

Synchronous Motor/Generator 586351 (8241-00)

FESTO

LabVolt Series

Datasheet



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General Description

The Synchronous Motor/Generator is a 0.2 kW three-phase synchronous machine mounted in a full-size EMS module. This machine can be operated either as a three-phase motor or a three-phase generator. Each phase of the machine stator windings is independently terminated and identified on the front panel to allow operation in either wye or delta configuration. The machine rotor is equipped with a squirrel-cage damper. Variable dc excitation to the rotor field windings is fed through externally mounted slip rings and brushes that are wired to a rheostat and control switch located on the front panel.

Connections to the machine are made through color-coded safety banana jacks located on the front panel of the module. This front panel can be opened to install a Timing Belt, Model 8942, on the pulley of the machine shaft. This permits mechanical coupling of the machine to the Four-Quadrant Dynamometer/Power Supply, Model 8960.

Specifications

Parameter	Value
Motor	
Stator Voltage	120/208 V, 60 Hz, 3-phase
Rotor Voltage	120 V dc
Output Power	175 W
Synchronous Speed	1800 r/min
Full-Load Current	0.8 A
Generator	
Stator Voltage	120/208 V, 60 Hz, 3-phase
Rotor Voltage	120 V dc
Output Power	120 VA
Synchronous Speed	1800 r/min
Nominal Output Current	0.33 A
Physical Characteristics	
Dimensions (H x W x D)	308 x 287 x 440 mm (12.1 x 11.3 x 17.3 in)
Net Weight	14 kg (30.8 lb)

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