

DC Motor/Generator 579759 (8211-00)

FESTO

LabVolt Series

Datasheet

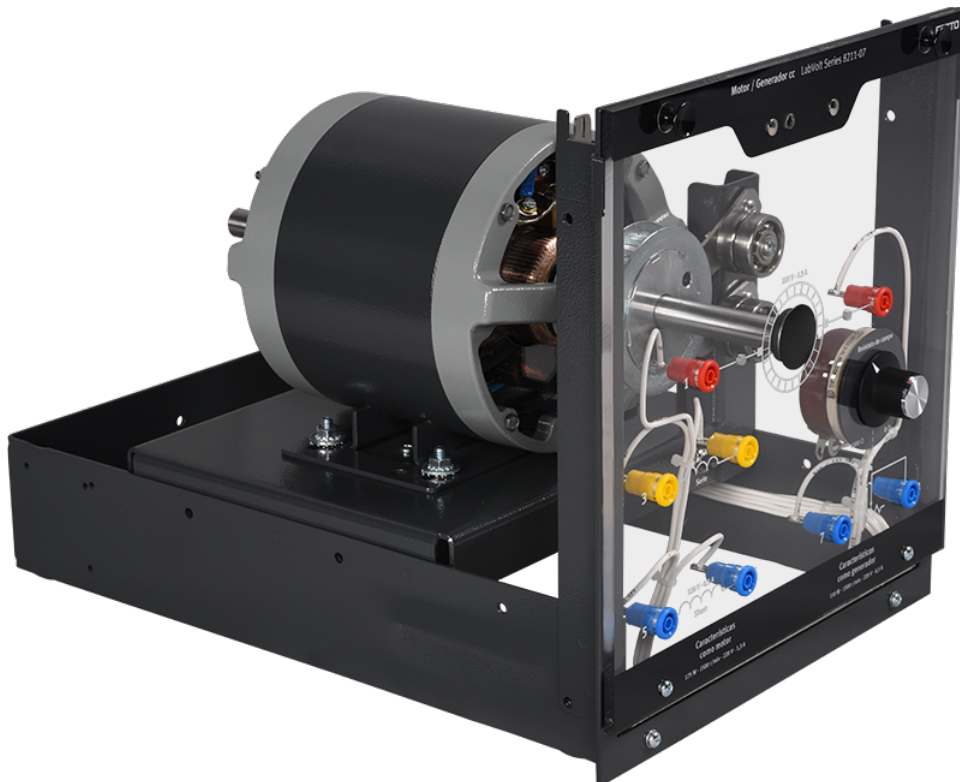


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General Description

The DC Motor/Generator is a dc machine mounted in a full-size EMS module. It can operate independently as a dc motor or a dc generator. The armature, shunt field, and series field windings are terminated separately on the faceplate to permit long and short shunt as well as cumulatively and differentially compounded motor and generator connections. This machine is fitted with exposed movable brushes to allow students to study the effect of armature reaction and commutation while the machine is operating under load.

An independent, circuit-breaker protected, shunt-field rheostat is mounted on the faceplate for motor speed control or generator output voltage adjustment. The speed of the DC Motor/Generator can be controlled using the Thyristor Speed Controller, Model 9017, in both the open-loop and closed-loop modes of control.

Specifications

Parameter	Value
Rating	
Motor Output Power	175 W
Generator Output Power	120 W
Armature Voltage	120 V dc
Shunt Field Voltage	120 V dc
Full-Load Speed	1800 r/min
Full-Load Motor Current	2.8 A
Full-Load Generator Current	1 A
Physical Characteristics	
Dimensions (H x W x D)	308 x 287 x 445 mm (12.1 x 11.3 x 17.5 in)
Net Weight	14.1 kg (31 lb)

Reflecting the commitment of Festo Didactic to high quality standards in product, design, development, production, installation, and service, our manufacturing and distribution facility has received the ISO 9001 certification.

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