

## Data sheet for SIMOTICS S-1FL6

MLFB-Ordering data

1FL6044-2AF21-1MB1



Figure similar

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Engineering data		Mechanical data			
Rated speed	3000 rpm	Motor type	Low Inertia		
Rated torque (100 K)	3.18 Nm	Motor type	Permanent-magnet synchronous motor		
Rated current	6.3 A	Shaft height	40		
Rated power	1.00 kW / 1.36 hp	Encoder system	Absolute encoder single-turn 21 bit		
Max. speed	5000 rpm	Cooling	Natural cooling		
Maximum torque	9.54 Nm	Shaft extension	Feather key		
Max. current	18.9 A	Radial runout tolerance	Class N		
Static torque	3.18 Nm	Vibration severity grade	Grade A		
Moment of inertia	1.310 kgcm <sup>2</sup>	Degree of protection	IP65		
<b>Physical constants</b>		Design acc. to Code I	IM B5 (IM V1, IM V3)		
		Torque constant	0.51 Nm/A	Connection type	Cable outlet
		Thermal class	B (130 °C)	<b>Holding brake</b>	
Net weight	4.20 kg	Holding torque $M_{4Br}$	3.18 Nm		
<b>Ambient conditions</b>		Rated voltage	24 V DC $\pm 10\%$		
		Ambient temperature		Opening time	105 ms
Operation	0 ... 40 °C	Closing time	15 ms		
<b>Standards</b>		Rated current	0.35 A		
		Compliance with standards	CE, EAC		