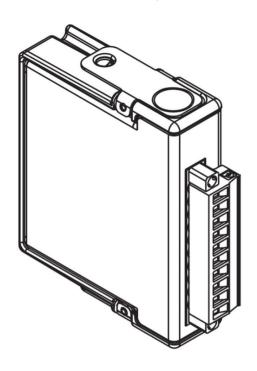
CCM 2282/2283

Stepper motor driver and analyser



Specifications

Compatibility	Unipolar and bipolar stepper motors
	For use with NI cRIO controller
Drive modes	Voltage control
	0-30V unipolar mode10-30V bipolar mode
	Current control (resolution 1mA)
	0-0,4A unipolar mode
	0-3A RMS bipolar mode
Step rate	0-1000 pps

Operating modes

- Wave drive (one-phase-on at a time)
- Full step (two-phases-on at a time)
- Half step
- Half step with current boost
- Micro stepping (up to 1/16 step)



Mea	surem	ents
(only	CCM	2283)

Resistance Range: $0-800\Omega$ Accuracy: $\pm 0.2\Omega$

Coil voltage +30V / -30V at 1.500 s/sec measurement 4 channel simultaneous sampling

resolution 1mV

Coil current +4,3A / -4,3A (3A RMS) at 1.500 s/sec measurement 4 channel simultaneous sampling

resolution 1mA

Wiring

Pin	Bipolar stepper motor	Unipolar stepper motor
0	A+	А
1	A-	В
2	Not used	Common supply
3	B+	С
4	B-	D
5	Not used	Common supply
6	Not used (optional 12V- 24V supply for control circuit)	12V-24V supply
7	GND	GND
8	Motor supply (10-30V)	Motor supply (0-30V)
9	GND	GND

Operational safety and compliance

Absolute maximum ratings	Input 36V – higher input voltage will cause damage to the module
Operating conditions	0°C≤Ta≤40°C
	IP 40
	Use a shielded cable to connect motor
	Follow general electronic safety precautions
Other remarks	Measuring and Testing Equipment for laboratory use
	Dispose as hazardous waste
	Specifications are subject to change

