SIEMENS

Data sheet for SIMOTICS S-1FK2

1FK2103-4AG10-1MA0 Article No.:

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

| Basic motor data | | |
|-------------------------|-----------------------------------------------------------------|--|
| Motor type | Permanent-magnet synchronous motor, Natural cooling, IP64 | |
| Motor type | High Dynamic | |
| Static torque | 1.27 Nm | |
| Static current | 2.4 A | |
| Maximum torque | 4.05 Nm | |
| Maximum current | 8.7 A | |
| Maximum speed | 7,300 rpm | |
| Rotor moment of inertia | 0.1580 kgcm² | |
| Weight | 2.0 kg | |

| | Rated data | | | |
|-------------------------|---------------|-----------|--|--|
| SINAMICS S210, 1AC 230V | | | | |
| | Rated speed | 3,000 rpm | | |
| | Rated torque | 1.27 Nm | | |
| | Rated current | 2.4 A | | |
| | Rated power | 0.40 kW | | |

| Encoder system | | |
|----------------|-------------------------------------------------------------|--|
| Encoder system | Encoder AM22DQC: Absolute encoder 22 bit + 12 bit multiturn | |

| Motor connection | | | |
|------------------|--------------|--|--|
| Connection type | OCC for S210 | | |
| Connector size | M12 | | |



Item no. : $Consignment \ no.: \\$

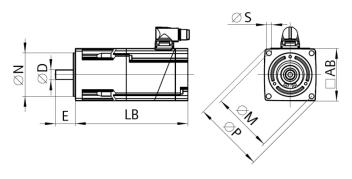
Project :

Shaft end

| Mechanical data | | | |
|-------------------------------|----------------------|--|--|
| Design acc. to Code I | IM B5 (IM V1, IM V3) | | |
| Vibration severity grade | Grade A | | |
| Shaft height | 30 | | |
| Flange size (AB) | 60 mm | | |
| Centering ring (N) | 50 mm | | |
| Hole circle (M) | 70 mm | | |
| Screw-on hole (S) | 5.5 mm | | |
| Overall length (LB) | 155 mm | | |
| Diameter of shaft (D) | 14 mm | | |
| Length of shaft (E) | 30 mm | | |
| Length of flange diagonal (P) | 81 mm | | |

Standard (Anthracite, similar to RAL 7016) Color of the housing

Fitted key



| Holding brake | | |
|------------------------------------------------|----------|--|
| Holding torque | 1.30 Nm | |
| Average dynamic torque | 1.30 Nm | |
| Opening time | 40 ms | |
| Closing time | 30 ms | |
| Maximum single switching energy 1) | 62 J | |
| Service life, operating energy | 17,500 J | |
| Holding current ²⁾ | 0.15 A | |
| Break-induced current for 500 ms ²⁾ | 0.8 A | |

 $^{^{1)}\}mbox{Up}$ to three consecutive emergency stops and up to 25% of all emergency stops as a Wmax high energy stop possible.

 $^{^{2)}} Typcial \ value \ for \ 20^{\circ} C \ ambient \ temperature. At -15^{\circ} C \ the \ break-induced \ currents \ can be increased by up to 30%.$