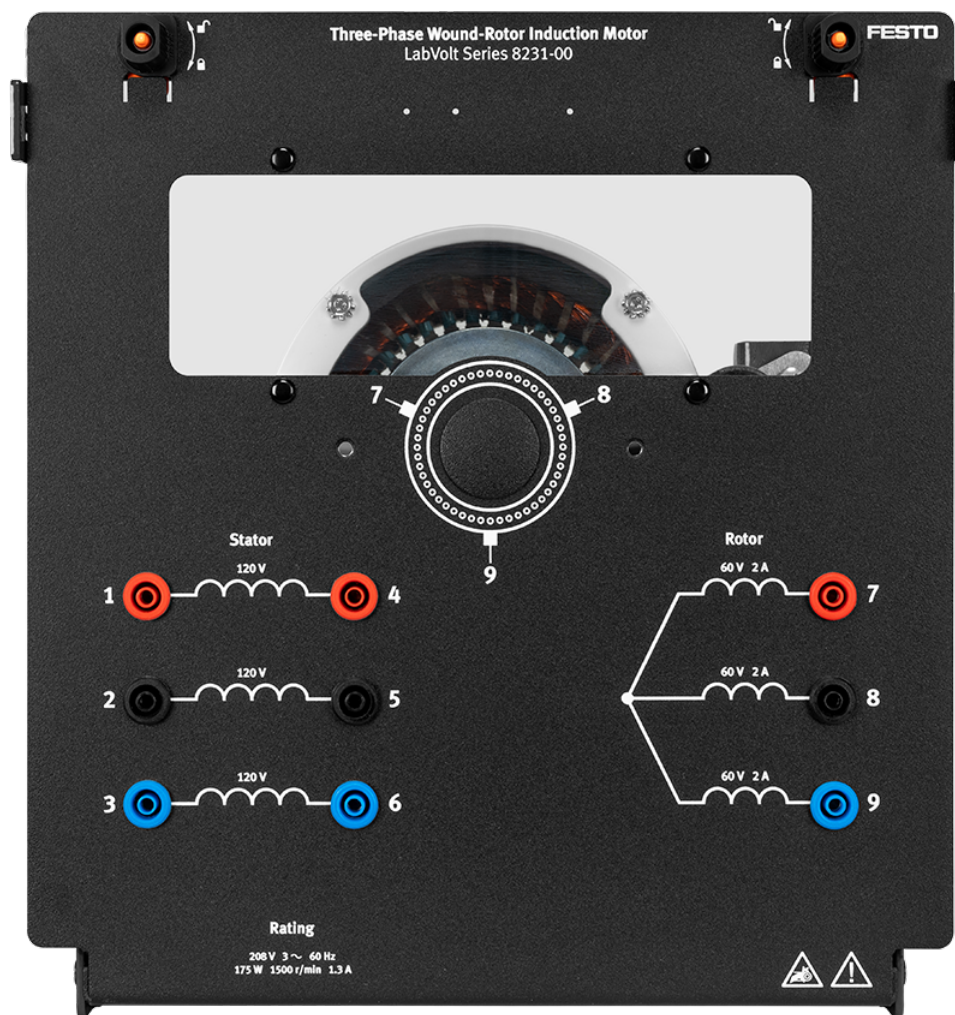


Three-Phase Wound-Rotor Induction Machine 586335 (8231-0A)

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 240 V - 50 Hz
02/2025

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General Description

The Three-Phase Wound-Rotor Induction Machine is a rotating machine mounted in a full-size EMS module. Each phase of the stator windings is independently terminated and identified on the faceplate to permit operation in either delta or star (wye) configuration. The rotor windings are brought out to the faceplate via external slip rings and brushes. This machine can be used as a wound-rotor induction motor, phase shifter, single-phase variable coupling transformer, three-phase transformer, selsyn control, frequency converter or asynchronous induction generator. The speed of the machine can be controlled through the use of the Three-Phase Rheostat.

This version has a 2:1 turn ratio on the rotor, which is optimized for using with a rotor rheostat. There is also a different version that has a higher turn ratio on the rotor, to be used as a DFIG.

List of Manuals

| Description | Manual number |
|---|-------------------|
| Phase-Shifting with Transformers (Workbook) _____ | 583981 (27082-00) |
| The Wound-Rotor Induction Motor and Applications (Workbook) _____ | 584327 (35064-00) |

Table of Contents of the Manual(s)

Phase-Shifting with Transformers (Workbook) (583981 (27082-00))

- 1 Phase Shifting with Transformers

The Wound-Rotor Induction Motor and Applications (Workbook) (584327 (35064-00))

- 1 The Wound-Rotor Induction Motor – Part I
- 2 The Wound-Rotor Induction Motor – Part II
- 3 The Wound-Rotor Induction Motor – Part III
- 4 Frequency Conversion
- 5 Reactance and Frequency
- 6 Selsyn Control

Specifications

| Parameter | Value |
|---------------------------------|--|
| Power Requirement | 240/415 V |
| Rating | |
| Output Power | 175 W |
| Stator Voltage | 240/415 V, 3-phase |
| Rotor Voltage | 120/208 V, 3-phase |
| Full-Load Speed | 1315 r/min |
| Full-Load Current | 0.48 A |
| Physical Characteristics | |
| Dimensions (H x W x D) | 308 x 291 x 440 mm (12.1 x 11.5 x 17.3 in) |
| Net Weight | 14 kg (30.8 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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