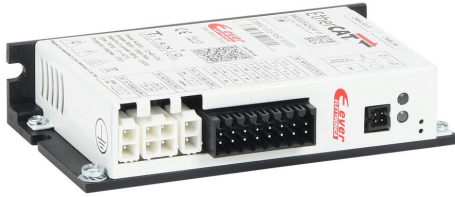# SW3D2042H241-01 Cut Sheet

Ever Motion Solutions DC open loop microstepping stepper drive, 4.2A per phase, 2-phase output, 12-48 VDC, bipolar, velocity and position mode, 200 to 65536 steps per revolution, EtherCAT.

For complete product information, please see this item on our store at the following link:

https://www.automationdirect.com/pn/SW3D2042H241-01

Technical Specifications

Brand	Ever Motion Solutions
Item	Stepper drive
Stepper Drive Type	Open loop
Controller Type	Microstepping
Voltage Type	DC
Amperage Rating	4.2A per phase
Number of Output Phases	2
Nominal Input Voltage	12-48 VDC
Winding Type Control	Bipolar
Output Type	MOSFET, dual H-bridge and bipolar chopper output
Current Control	4-state PWM at 40 kHz
Steps per Revolution	200 to 65536
Communication Port and Connection Type(s)	• (2) Ethernet 100Base-TX (RJ45) • (1) 4-pin terminal
Port Protocol(s)	• EtherCAT Slave • Ever Service protocol
Port Speed(s)	up to 19.2k baud
Temperature Rating	5 to 40 deg C
Enclosure Type	Enclosed
IP Rating	IP20
Mounting	Panel
Control Mode	Velocity and position

Command Signal(s)	EtherCAT CoE (DS402)
Stall Detection	Yes
Number of Discrete Input Points	4
Discrete Input Type	Sinking/sourcing/line driver (differential)
Number of Discrete Output Points	2
Discrete Output Type	Sourcing
Tuning Mode	On-line auto/off-line auto/manual
Idle Current Reduction	Yes
Drive Features	Sinusoidal current control (quiet operation), anti-resonance (electronic damping), auto-tuning and errorless servo efficient (ELSE)
Protection Type(s)	• overvoltage • undervoltage • short circuit • overcurrent • motor phase wiring error • motor overload • over-temperature
Configuration	EtherCAT master or optional configuration software
Additional Information	Optional EVER-PGM-1 programming cable available for software configuration

Agency Approvals

EU REACH	View EU REACH document

Dimensional Drawings

2D Drawing PDF Link:
https://cdn.automationdirect.com/static/drawings/2d/SW3D2042H241-01.pdf
See store item page for other formats.