

# Stepper Motors

Single phase, 24 steps per revolution  
PREClstep® Technology

For combination with:  
Drive Electronics: AMAR 138

## Series ASP 124-xx-06

	xx =	022	102	380	
Number of steps per revolution <sup>1)</sup>		24	24	24	
Step angle		15	15	15	degrees
Nominal voltage <sup>2)</sup>		1,3	2,7	4,5	V DC
Voltage range		1,0 to 1,6	2,1 to 3,3	3,5 to 5,1	V DC
Pulse width		7,81	7,81	7,81	ms
Coil resistance		22	102	380	Ω
Average current consumption		160	70	30	μA/step/s
Torque at nominal voltage (20°C)		75	200		μNm
Detent torque					μNm
Ambient temperature range		-40 ... +85			°C
Max. load inertia		30			·10 <sup>-9</sup> kgm <sup>2</sup>
Direction of rotation <sup>3)</sup>		CW			
Axial play		200			μm
Max. radial play		22			μm
Weight		13			g

<sup>1)</sup> Driven by successive pulses of constant polarity

<sup>2)</sup> Positive pole on red wire

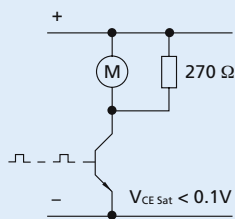
<sup>3)</sup> Viewing the motor from the shaft or pinion end. Motors are delivered, on request, either CW (clockwise) or CCW (counter clockwise).

Jewel bearings are standard

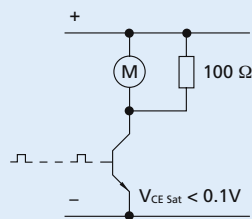
### Driver Schematic

The driver can be built using the schemes below depending on the motor supply voltage rating. Pulse length is identical for each motor.

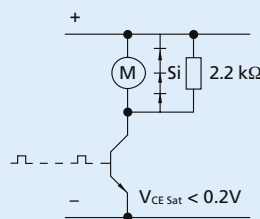
For rapid evaluation, the Drive Electronic AMAR138 is available for each voltage.



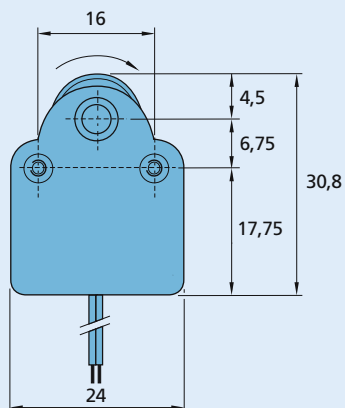
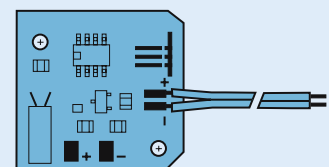
ASP 124-022-06



ASP 124-102-06



ASP 124-380-06



ASP 124-xx-06

