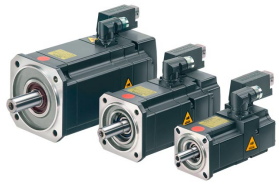
SIEMENS

synchronous servomotor



Ordering data **1FK7103-5AF71-1EH0**

Client order no. :
Order no. :
Offer no. :
Remarks :

Item no. :
Consignment no. :
Project :

Engineering data

Rated speed	3000 1/min
Number of poles	8
Rated torque (100 K)	14.0 Nm
Rated motor current	12.0 A
Static torque (60 K)	30.00 Nm
Static torque (100 K)	36.0 Nm
Stall current (60 K)	22.8 A
Stall current (100 K)	27.5 A
Rotor moment of inertia	0.0118000 kgm²
Efficiency	93.0 %

Physical constants

Torque constant	1.35 Nm/A
Voltage constant at 20º C	86.0 V/1000*min⁻¹
Winding resistance at 20º C	0.09 Ω
Rotating field inductance	2.0 mH
Electrical time constant	22.20 ms
Mechanical time constant	1.55 ms
Thermal time constant	65 min
Shaft torsional stiffness	149000 Nm/rad
Net weight of the motor	32.0 kg

Mechanical data

Motor type	Compact
Shaft height	100 mm
Encoder system	Encoder AM2048S/R: absolute encoder 2048 S/R, 4096 revolutions multi-turn, with EnDat interface
Cooling	Natural cooling
Holding brake	Permanent-magnet brake instead of spring-loaded brake (only for
Shaft extension	Plain shaft
Radial runout tolerance	N
Vibration severity grade	Grade A
Connector size	1.5
Degree of protection	IP64
Design acc. to Code I	IM B5 (IM V1, IM V3)
Electrical connectors	Connectors for signals and power rotatable
Color of the housing	Unpainted

Optimum operating point

Optimum speed	2500 1/min
Optimum power	5.4 kW

Recommended motor module

Rated inverter current	30 A
Maximum inverter current	56 A
Maximum torque	73.00 Nm

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