lskra



MAIN TECHNICAL DATA			
Туре	AZE12 / AZE15		
Nominal voltage (V)	12		24
Rated power (kW)	0.9	1.0	1.6
Length-AZE12/AZE15	< 157	< 170	<157
"L" (mm)			
Weight-AZE12/AZE15	3.8		3.8
(kg)	to	3.5	to
	4.0		4.0
Yoke diameter (mm)	80		
Stator	6 permanent magnets		
Drive assembly	5 rollers		
Solenoid 12V	pull-in current < 50 A		
	hold-in current < 10 A		
24V	pull-in current < 30 A		
	hold-in current < 7.5 A		
Terminals	30 - M8		
	31 - M8		
	50 - M5, M6, 6.3 x 0.8		
	15a - 6.3 x 0.8, M5 (option)		
Basic protection	Protected against ingress of dust, solid foreign		
	objects and splashing water (IP 56)		
Ambient temperature	- 40°C to + 110°C		

DIRECT DRIVE STARTER MOTORS

APPLICATIONS

Petrol engines of up to 1.5 litre displacement for passenger cars. Small diesel engines with up to 0.5 litre displacement for marine and agricultural applications.

FEATURES

- High specific power output and efficiency.
- Excellent cold crank capability with low current drain from battery.
- Reduced weight and dimensions in comparison to starter motors with field windings.
- Highly efficient drive assembly for idle run of the pinion.

DESIGN

Excitation by high quality and high coercivity ferrite 6-pole permanent magnets for high torque output.

Magnetic shunts improve the output power and enable high stability and resistance to demagnetisation.

Pinion shift mechanism with solenoid, fork lever and helix.

Five-roller clutch and drive assembly is designed to transmit power from the starter motor to the engine.

Solenoid switch with pull-in and hold-in windings.

High quality thermal resistant materials.

Support brackets of die cast aluminium.

Free of asbestos, cadmium, beryllium and ammonia.

AZE12/AZE15

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CROSS SECTION



1. Drive end bracket • 2. Drive assembly • 3. Engaging lever • 4. Starter switch • 5. Stator • 6. Armature 7. Commutator end bracket

CONNECTION DIAGRAMS

CHARACTERISTICS





BATTERY 44Ah 210A DIN 100% charged at To=+20°C 80% charged at To=-20°C n(RPM) P(kW) M(Nn mΩ 1.2 6000 12 12 1.0 5000 10 10 4000 8 0.8 8 0.6 3000 6 6 0.4 2000 4 4 0.2 1000 2 2 0 100 150 200 250 300 350 400 450 50



