

S T A R T E R M O T O R S

T Y P E	AZD	AZE	AZF	AZG	AZJ
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Iskra

Iskra Avtoelektrika d.d.



MAIN TECHNICAL DATA

Type	AZD 21 .. - Nose AZD 26 .. - Noseless
Nominal voltage	12 V
Rated power	1.1 kW - 1.4 kW
Length-nose Length-noseless	< 200 mm < 201 mm
Weight-nose Weight-noseless	< 2.9 kg < 2.8 kg
Yoke diameter	70 mm
Stator	6-permanent magnets
Drive assembly	5 rollers
Solenoid	Pull-in current < 50A Hold-in current < 10A
Terminals	30 - M8 50 - M4 or M5, blade 6.4 x 0.8
Basic protection	Protection against ingress of dust, solid foreign objects and splashing water (IP56)
Operating temperature	- 30°C to + 110°C
Ambient temperature	- 40°C to + 130°C

STARTER MOTORS WITH REDUCTION GEAR AND PERMANENT MAGNETS

The advantages of these starters are compact dimensions, high specific power output and high efficiency resulting in excellent cold crank of the engine. Noseless version is available for specific design of some engines.

APPLICATIONS

Starter motors for petrol engines from 1.4 to 3.0-litre of capacity for passenger cars and light commercial vehicles.

FEATURES

- High specific power output and efficiency.
- Excellent cold crank capability.
- Reduced weight and dimensions in comparison to direct drive starter motors.
- Nose or noseless versions for specific applications.
- Pinion, flange, electrical terminals and sense of rotation are customized to the specific engines.
- Special versions are available on request.
- High reliability and long life operation.

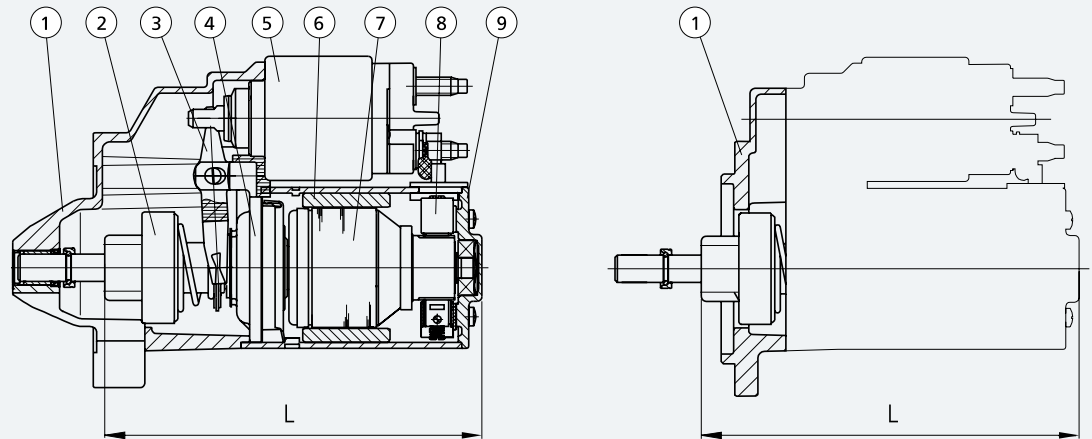
DESIGN

- Pre-engaged system of starter motor.
- High quality ferrite permanent magnets.
- Epicyclical reduction gear for high torque output.
- Drive assembly with five rollers clutch.
- Pinion shift mechanism with solenoid and fork lever.
- Solenoid switch with pull-in and hold-in winding.
- High quality thermal resistant materials.
- Drive end brackets made of die cast aluminium.
- Drain holes on request.
- End-of-life Directive 2000/53/EC respected and also free of asbestos, beryllium and ammonia.

OPTIONS

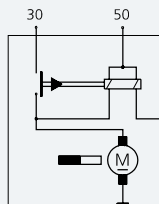
- Dust protection of bushing in drive end bracket.

CROSS SECTION

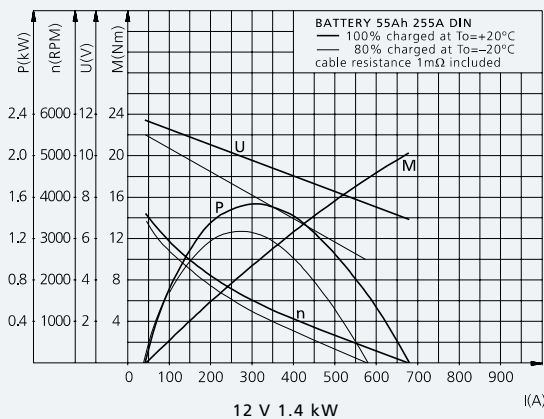
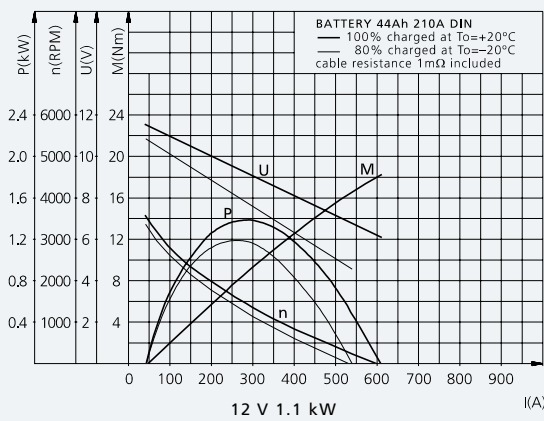


- 1. Drive end bracket • 2. Drive assembly • 3. Engaging lever • 4. Reduction gear • 5. Switch • 6. Stator
- 7. Armature • 8. Brush holder • 9. Commutator end bracket

CONNECTION DIAGRAM



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