1FT6-105-8AC71-4EA1

Industrial automation components

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Manufacturer	Siemens
Catalog number	1ft6-105-8ac71-4ea1
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Current	18.4 A
Speed (RPM)	2500
Signal Level	286 V
Relay Specifications	4 A
Continuous Torque	50 Nm
Mounting Flange	IM B5
Encoder Type	Absolute Encoder (EnDat 2048 S/R)
Shaft Coupling	Feather Key
Sealing Type	Gamma Sealing Ring (IP65)

Description

The Siemens 1FT6105-8AC71-4EA1 is a SIMOTICS S synchronous servo motor from the 1FT6 series, designed for high-performance applications requiring precise motion control. This motor delivers a continuous torque of 50 Nm and operates at a rated speed of 2000 rpm, making it suitable for tasks demanding consistent and reliable performance.

It features natural cooling and is constructed with an IM B5 mounting flange, compatible with both IM V1 and IM V3 installation types. The motor is equipped with an absolute encoder (EnDat 2048 S/R), providing precise position feedback, and includes a feather key for secure shaft coupling.

Its design ensures a circular runout tolerance of N, and it operates without a holding brake. The motor's vibration severity grade is N, indicating low vibration levels during operation. Additionally, it is sealed with a gamma sealing ring (IP65), offering protection against dust and

Automation Trader
960 Capability Green
Luton, Bedfordshire LU1 3PE
VAT ID: PL6463009354
REGON: 527345886
DUNS: 427734105
BDO: 000726360

Phone
+44 7418 359 399

Email
info@automationtrader.com

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water ingress, which is essential for maintaining optimal performance in various industrial environments.

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