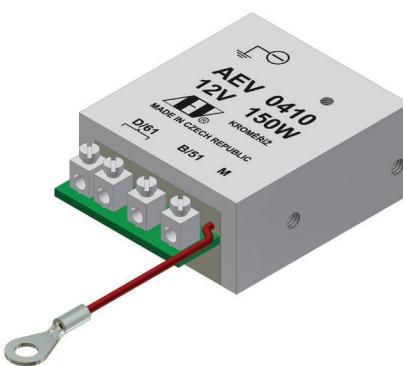




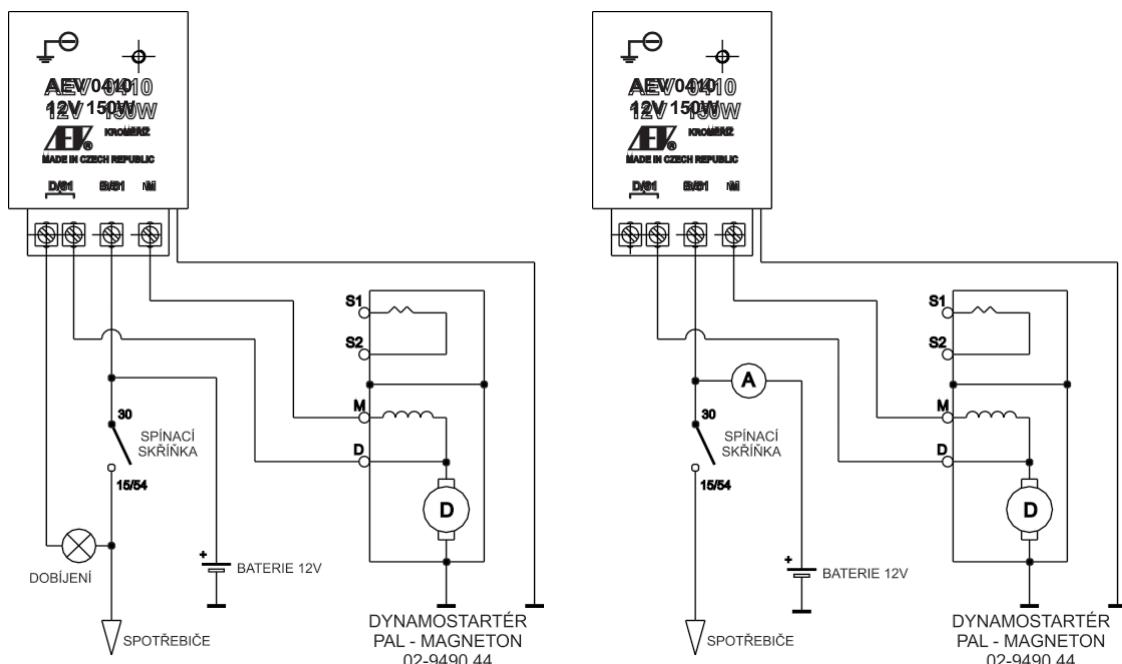
Dynamo regulator – 12V/150W

AEV 0410

The regulator is designed to regulate shunt dynamos in a so-called negative regulation circuit, where the regulator switches the dynamo excitation winding against the chassis and for a network with a nominal voltage of 12V, which is operated with the **negative** pole of the battery on the chassis. The regulator regulates the output voltage of the dynamo, protects it against current overload and acts as a reverse switch, which disconnects the battery from the dynamo in the event of reverse current from the battery to the dynamo when the engine is stationary or in the event of dynamo failure.



APPLICATION DIAGRAM

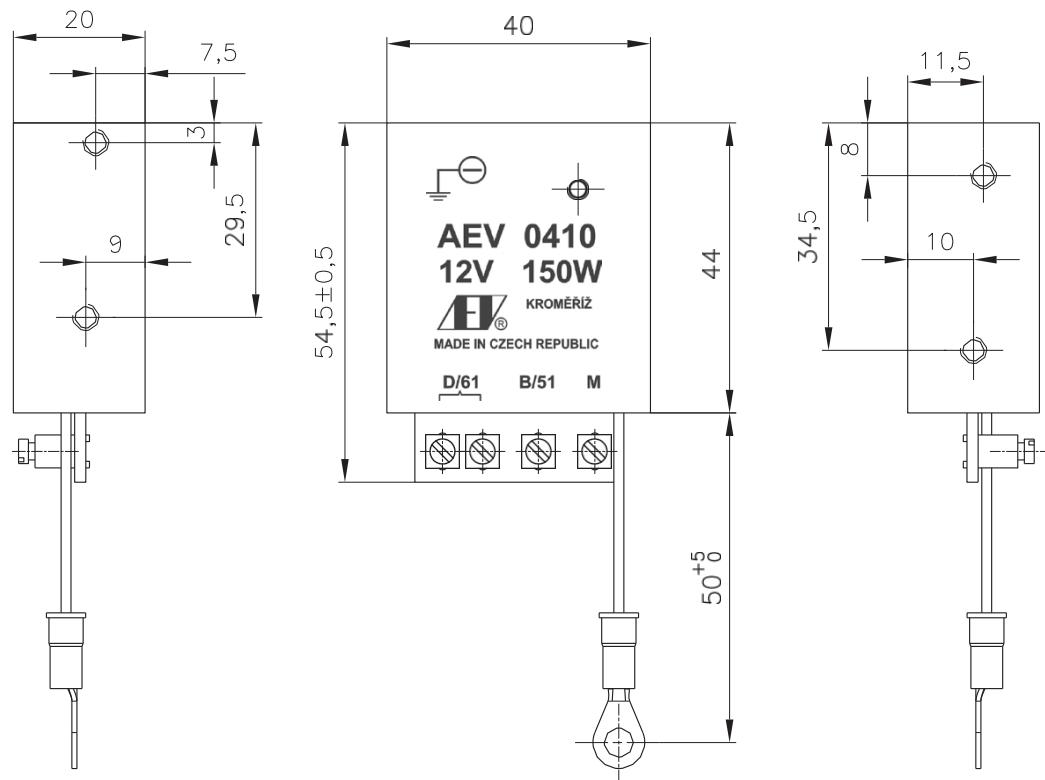


The application diagram shows the basic connection of the regulator and dynamo to the vehicle's electrical system. When using the regulator, it is important to note that the regulator is not protected against polarity reversal and that the vehicle's electrical system must always have a battery connected with the negative terminal connected to the chassis.

The function of the regulator is not dependent on the use of a charging indicator light, and the regulators can therefore also be used in vehicle electrical systems where an A-meter is used to check the function of the power supply unit.

The regulator terminals are designed with screw terminals for connecting wires with a maximum cross-section of 2.5 mm². The D/61 terminal clamps are doubled to simplify the connection of the battery charging indicator light terminal.

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 casing are equipped with M4 threads. During installation, M4 screws of such a length must be used that the length of their screw-in into the regulator casing does not exceed 4 mm, otherwise there is a risk of damage to the regulator. The cable lug of the controller frame conductor is designed for an M4 screw. The casing is potential-free and is separated from the live parts of the controller with an electrical strength of at least 200V.

TECHNICAL PARAMETERS

Nominal mains voltage	12V
Grounded battery terminal	minus
Type of regulation	negative
Regulated dynamo voltage	14.6 ± 0.2V
Nominal dynamo power	150W
Current limitation	11.0 A ± 5%
Maximum excitation current	4A
Quiescent current	< 1mA/12.5V
Operating temperature	-20°C to +90°C
Storage temperature	-40°C to +100°C
Minimum excitation winding resistance	≥ 4Ω