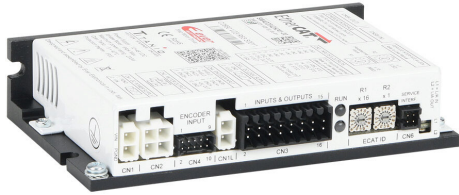


# SW4D2042H241-00 Cut Sheet



Ever Motion Solutions DC open/closed loop microstepping stepper drive, 4.2A per phase, 2-phase output, 12-48 VDC, bipolar, torque, 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/SW4D2042H241-00>

## Technical Specifications

|                                           |                                                                                                               |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Brand                                     | Ever Motion Solutions                                                                                         |
| Item                                      | Stepper drive                                                                                                 |
| Stepper Drive Type                        | Open/closed 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) | <ul style="list-style-type: none"><li>• (2) Ethernet 100Base-TX (RJ45)</li><li>• (1) 4-pin terminal</li></ul> |
| Port Protocol(s)                          | <ul style="list-style-type: none"><li>• EtherCAT Slave</li><li>• Ever Service protocol</li></ul>              |
| 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                              | Torque, 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)               | <ul style="list-style-type: none"><li>• overvoltage</li><li>• undervoltage</li><li>• short circuit</li><li>• overcurrent</li><li>• motor phase wiring error</li><li>• motor overload</li><li>• over-temperature</li></ul> |
| Configuration                    | EtherCAT master or optional configuration software                                                                                                                                                                        |
| Additional Information           | Optional EVER-PGM-1 programming cable available for software configuration                                                                                                                                                |

## Agency Approvals

|          |                                        |
|----------|----------------------------------------|
| EU REACH | <a href="#">View EU REACH document</a> |
|----------|----------------------------------------|

## Dimensional Drawings



2D Drawing PDF Link:  
<https://cdn.automationdirect.com/static/drawings/2d/SW4D2042H241-00.pdf>  
See store item page for other formats.