

SY31 Synchronous motor

20mNm



Product combinations:

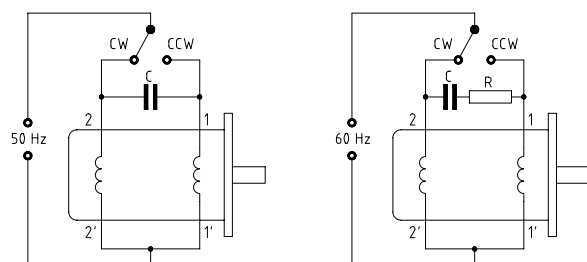
- Gearbox S52A
- Gearbox S70A
- Gearbox S70B



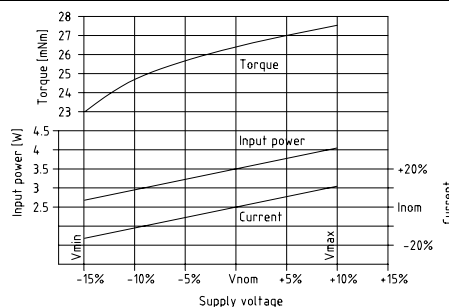
Motor data

Motor order number	Shaft Ø 3 mm	9904 111 31504	9904 111 31404	9904 111 31304	9904 111 31104	
	Shaft Ø 1.8 mm	9904 111 31514	9904 111 31414	9904 111 31314	9904 111 31114	
Nominal voltage		24	48	110	220	V
Frequency		50	50	50	50	Hz
Speed		250	250	250	250	rpm
Current		150	80	30	16	mA
Input power		3.5	3.5	3.5	3.5	W
Starting torque		20	20	20	20	mNm
Working torque		20	20	20	20	mNm
Torque derating		-0.4	-0.4	-0.4	-0.4	%/K
Temperature rise of the motor		60	60	60	60	°C
Required phasing capacitor C (MKT-type)	Capacity	8	2.2	0.39	0.1	µF
	Permissible a.c. voltage	≥63	≥100	≥250	≥400	V
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 resistor R		No Resistor required	68 (0.5W)	560 (0.5W)	1800 (0.5W)	Ω
Permissible voltage fluctuations		-15 to +10				%
Type of bearings		Sleeve				
Maximum radial load		5				N
Maximum axial load		1.5				N
Ambient temperature range operating		-20/ +60				°C
Ambient temperature range storage		-40/ +100				°C
Mass of motor		160				g

Electrical connection



Performance curve



Dimensional Drawing

