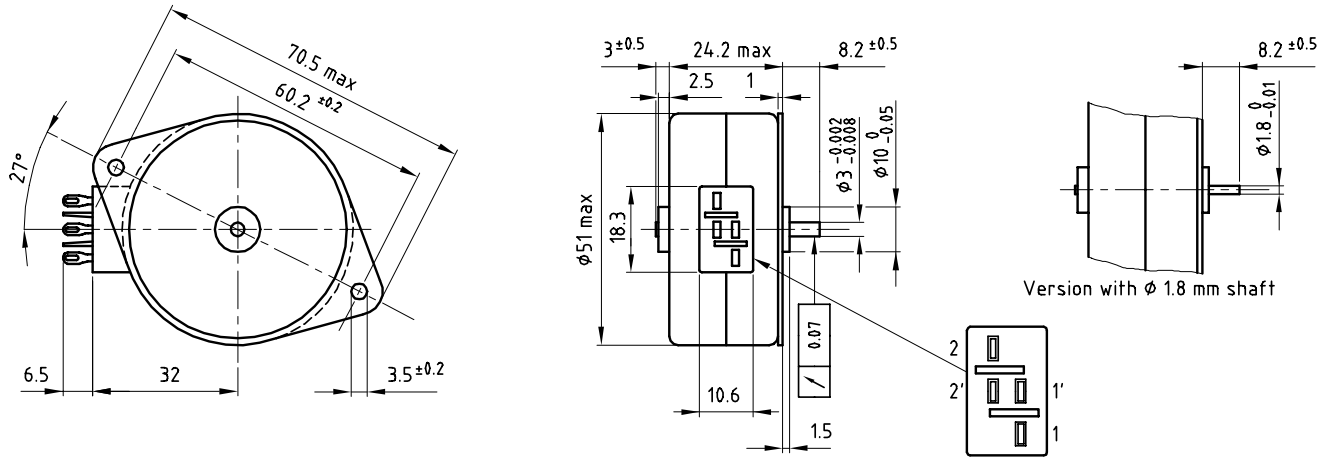


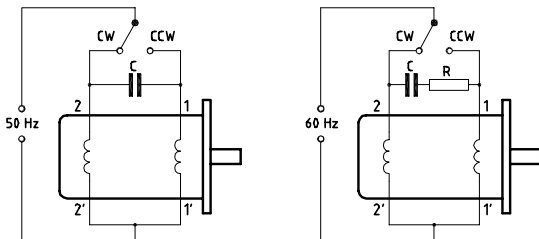
Dimensional drawing



Motor data

Motor order number	shaft $\phi$ 3 mm	9904 111 +	31504	31404	31304	31104
	shaft $\phi$ 1.8 mm	9904 111 +	31514	31414	31314	31114
Nominal Voltage	[V]	24	48	110	220	
Frequency	[Hz]	50	50	50	50	
Speed	[rpm]	250	250	250	250	
Current	[mA]	150	80	30	16	
Input Power	[W]	3.5	3.5	3.5	3.5	
Starting Torque	[mNm]	20	20	20	20	
Working Torque	[mNm]	20	20	20	20	
Torque derating	[%/K]	-0.4	-0.4	-0.4	-0.4	
Temperature rise of the motor	[°C]	60	60	60	60	
Required phasing capacitor C (MKT-type)	Capacity	[uF]	8	2.2	0.39	0.1
	Permissible a.c. voltage	[V]	$\geq 63$	$\geq 100$	$\geq 250$	$\geq 400$
For operating from 60 Hz mains voltage (resulting in a motorspeed of 300 rpm), a resistor must be connected in series with the phasing capacitor; the value of this resistor R		[Ohm]	No resistor required	68 (0.5 W)	560 (0.5 W)	1800 (0.5 W)

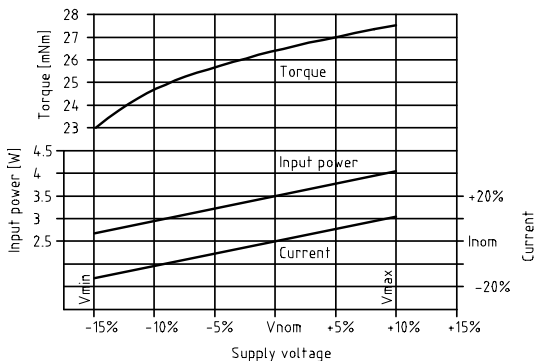
Electrical Connection



General data

x	Permissible voltage fluctuations	-15 to +10	%
x	Type of bearings	sleeve	
x	Maximum radial load	5	N
x	Maximum axial load	1.5	N
x	Ambient temp. range operating	-20/+60	°C
x	Ambient temp. range storage	-40/+100	°C
x	Mass of motor	160	g

Performance curve



Product combinations

- x Gearbox S52A
- x Gearbox S70A
- x Gearbox S70B