

## Data sheet for SIMOTICS S-1FK7 servo geared motor

Article No. : **1FK7032-2AK71-1QG0-Z**  
V40



Figure similar

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

Item no. :  
Consignment no. :  
Project :

### Engineering data

Rated speed (100 K)	6,000 rpm
Number of poles	6
Rated torque (100 K)	0.8 Nm
Rated current	1.3 A
Static torque (60 K)	0.95 Nm
Static torque (100 K)	1.10 Nm
Stall current (60 K)	1.40 A
Stall current (100 K)	1.70 A
Moment of inertia	0.920 kgcm <sup>2</sup>

### Physical constants

Torque constant	0.67 Nm/A
Voltage constant at 20° C	45.0 V/1000*min <sup>-1</sup>
Winding resistance at 20° C	5.05 Ω
Rotating field inductance	17.3 mH
Electrical time constant	3.45 ms
Mechanical time constant	2.20 ms
Thermal time constant	25 min
Shaft torsional stiffness	6,000 Nm/rad
Net weight of the motor	4.6 kg

### Recommended Motor Module

Rated inverter current	3 A
Maximum inverter current	9 A
Maximum torque	4.50 Nm

### Mechanical data

Motor type	Permanent-magnet synchronous motor
Motor type	Compact
Shaft height	36
Cooling	Natural cooling
Radial runout tolerance	0.035 mm
Concentricity tolerance	0.08 mm
Axial runout tolerance	0.08 mm
Vibration severity grade	Grade A
Connector size	1
Degree of protection	IP64
Design acc. to Code I	IM B5 (IM V1, IM V3)
Temperature monitoring	Pt1000 temperature sensor
Electrical connectors	Connectors for signals and power rotatable
Color of the housing	Standard (Anthracite RAL 7016)
Holding brake	without holding brake
Shaft end	Plain shaft
Encoder system	Encoder AS20DQI: absolute encoder single-turn 20 bits

### Gearbox data

Gearbox type	Planetary gearbox NP+
Designation	NP 015
Gearbox shaft end	With feather key
Gear ratio + steps	5 (1-step)
Temporary input speed	8,000 rpm
Motor speed S1	3,700 rpm
Output torque S1	21 Nm
Output moment maximum (short-time)	40 Nm
Moment of inertia of gearbox	0.270 kgcm <sup>2</sup>
Radial output shaft loading, max.	1,700 N
Axial output shaft load, max.	0 N
Efficiency of gearbox	0.97
Torsional backlash	8´
Gearbox weight	1.90 kg

### Limiting data

Max. permissible speed (mech.)	10,000 rpm
Max. permissible speed (inverter)	10,000 rpm
Maximum torque	4.5 Nm
Maximum current	7.0 A

### Special design

V40 — Mounting of NP+ planetary gearbox

# SIEMENS

## Data sheet for SIMOTICS S-1FK7 servo geared motor

Article No. : **1FK7032-2AK71-1QG0-Z**  
V40



Figure similar

# TURLL

YOUR GLOBAL AUTOMATION PARTNER

## 1FK7032-2AK71-1QG0-ZV40

OFFICIAL DATASHEET & QUOTATION

- 100% New & Original Factory Sealed
- Global Express Shipping (DHL/FedEx/UPS)
- 12-Month Warranty Protection
- Professional Technical Support

[CHECK STOCK & PRICE](#)



Need Assistance? Scan to Chat on WhatsApp

[sales@turl.com](mailto:sales@turl.com) | +852 6339 7344