1PH8083-1MF22-0BC1

Industrial automation components

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Manufacturer	Siemens
Catalog number	1ph8083-1mf22-0bc1
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Brand	Siemens
Part Number	1PH8083-1MF22-0BC1
Product Type	Compact Asynchronous Motor
Rated Speed	1500 r/min
Rated Power	3.5 kW
Rated Torque	22.3 Nm
Rated Voltage	357 V
Rated Current	8.9 A
Cooling Type	Water Cooling
Protection Rating	IP65
Encoder Type	Incremental Encoder
Encoder Signal	1 Vpp Sine/Cosine

Description

The Siemens 1PH8083-1MF22-0BC1 is a compact asynchronous motor from the SIMOTICS M series, designed for high-performance applications requiring precise motion control. Operating at a rated speed of 1500 r/min, it delivers 3.5 kW of power and 22.3 Nm of torque, with a current draw of 8.9 A at 357 V.

At 1750 r/min, it provides 4 kW of power and 21.8 Nm of torque, with a current draw of 8.7 A at 416 V. At 2000 r/min, it offers 4.6 kW of power and 22 Nm of torque, with a current draw of 8.7 A at 457 V.

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At 2200 r/min, it delivers 5 kW of power and 21.7 Nm of torque, with a current draw of 8.7 A at 500 V. The motor features water cooling and has an IP65 degree of protection, ensuring reliable operation in demanding environments.

It is equipped with an incremental encoder with a 1 Vpp sine/cosine signal and a resolution of 2048 S/R, providing precise feedback for motion control applications. The motor's design conforms to the IM B5 standard, with a plain shaft without a fitted key, and is suitable for applications requiring high torque and precise speed control.