AUTOMATION TRADER

1FK7085-7AF71-1EA0

Industrial automation components

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Manufacturer	Siemens
Catalog number	1fk7085-7af71-1ea0
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Motor Type	Synchronous
Servo Type	Three-phase
Series	7
Size	08
Length	5
Cooling	Non-ventilated
Rated Speed	3000 RPM
DC Link Voltage	600 V
Construction Type	IM B5 (IM V1, IM V3)
Encoder System	Absolute value encoder EnDat (A–2048)
Shaft End	With keyway, radial eccentricity N, without holding brake
Degree of Protection	IP 64

Description

The Siemens 1FK7085-7AF71-1EA0 is a high-performance synchronous servo motor designed for demanding industrial applications. Manufactured by Siemens, this motor is part of the SIMOTICS S series, known for its high dynamic response and precision control.

It operates at a rated speed of 3000 RPM, delivering a continuous torque of 22 Nm and a peak torque of 66 Nm, making it suitable for applications requiring rapid acceleration and deceleration. The motor is naturally cooled, eliminating the need for external cooling systems, and features an IP64

degree of protection, ensuring reliable operation in various industrial environments.

Its compact design with a shaft height of 80 mm allows for flexible integration into different machinery setups. The 1FK7085-7AF71-1EA0 is equipped with an absolute encoder system (EnDat A-2048), providing precise position feedback without the DRIVE-CLiQ interface, and is constructed with a keyway shaft end, radial eccentricity N, and without a holding brake.

This motor is ideal for applications such as robotics, CNC machinery, and automated production lines, where high precision and dynamic performance are essential.