

Four-Pole Squirrel-Cage Induction Motor, 2 kW 586569 (8503-00)

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
03/2022

Table of Contents

General Description _____	2
Specifications _____	2

General Description

The Four-Pole Squirrel-Cage Induction Motor consists of a 3-phase machine rated at 2 kW. Each phase of the stator winding is accessible via the connection module to allow wye or delta connections. The machine is equipped with a standard cast-aluminum squirrel cage rotor.

The winding dimensions permit the study of machine operation as a squirrel-cage induction motor or as an asynchronous generator when driven by a prime mover.

The machine has a 5-turn, full-pitch stator search coil to allow the observation of the instantaneous flux distribution.

Specifications

Parameter	Value
Motor (Full Load)	
Connection	3 ~, wye connected
Line Voltage	120/208 V – 60 Hz
Power	2 kW
Speed	1770 r/min
Current	8.8 A
Torque	10.8 N·m (95.6 lbf·in)
Efficiency	80%
Power Factor	0.77
Friction and Windage Losses	130 W
Iron Losses	70 W
Motor (Starting)	
Current	55 A
Torque	12.3 N·m (108.9 lbf·in)
Stator Resistance (per phase at 25° C)	0.6 Ω
Search Coil	
Stator - Full Pitch	5 turns
Physical Characteristics	
Moment of Inertia	0.107 kg·m ² (365.7 lb·in ²)
Dimensions (H x W x D)	830 x 400 x 605 mm (32.7 x 15.7 x 23.8 in)
Net Weight	88 kg (193.6 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.

Festo Didactic reserves the right to make product improvements at any time and without notice and is not responsible for typographical errors. Festo Didactic recognizes all product names used herein as trademarks or registered trademarks of their respective holders. © Festo Didactic Inc. 2022. All rights reserved.

Festo Didactic SE

Rechbergstrasse 3
73770 Denkendorf
Germany

P. +49(0)711/3467-0
F. +49(0)711/347-54-88500

Festo Didactic Inc.

607 Industrial Way West
Eatontown, NJ 07724
United States

P. +1-732-938-2000
F. +1-732-774-8573

Festo Didactic Ltée/Ltd

675 rue du Carbone
Québec QC G2N 2K7
Canada

P. +1-418-849-1000
F. +1-418-849-1666

www.labvolt.com

www.festo-didactic.com