

## Data sheet for SIMOTICS S-1FL6

MLFB-Ordering data

1FL6042-2AF21-1AA1



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)	2.39 Nm	Motor type	Permanent-magnet synchronous motor		
Rated current	4.7 A	Shaft height	40		
Rated power	0.75 kW / 1.02 hp	Encoder system	Incremental encoder TTL, 2500 S/R (13 bit)		
Max. speed	5000 rpm	Cooling	Natural cooling		
Maximum torque	7.20 Nm	Shaft extension	Feather key		
Max. current	14.2 A	Radial runout tolerance	Class N		
Static torque	2.39 Nm	Vibration severity grade	Grade A		
Moment of inertia	0.897 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	2.80 kg				
<b>Ambient conditions</b>					
<b>Ambient temperature</b>					
Operation	0 ... 40 °C				
<b>Relative humidity</b>					
Max. operation	90 % RH maximum (no condensation at 30 °C)				
<b>Standards</b>					
Compliance with standards	CE, EAC				