lskra



MAIN TECHNICAL DATA					
Туре	AAN Compact				
Nominal voltage	14V 28V				
Nominal current	100A-150A	60A – 100A			
Stator diameter	142 mm				
Weight	~7.3 kg without pulley				
Max. speed	20,000 RPM				
Regulator	Built-in or separate Monofunction or multifunction Microelectronic technology				
Pulleys and drive end brackets	Different types according to customers' requirements.				
Terminals	Screw and/or blade terminal				
Drive end bearings	Туре 6304Е, 62304Е				
Rear end bearings	Туре 6203				
Power diodes	Press fit Zener diodes				
Protection of the slip rings and brushes	Protected against ingress of solid foreign matter and powerful water jets (IP 56)				
Ambient temperature	From - 40°C to + 110°C				

APPLICATIONS

- for passenger cars and commercial vehicles with higher electrical demand
- for heavy-duty applications
- for special applications

Features

- high specific power and efficiency
- small dimensions
- low weight
- low noise level
- higher protection against accidental contact
- long life operation

DESIGN

The alternator is a three-phase, 12-pole synchronous self-excited generator with two internal fans and built-in regulator and rectifier. The compact construction and carefully selected materials assure improved technical characteristics and long life, service free, operation even under the harshest conditions of high and low temperatures, salt spray, humidity, water, dust, vibrations, aggressive liquids.

Stator

The stator has a three-phase winding on a laminated pack. The selected design and high filling factor of the stator slots provides improved cooling, low noise and high output characteristics.

Cooling

Two internal fans positioned on the claw poles provide more effective cooling with lower noise and higher protection against accidental contact as well as higher output.

Rotor

Smaller slip rings assure higher brush durability, even at high speeds. Encapsulated slip rings offer increased durability of the alternator.

Rectifier

Sandwich construction of the rectifier with press fit Zener diodes provides for low temperatures of the rectifier diodes, high resistance to vibrations and protection of loads on the vehicle against alternator overvoltages. The installation of the rectifier on the outer side of the rear end bracket ensures flexible arrangement of all types of terminals.

Regulator

The regulator together with the brush holder is assembled on the rear end bracket. Regulators use microelectronic technology and are mono or multifunction. The highest quality of brushes ensure long life of the alternator.

Bearings - Brackets - 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.

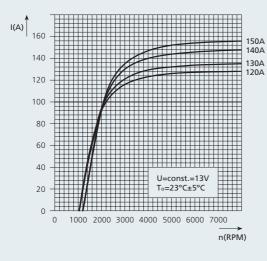
Electrical terminals

Electrical terminals are according to the requirements of the customers.

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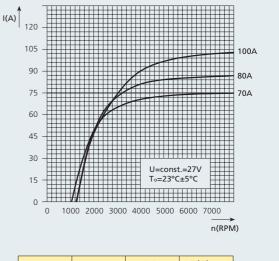
CROSS SECTION (2) (3) (1)(4) (6) 5 Pos 1 ... Pulley Pos 2 ... Drive end bearing (13) Pos 3 ... Drive end bracket (14) Pos 4 ... Stator with winding (12) Pos 5 ... Rotor hana (11) Pos 6 ... Rear bracket ø 142 mm H Pos 7 ... Rectifier with diodes (10) Pos 8 ... Protective cover 1 North (9) Pos 9 ... Terminals B+, D+, W (8) Pos 10 ... Rear bearing 7) Pos 11 ... Slip rings Pos 12 ...Brush Pos 13 ... Brush holder with voltage regulator 148 mm Pos 14 ... Rubber gaskets

C H A R A C T E R I S T I C S



	I (A) at	I (A) at
n。(RPM)	1800 RPM	6000 RPM
1050	78	125
1050	80	134
1200	72	145
1200	74	154
	1050 1050 1200	n. (RPM) 1800 RPM 1050 78 1050 80 1200 72

CONNECTION DIAGRAM



		I (A) at	I (A) at
	n。(RPM)	1800 RPM	6000 RPM
28V 70A	1050	41	74
28V 80A	1250	39	85
28V 100A	1250	38	100

