

## Data sheet for SIMOTICS S-1FL6

MLFB-Ordering data

1FL6044-2AF21-1AG1



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	Incremental encoder TTL, 2500 S/R (13 bit)		
Max. speed	5000 rpm	Cooling	Natural cooling		
Maximum torque	9.54 Nm	Shaft end	Plain shaft		
Max. current	18.9 A	Radial runout tolerance	Class N		
Static torque	3.18 Nm	Vibration severity grade	Grade A		
Moment of inertia	1.150 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)		
Net weight	3.40 kg	<b>Ambient conditions</b>			
<b>Ambient conditions</b>		Ambient temperature			
		Operation	0 ... 40 °C		
<b>Relative humidity</b>		Relative humidity			
		Max. operation	90 % RH maximum (no condensation at 30 °C)		
<b>Standards</b>		Compliance with standards			
		CE, EAC			