1PH7103-2NG02-0CJ3

Industrial automation components

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Manufacturer	Siemens
Catalog number	1ph7103-2ng02-0cj3
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Motor Type	Induction motor
Motor Size	103
Rated Output	7 kW
Rated Speed	2000 rpm
Rated Torque	33.4 Nm
Supply Voltage	3-phase 400 V AC 50 Hz
Encoder Type	Optical sin/cos incremental encoder
Encoder Resolution	2048 pulses per revolution pulses/rev
Construction Type	IM B5 (IM V1, IM V3)
Shaft Type	Smooth shaft without fitted key
Air Flow Direction	From drive end (DE) to non-drive end (NDE)
Protection Degree (Motor)	IP55

Description

The Siemens 1PH7103-2NG02-0CJ3 is a compact asynchronous induction motor from the SIMOTICS M series, designed for high-performance applications in machine tools. This motor delivers a rated output of 7 kW at 2000 rpm, with a rated torque of 33.4 Nm, and can achieve up to 7.5 kW at 2300 rpm with a rated torque of 31.1 Nm.

It operates on a 3-phase 400 V AC 50 Hz supply and features a separately driven fan for efficient cooling. The motor is equipped with an optical sin/cos incremental encoder with 2048 pulses per

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revolution, ensuring precise speed and position control.

Its construction type is IM B5 (IM V1, IM V3), suitable for standard hoisting concepts with shaft heights of 100 and 132 mm. The motor has a smooth shaft without a fitted key, with air flow directed from the drive end (DE) to the non-drive end (NDE), and an axial discharge direction.

It offers a degree of protection IP55 for the motor and IP54 for the fan, with an anthracite paint finish. This motor is ideal for applications requiring reliable and efficient performance in demanding environments.