1PH8105-1DF02-0LA1

Industrial automation components

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Manufacturer	Siemens
Catalog number	1ph8105-1df02-0la1
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Motor Type	Squirrel cage asynchronous motor
Shaft Height	100 mm
Cooling	Forced ventilation DE -> NDE
Vibration Severity Grade	R/A
Nominal Speed	2000 rpm
Output Power	9.0 kW
Maximum Torque	43 Nm
Encoder Resolution	22 bit
Degree of Protection	IP55
Motor Design	IM B5
Shaft Type	Plain Shaft without Fitted Key
Bearing Type	Standard with Fixed Bearing

Description

The Siemens 1PH8105-1DF02-0LA1 is a SIMOTICS M Compact asynchronous motor designed for high-performance applications requiring precise control and reliability. This motor operates at 2000 rpm, delivering 9.0 kW of power and 43 Nm of torque, with a rated current of 17.0 A and a voltage of 453 V.

It features forced ventilation with airflow from the drive end (DE) to the non-drive end (NDE), ensuring efficient cooling during operation. The motor is enclosed in an IP55-rated housing,

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providing protection against dust and water ingress, making it suitable for demanding industrial environments.

An incremental encoder with a 22-bit resolution and commutation position (encoder IC22DQ) is integrated, offering precise feedback for motion control systems. The DRIVE-CLiQ interface facilitates seamless communication with Siemens drive systems.

Designed according to the IM B5 (IMV 1, IM V3) standard, the motor has a plain shaft without a fitted key, and the bearings are standard with a fixed bearing, vibration severity grade R/A, and shaft and flange accuracy grade R.

The terminal box is positioned above the motor with cable entry on the right, and the signal connection is at the D-end. This motor is ideal for applications requiring high torque and precise speed control, such as conveyor systems, pumps, and compressors.