



AS10xx | Stepper motors

Motion | AS1000 stepper motors

The AS1000 stepper motors with flange sizes from 42 to 86 mm (NEMA17, NEMA23, NEMA34) and torques from 0.4 to 5 Nm are ideally suited to the simpler tasks mentioned above. They are characterised by robustness and high holding torques. Due to the integrated micro-stepping the motors can position very well even without a feedback system and require only a motion terminal for power electronics. Stepper motors can also be operated with TwinCAT NC PTP for synchronisation functions such as cam plates or flying saws.

I/O | Stepper motor terminals

For stepper motor terminals, I/O components with different performance features are available: Bus Terminal (KL2531, KL2541), EtherCAT Terminal (EL7031, EL7041) and EtherCAT Box (EP7041). The KL2531 and EL7031 stepper motor terminals are exclusively designed for 24 V DC power supplies. The motor current can reach up to 1.5 A. The KL2541 and EL7041 stepper motor terminals cover a supply voltage range from 8 to 50 V DC and additionally require a 24 V supply via the power contacts. The motor current can be set from 1 to 5 A. The EP7041 stepper motor module allows the connection of stepper motors up to 50 V DC and 5 A.

Technical data	AS10xx
Motor type	stepper motor
Insulation system	class B (130 °C)
Design form	AS1010/AS1020: flange-mounted according IM B14, IM V1, IM V3 AS1030/AS1050/AS1060: flange-mounted according IM B5, IM V1, IM V3
Protection class	IP 43, AS1060: IP 20
Cooling	Free ventilation of the motors must be ensured.
Connection method	direct cable outlet via cable gland with connected M12 coupling
Life span	$L_{10h} = 30,000$ hrs for ball bearings
Approvals	CE

Options	AS10xx
Feather key groove	according to DIN 6885 P1 (only for AS1060)
Feedback system option	incremental encoder 200 inc/rev or 1,024 inc/rev (for AS1020, AS1050, AS1060)