Pulleys and drive end brackets	Different types according to customers' requirements.	
Terminals	Screw and/or blade terminal	
Drive end bearings	Type 6203 / 2RS	
Rear end bearing	Type 63001	
Power diodes	Press fit Zener diodes	
Protection of the slip rings and brushes	Protected against ingress of solid foreign matter and water spray (IP 54)	
Ambient temperature	From - 40°C to + 110°C	

APPLICATIONS

Low output powers make 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 some other applications.

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, marine, dustproof and other versions.

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 overvoltages from the alternator.

Regulator

The monofunction 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

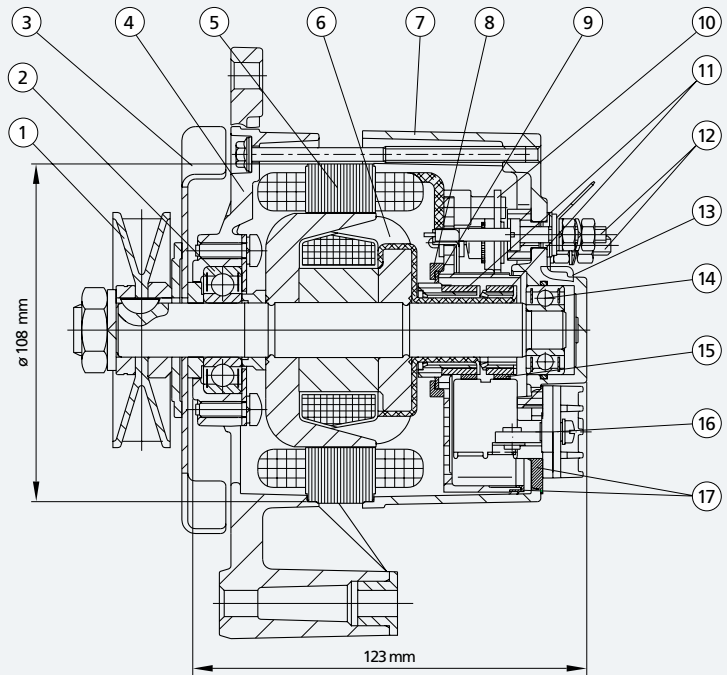
Brackets, bearings and pulleys are made according to the customers' requirements. A range of special sealed bearings makes it possible to design alternators for specific installations, operating in the harshest conditions whilst achieving long, maintenance free life.

Electrical terminals

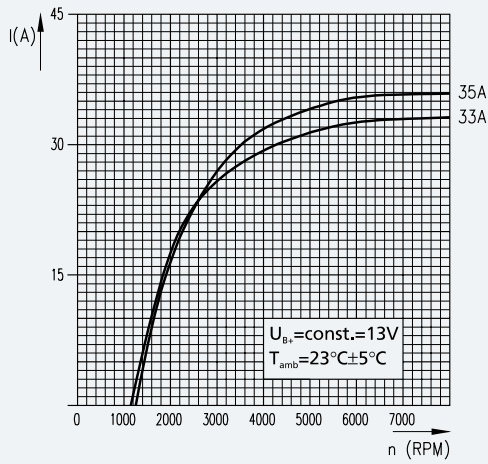
Electrical terminals are according to the customers' requirements.

CROSS SECTION

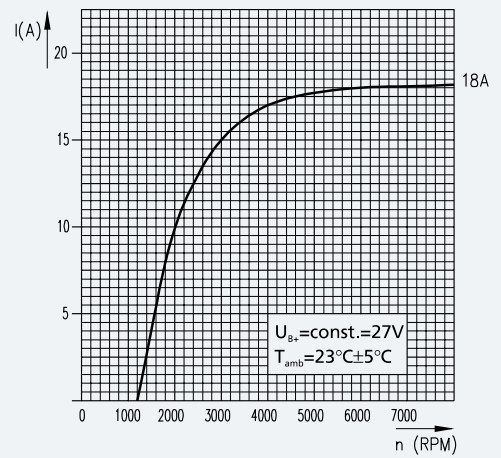
- Pos 1 ... Pulley
- Pos 2 ... Drive end bearing
- Pos 3 ... Fan
- Pos 4 ... Drive end bracket
- Pos 5 ... Stator
- Pos 6 ... Rotor
- Pos 7 ... Rear bracket
- Pos 8 ... Snap ring
- Pos 9 ... Sealing felt
- Pos 10 ... Rectifier
- Pos 11 ... Slip rings
- Pos 12 ... Terminals B+, B-, W, D+
- Pos 13 ...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



CHARACTERISTICS

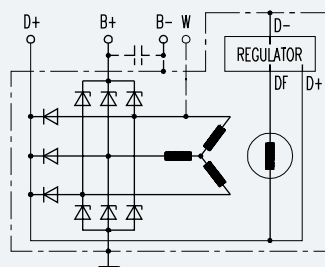


	n_o (RPM)	I (A) at 1800 RPM	I (A) at 6000 RPM
14V 33A	1150	15	32
14V 35A	1250	13	35



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

CONNECTION DIAGRAM



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