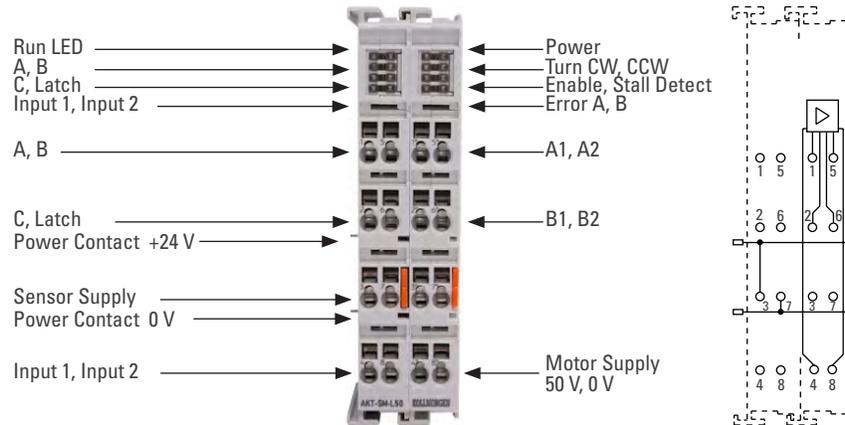


## Stepper Module, 50 V DC, 5 A

The Bus Terminal is intended for stepper motors with medium performance range. The PWM output stages cover a wide range of voltages and currents. Together with two inputs for limit switches, they are located in the Bus Terminal. The stepper motor terminal can be adjusted to the motor and the application by changing just a few parameters. 64-fold micro stepping ensures particularly quiet and precise motor operation. Together with a stepper motor, the AKT-SM-L50 represents an inexpensive small servo axis.



Electrical and Mechanical Specification	AKT-SM-L50-000
Number of outputs	1 Stepper Motor, 2 phases
Number of inputs	2 limit position, 4 for an encoder system
Supply voltage	8...50 V DC
Output current	2 x 3.5 A, 2 x 5 A peak current
Maximum step frequency	125,000 steps/s
Step pattern	Full step, half step, up to 64-fold micro stepping
Current controller frequency	Approx. 25 kHz
Diagnostics LED	Error phase A and B, loss of step/stagnation, power, enable
Resolution	Approx. 5,000 positions in typ. applications (per revolution)
Power supply	Via the standard-bus
Electrical isolation	500 V <sub>rms</sub> (standard-bus / signal voltage)
Current consumption standard-bus	Typ. 100 mA
Encoder signal	5...24 V, 5 mA single-ended
Pulse frequency	Max. 400,000 increments/s (with 4-fold evaluation)
Bit width in the process image	Input/output: 2 x 16 bit data + 1 x 8 bit control/status
Weight	Approx. 100 g
Operating/storage temperature	0 ... +55 °C / -25 ... +85 °C
Relative humidity	95 %, no condensation
Vibration/shock resistance	Conforms to EN 60068-2-6 / EN 60068-2-27/ 29
EMC immunity/emission	Conforms to EN 61000-6-2 / EN 61000-6-4
Protect. class/installation pos.	IP 20 / variable
Pluggable wiring	For all Bus Terminals

203 A West Rock Road • Radford, VA 24141 USA • Phone: 1-540-633-3545

KOLLMORGEN | [www.kollmorgen.com](http://www.kollmorgen.com)