

DCM4826 IDEA® Stepper Motor Drive



Pulse & Direction Communication

Can control both rotary stepper motors and stepper motor based linear actuator systems using a simple pulse, direction, and enable signal from a stepper motor control board. Input voltage to the drive is 12-48 VDC.

Provides a load current of 2.6A rms per phase. PDE signals are optically isolated from the rest of the drive, providing the ability to reference a separate electrical ground.

- RS485 communication protocol
- Compact size: 2.36" x 2.52" x 1.35" (60mm x 64mm x 34.4mm)

Simple to use software IDEA® Drive Software

With on-screen buttons and easy to understand programming guides. The software program generates motion profiles directly into the system and also contains a "debug" utility allowing line-by-line execution of a motion program for easy troubleshooting.



Specifications

Drive Input Voltage Range	12 to 48 VDC
Max Drive Current / Phase	2.6 A rms
Step Modes	Full, Half, 1/4, 1/8, 1/16, 1/32, 1/64
Communication	RS485
Digital Inputs Voltage Range	0 to 24 VDC
Digital Input Maximum Current	35 mA (each)
Digital Input Minimum Pulse Width	5 µs
Maximum Pulse Input Frequency (0-5 V Square Wave)	100 KHz
Maximum Temperature	70°C (Measured at heat sink)

Dimensional Drawing

I/O Connector TABLE "A"

PIN #	DESCRIPTION
1	OPTO GROUND
2	ENABLE
3	DIRECTION
4	PULSE
5	GROUND
6	+5 TO 24 VDC

Communication Connector TABLE "B"

PIN #	DESCRIPTION
1	Y / NON-INVERTING DRIVER OUTPUT
2	Z / INVERTING DRIVER OUTPUT
3	GROUND
4	GROUND
5	A / NON-INVERTING RECEIVER INPUT
6	B / INVERTING RECEIVER INPUT

