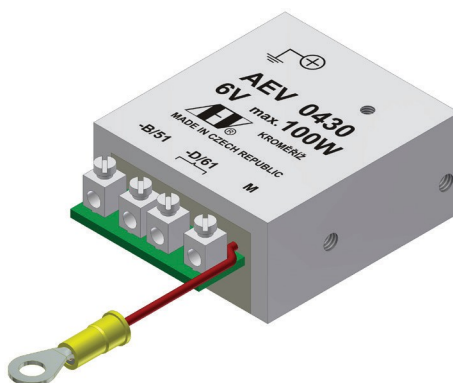


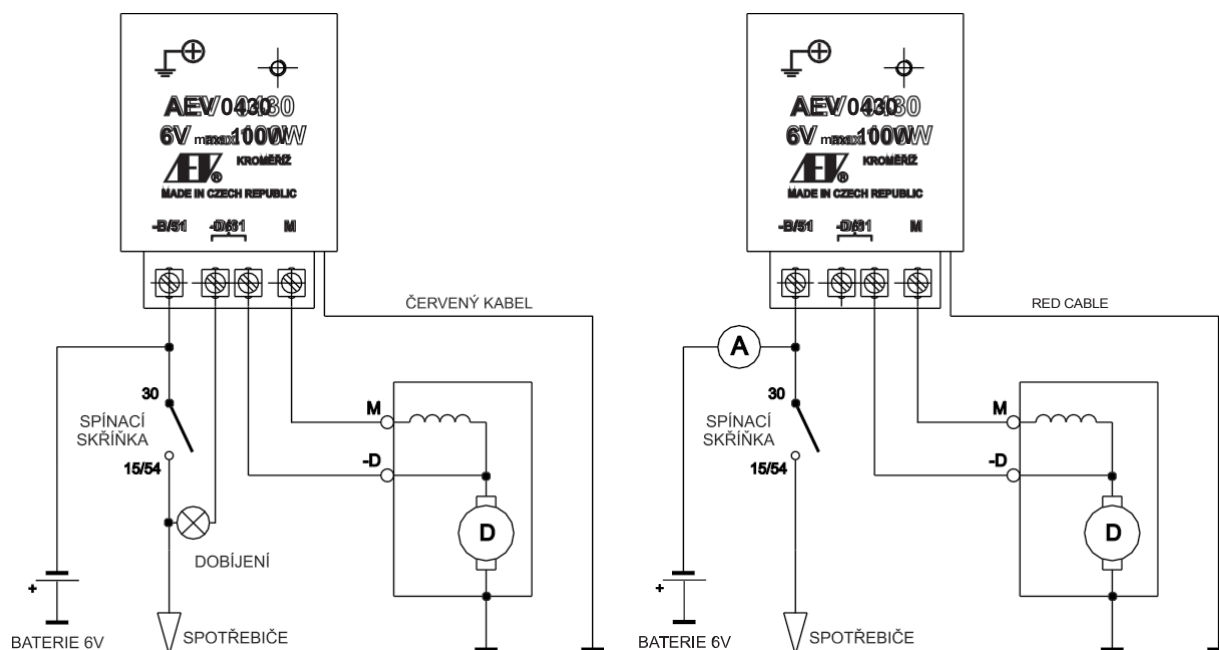
Dynamo regulator – 6V/max. 100W

AEV 0430

The regulator is designed to regulate shunt dynamos in a so-called negative regulation circuit, where the regulator switches the excitation winding of the dynamo against the frame for a network with a nominal voltage of 6V, which is operated with the **positive** pole of the battery on the frame. The regulator regulates the output voltage of the dynamo, but does not protect the dynamo against current overload and provides a reverse switch function, which disconnects the battery from the dynamo in the event of reverse current from the battery to the dynamo when the engine is stopped or in the event of dynamo failure.



APPLICATION SCHEME

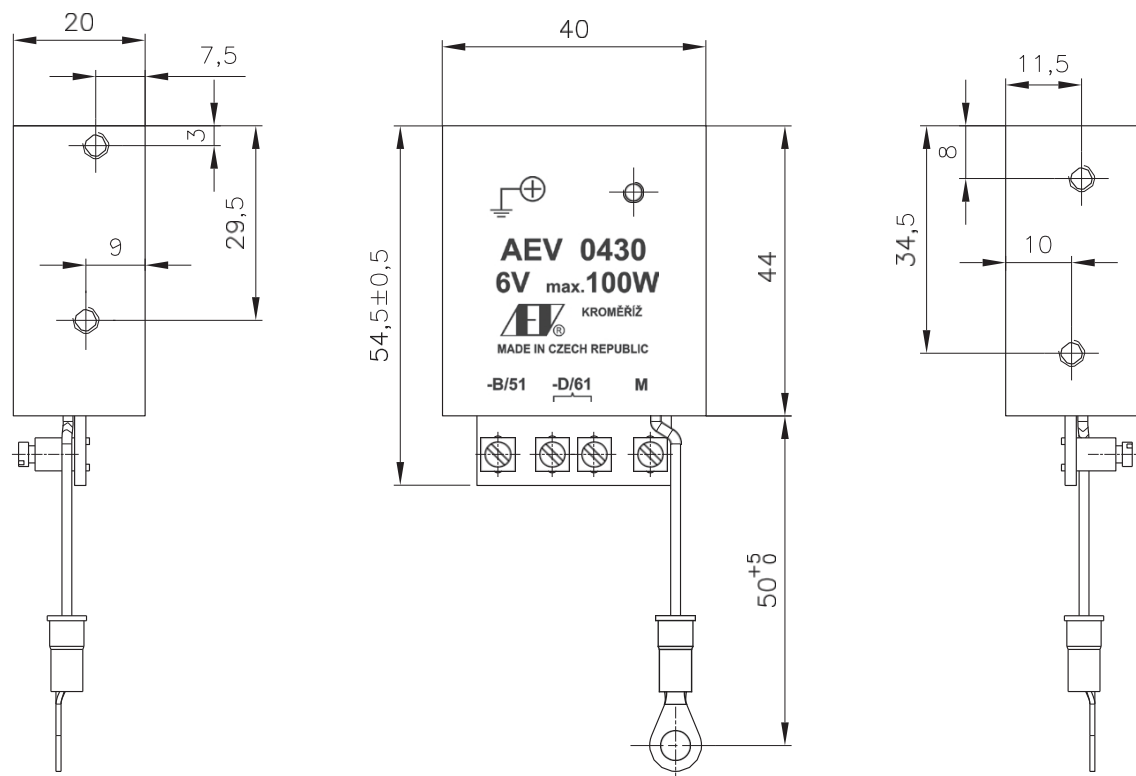


The application diagram shows the basic connection of the regulator and dynamo to the vehicle's electrical system. When using the regulator, it is important to note that the regulator is not protected against reverse polarity and that the battery must always be connected to the vehicle's electrical system with the positive 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 housing 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 housing does not exceed 4 mm, otherwise there is a risk of damage to the regulator. The cable lug of the controller frame is designed for an M4 screw. The housing 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	6V
Grounded battery terminal	plus
Type of regulation	negative
Regulated dynamo voltage	7.3±0.1V
Nominal dynamo power	max. 100W
Current limitation	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 excitation winding resistance	≥2Ω

A P P L I C A T I O N S , U S E

In terms of electrical and dimensional parameters, the regulators are designed to replace electromechanical regulators for all common JAWA and ČZ motorcycle dynamos. The properties of the regulators are designed to meet the requirement for continuous lighting of motorcycles while ensuring the best possible battery charging within the capabilities of the dynamo used.