

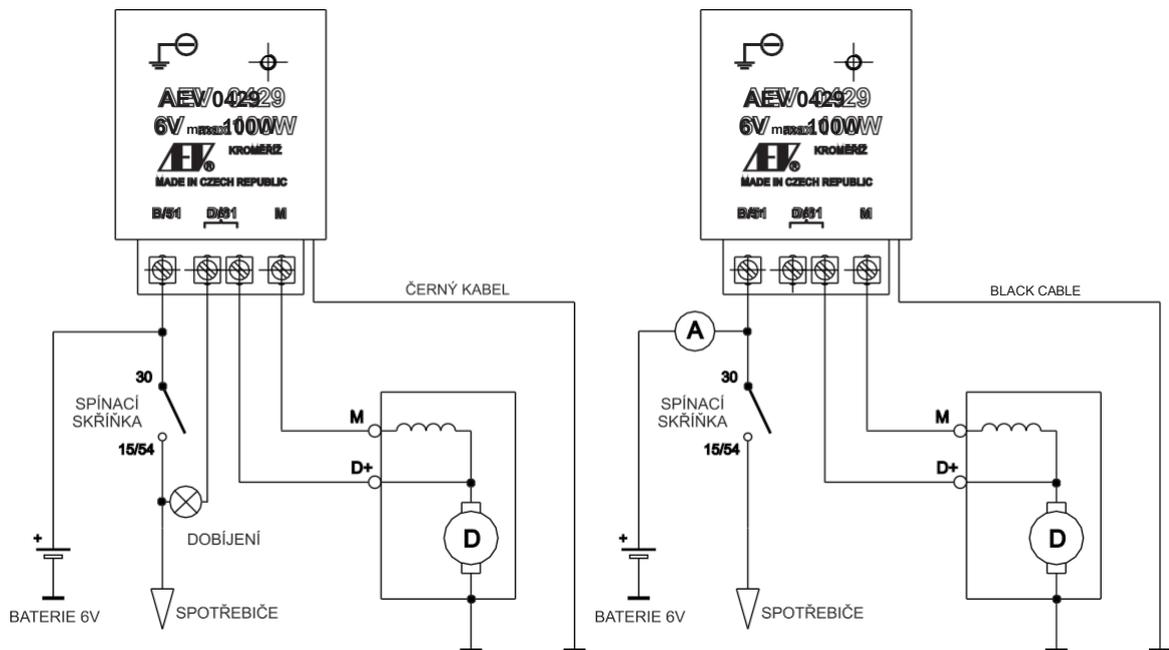
Dynamo regulator – 6V/max. 100W

AEV 0429

The regulator is designed to regulate shunt dynamos in a circuit with so-called negative regulation, where the regulator switches the dynamo's field winding to ground, and for a circuit with a nominal voltage of 6V, which is operated with the **negative** terminal of the battery connected to ground. The regulator ensures regulation of the alternator's output voltage, but does not protect the alternator against current overload and provides a reverse switch function, which disconnects the battery from the alternator in the event of reverse current from the battery to the alternator when the engine is stationary or in the event of an alternator fault.



APPLICATIONS DIAGRAM WIRING

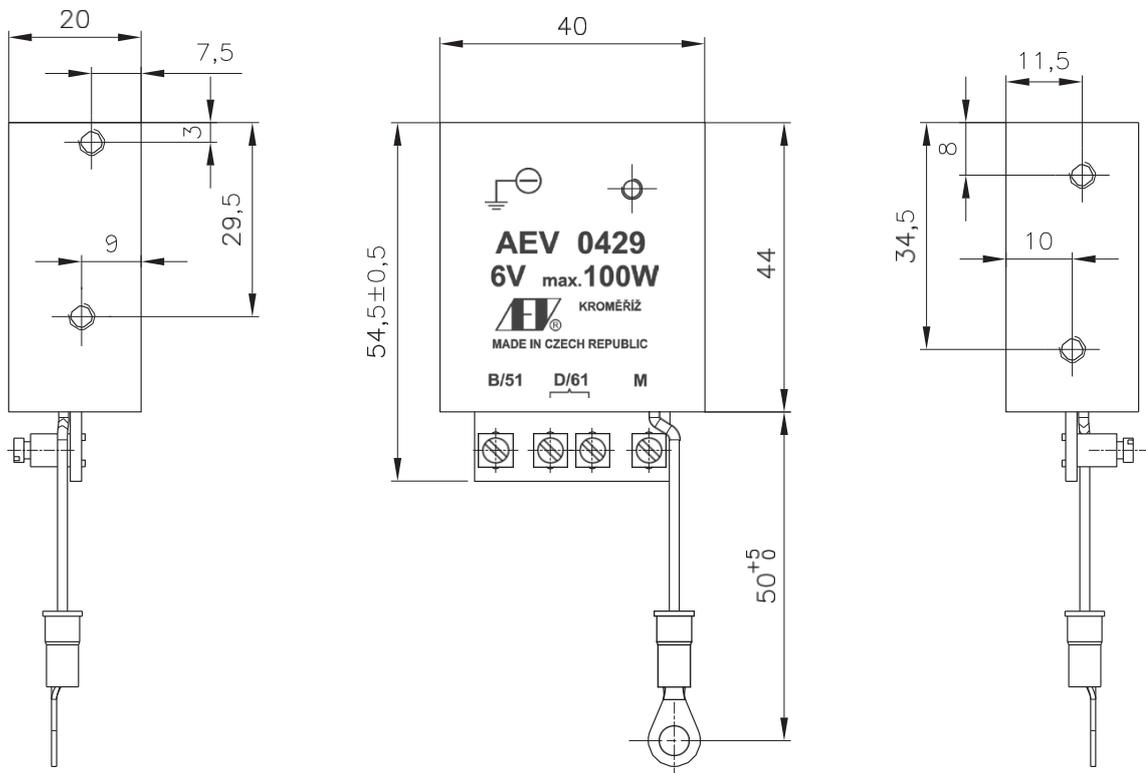


The application diagram shows the basic connection of the regulator and alternator to the vehicle's electrical system. When installing the regulator, please note that the regulator is not protected against reverse polarity and the battery must always be connected to the vehicle's electrical system with the negative terminal connected to the chassis.

The regulator's function is not dependent on the use of a charging indicator lamp, and the regulators can therefore also be used in vehicle electrical systems where an ammeter is used to monitor the power supply unit's operation.

The regulator terminals are fitted with screw terminals for connecting wires with a cross-section of up to 2.5 mm². The terminals on terminal D/61 are duplicated to simplify the connection of the battery charging indicator light.

DIMENSIONS



The dimensions of the regulator are designed so that it can be installed in the mounting space of the original electromechanical regulator. The mounting holes in the regulator housing are fitted with M4 threads. During installation, M4 screws of such a length must be used that the depth of their insertion into the regulator housing does not exceed 4 mm; otherwise, there is a risk of damaging the regulator. The cable lug of the regulator's frame conductor is designed for an M4 screw. The housing is potential-free and is isolated from the live parts of the regulator with a dielectric strength of at least 200V.

TECHNICAL PARAMETERS

Nominal mains voltage	6V
Battery negative terminal	negative
Regulation type	negative
Regulated alternator voltage	7.3±0.1V
Rated dynamo power	max. 100W
Current limit	None
Maximum excitation current	4A
Quiescent current	< 1mA/6.5V
Operating temperature	-20°C to +90°C
Storage temperature	-40°C to +100°C
Minimum resistance of the excitation winding	≥2Ω