

SMC139 – Stepper Motor driver 8,2A 3...8,2A / phase, 24...75 VDC

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Description:

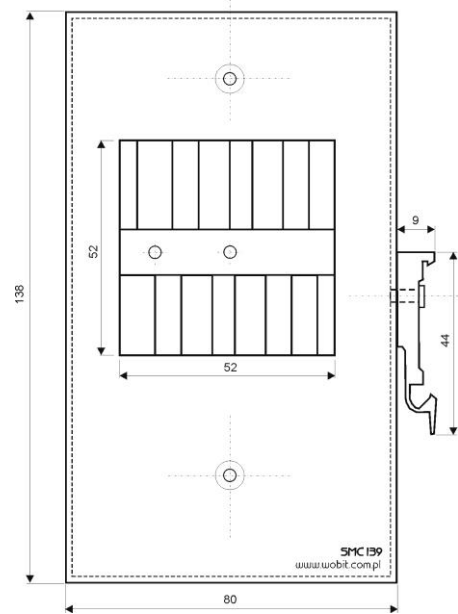
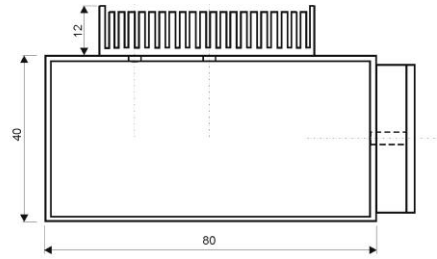
SMC139 is a driver designed for driving 2-phase stepper motors with bipolar winding (8- or 4- coil) or unipolar 6- coil used as bipolar. It allows to control current up to 8.2 A and step division up to 1/16.

High supply voltage and high phase current enable dynamical control of even large stepper motors with torque over 20Nm.

Applying Enable signal (current about 5-7mA – max 20mA - must flow by optocoupler) on EN input allows motor current flowing. Control of rotation direction is made by DIR input. Max. pulses frequency given on CLK input is 50kHz.

Activation of current reduction function cause motor current reduction to 50%, while interval between next CLK signals is longer than 0,5 sec.

Activated filtration allows to eliminate noises (pulses shorter than 0,5µs) on CLK input.



Driver dimensions

Sterownik SMC139

prąd podział

filtr redukcja

1 2 3 4 5 6 7 8

redukcja wyłączona
redukcja włączona
filtr wyłączony
filtr włączony

prąd podział

8.2A	1
7A	1/2
6.5A	1/4
5.5A	1/8
4.5A	1/5
4.2A	1/10
3.8A	1/10
3.0A	1/10

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Current	I1	I2	I3
8,2	ON	ON	ON
7,0	OFF	ON	ON
6,5	ON	OFF	OFF
5,5	OFF	OFF	ON
4,5	ON	ON	OFF
4,2	OFF	ON	OFF
3,8	ON	OFF	OFF
3,0	OFF	OFF	OFF

Micro step resolution	S1	S2	S3
1	ON	ON	ON
1/2	ON	ON	OFF
1/4	ON	OFF	ON
1/8	ON	OFF	OFF
1/16	OFF	ON	ON
2/5	OFF	ON	OFF
1/5	OFF	OFF	ON
1/10	OFF	OFF	OFF

R = ON – current reduction ON
F = ON –CLK signal filtration ON

Technical parameters	
Power supply	voltage 24...75 VDC
Motor current	3...8,2A / phase
Step division	1...1/16
Control inputs CLK,DIR,EN	Low state 0V (max. 1V), High state 5V (current min 5..7mA, max. 20mA)
CLK signal	F. max. 50kHz
Cooling	Metal housing + cooler
Operating temperature	0..50°C
Mounting	Handle for DIN rail
Housing	Height: 52 mm Width: 80 mm Length: 138 mm
Weight	500g

