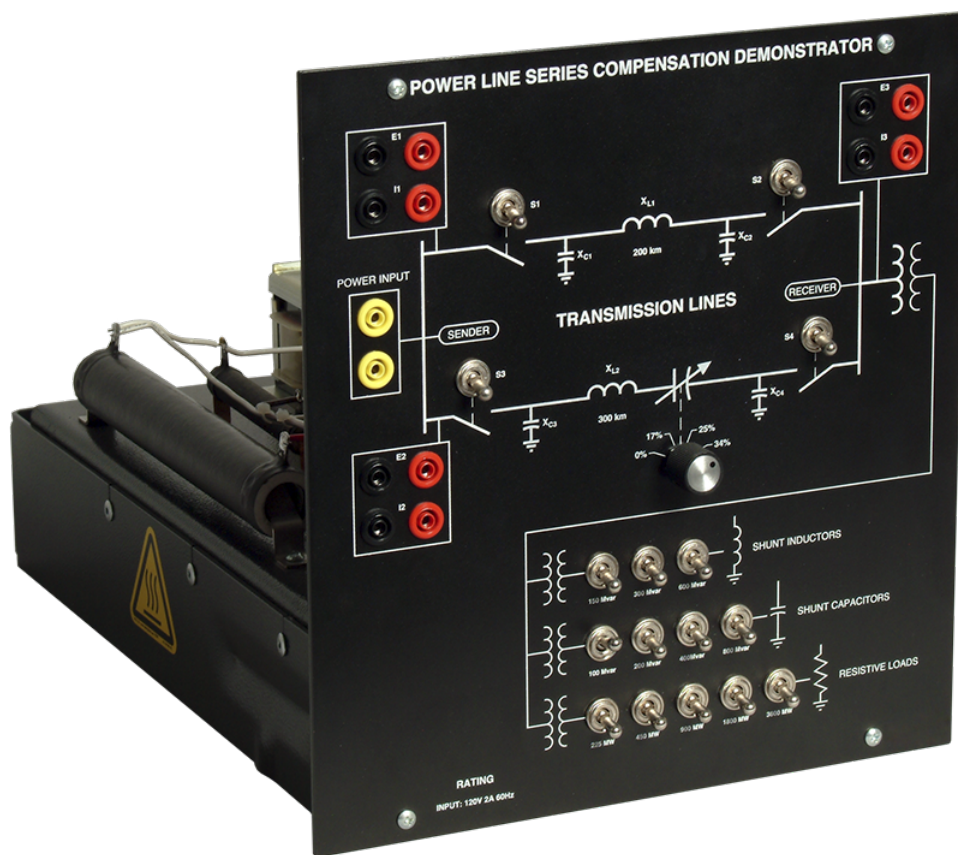


Power Line Series Compensation Demonstrator (Add-on to EMS) 586477 (8362-A0)

FESTO

LabVolt Series

Datasheet



* The product images shown in this document are for illustration purposes; actual products may vary. Please refer to the Specifications section of each product/item for all details. Festo Didactic reserves the right to change product images and specifications at any time without notice.

Festo Didactic
en 120 V - 60 Hz
03/2025

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General Description

The Power Line Series Compensation Demonstrator (EMS Version) is a variant of the Power Line Series Compensation Demonstrator, Model 8362, that does not include any test equipment, leads, or power supply. It is mounted in a full-size EMS module and requires a Data Acquisition and Control Interface, with the Power Line Series Compensation Function Set and the LVDAC-EMS software for all the required measurements.

Manual

Description

Manual number

Power Line Series Compensation Demonstrator (User Guide) _____ 584246 (31993-E0)

Table of Contents of the Manual(s)

Power Line Series Compensation Demonstrator (User Guide) (584246 (31993-E0))

- 1 Power Transfer Capability of a Transmission Line
- 2 Effects of Series Compensation on Power Transfer Capability and System Stability
- 3 Effect of Series Compensation on Regulation of the Receiver Voltage
- 4 Reduction of the Transmission Losses on Parallel Lines Using Series Compensation

Additional Equipment Required to Perform the Exercises (Purchased separately)

Qty Description

Model number

1 Power Line Series Compensation Function Set _____ 581461 (9069-S0) ¹

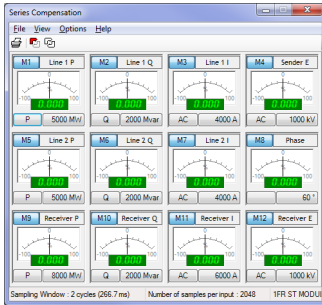
Specifications

Parameter	Value
Power Requirement	
Current	2 A (circuit-breaker protected)
Service Installation	Standard single-phase ac outlet
Line 1	
Simulation Length	200 km
Simulated Nominal Power	4500 MW
Line 2	
Simulation Length	300 km
Simulated Nominal Power	3000 MW
Compensation	17 %, 25 %, and 34 %
Front panel switches for various system configurations	Toggle type (16), rotary type (1)
Physical Characteristics	
Intended Location	On a table able to support the weight of the equipment
Dimensions (H x W x D)	308 x 291 x 440 mm (12.1 x 11.5 x 17.3 in)
Net Weight	TBE

¹ For the required data acquisition.

Module Options Description

Power Line Series Compensation Function Set 581461 (9069-S0)



The Power Line Series Compensation Function Set enables the Series Compensation function in LVDAC-EMS.

Additional Equipment Required to Perform the Exercises (Purchased separately)

Qty	Description	Model number
1	Power Line Series Compensation Demonstrator (Add-on to EMS)	586477 (8362-A0)

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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