

Compact microstep power driver SMC61

SMC61

Technical data:

- Operating voltage:** DC 24 V to 80 or 130 V
- Max. phase current:** 5 or 10 A / phase (depending on ambient temperature a heat sink may be required)
- Current adjustment:** via BCD switches 0-F
- Operating mode:** Bipolar chopper driver
- Operating mode:** Full step, half step, quarter step, one fifth step, eighth step
- Step frequency:** 0 to 150 kHz
- Current reduction:** automatic to 60%
- Inputs:** Optocoupler 5 V (24 V)
- LED:** Current reduction, zero position, power, overtemperature, overvoltage, overcurrent, short circuit
- Connection type:** Pluggable screw terminals (motor), D-Sub (signal)
- Attachment method:** Wall mounted
- Weight:** 490 g



Attention: The supply voltage **must** have a charging capacitor with at least 6800 µF must be provided at the supply voltage (see accessories) so that the permitted voltage is not exceeded during the braking procedure.

Input wiring

The current values in the table show the geometric total $I_{\text{motor}} = \sqrt{(I_a^2 + I_b^2)}$ of the two phase currents I_a and I_b .

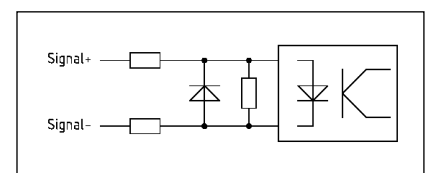
Position	SMC61-1	SMC61-2
0	1,25	2,50
1	1,50	3,00
2	1,75	3,50
3	2,00	4,00
4	2,25	4,50
5	2,50	5,00
6	2,75	5,50
7	3,00	6,00
8	3,25	6,50
9	3,50	7,00
A	3,75	7,50
B	4,00	8,00
C	4,25	8,50
D	4,50	9,00
E	4,75	9,50
F	5,00	10,00

Step switchover

Step resolution (steps/revolution)

- Full step 1/1
- Half step 1/2
- Quarter step 1/4
- Eighth step 1/8
- Fifth step 1/5
- 1/2.5 step

Input wiring



Ordering designation: SMC61-□ - □

- Version:
- 1 = 80 V, 5 A
 - 2 = 130 V, 10 A
 - 3 = 80 V, 10 A

Input wiring:

- 5 = 5 V
- 24 = 24 V

Accessories: optional heat sink SMC61-KK

