

## Specifications

### POWER SUPPLY

24 Vdc (NEMA17) and 36 Vdc (NEMA23)

### RATED TORQUE

up to 0.25 Nm (NEMA17) and up to 0.44 Nm (NEMA23) at 4000 rpm

### MOTOR POWER

up to 104 W (NEMA17) and up to 184 W (NEMA23)

### SAFETY PROTECTIONS

Over current, overheating, short circuit between motor phase to phase and phase to ground

### FEEDBACK CONTROL

Hall sensor (velocity) or incremental magnetic encoder and absolute single-turn encoder (position)

### CONTROL INTERFACE

Modbus or CANbus (not isolated)

### SERVICE INTERFACE

SCI Service Serial for configuration, programming and real time debugging

### INPUTS and OUTPUTS

3 digital inputs not isolated  
2 digital outputs not isolated  
1 analog input (potentiometer or 0-10Vcc) not isolated

### CLASS PROTECTION

IP20

### TEMPERATURES

Operating temperatures from 5°C to 40°C, storage temperatures from -25°C a 55°C  
Humidity: 5%÷85% not condensed

## BLDC motors with integrated fieldbus drives

**Platino**  
BLDC - SERVO - DRIVES



# DM4

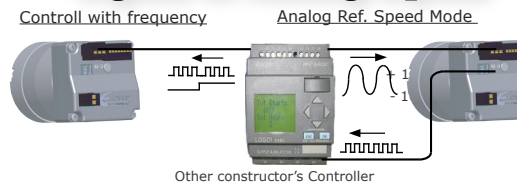
## Integrated Servomotors

- Analog input for speed control
- Absolute single-turn encoder
- CANbus Canopen fieldbus with DS402 functionalities integrated or Modbus RTU Serial
- SCI Serial Service for configuration, programming and real time debugging
- e3PLC IDE for a fast, easy and intuitive programming

**Ever**  
**ELETRONICA**  
the clever drive

**ELETRONICA PER AUTOMAZIONE INDUSTRIALE**  
Via del Commercio, 2/4 -9/11  
Loc. S. Grato - Z.I.  
26900 - LODI (LO) - Italy  
Tel. 0039 0371 412318 - Fax 0039 0371 412367  
email infoever@everelettronica.it  
www.everelettronica.it

## Digital or Analog Inputs



## Fieldbus Systems

CANopen Slave - d0380



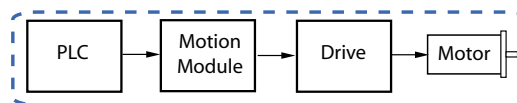
Drives control through commands by Master Controller. Suitable for multi axes systems (up to 127 drives). Built in powerful Motion Module functionalities, assures perfect synchronization among axes and reduces Master Controller workload.

## Stand-Alone Systems

Programmable by the user - e3PLC- d0390 / d0490

e3PLC integrates PLC, Motion Module, Process Module and drive in just one device. e3PLC Studio PC Interface is available for a user-friendly, fast and easy programming of the machine or for process device customization.

Traditional Solution



e3PLC Solution



e3PLC IDE allows the user to access all the functions and resources of the device, and to locally program its Motion Module, which can also be synchronized with other drives and events of the controlled process.

Thanks to the advanced functionalities of the Power Motion Module, an integrated Real-time Process Module, applications can be easily created for special application such as:

- Handling
- Food industry
- Textile industry
- Automatic tickets gate
- Barriers and gates and many other user-customized processes...

## Configuration or programming

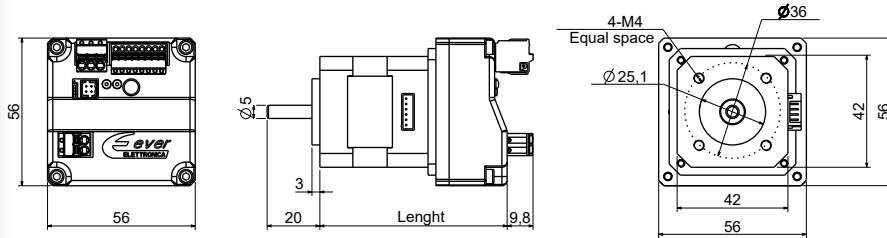
Fast configuration with Ever e3PLC Studio for Windows PC, which allows the complete configuration of the device and a real time debug.



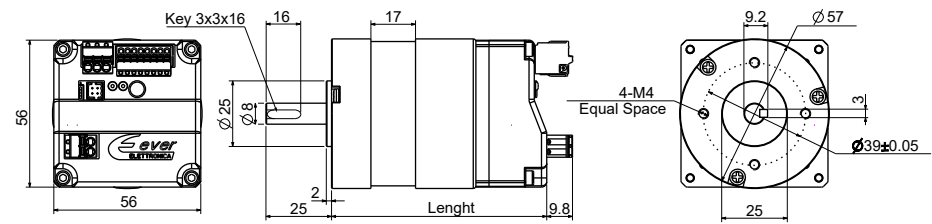
Ever Elettronica's IDE e3PLC Studio, for Windows PC, means a fast and easy way to program, configure and supervise each system.

## Mechanical Data, Motor and Position sensor's characteristics

### NEMA17



### NEMA23



| Models          | Rated Torque | Peak Torque | Velocity | Power | Type of sensor  | Length |
|-----------------|--------------|-------------|----------|-------|---|--------|
| DM4D1026_2R1BS0 | 0.06 Nm      | 0.19 Nm     | 4000 rpm | 26 W  | Hall  | 71 mm  |
| DM4D1026_2R1GM0 |              |             |          |       | Incremental magnetic encoder and absolute single-turn |        |
| DM4D1052_2R1CS0 | 0.13 Nm      | 0.38 Nm     |          | 52 W  | Hall  | 91 mm  |
| DM4D1052_2R1HM0 |              |             |          |       | Incremental magnetic encoder and absolute single-turn |        |
| DM4D1078_2R1DS0 | 0.19 Nm      | 0.56 Nm     |          | 78 W  | Hall  | 111 mm |
| DM4D1078_2R1IM0 |              |             |          |       | Incremental magnetic encoder and absolute single-turn |        |
| DM4D1104_2R1ES0 | 0.25 Nm      | 0.75 Nm     |          | 104 W | Hall  | 130 mm |
| DM4D1104_2R1LM0 |              |             |          |       | Incremental magnetic encoder and absolute single-turn |        |

| Models          | Rated Torque | Peak Torque | Velocity | Power | Type of sensor  | Length |
|-----------------|--------------|-------------|----------|-------|---|--------|
| DM4D1046_2R5BS0 | 0.11 Nm      | 0.39 Nm     | 4000 rpm | 46 W  | Hall  | 82 mm  |
| DM4D1046_2R5GM0 |              |             |          |       | Incremental magnetic encoder and absolute single-turn |        |
| DM4D1092_2R5CS0 | 0.22 Nm      | 0.63 Nm     |          | 92 W  | Hall  | 102 mm |
| DM4D1092_2R5HM0 |              |             |          |       | Incremental magnetic encoder and absolute single-turn |        |
| DM4D1134_2R5DS0 | 0.32 Nm      | 0.61 Nm     |          | 134 W | Hall  | 122 mm |
| DM4D1134_2R5IM0 |              |             |          |       | Incremental magnetic encoder and absolute single-turn |        |
| DM4D1184_2R5ES0 | 0.44 Nm      | 0.63 Nm     |          | 184 W | Hall  | 142 mm |
| DM4D1184_2R5LM0 |              |             |          |       | Incremental magnetic encoder and absolute single-turn |        |

## Integrated Drives Data

| Models         |                      | Power        | System resources  |  |                |                 |               |                                    |
|----------------|----------------------|--------------|-------------------|--|----------------|-----------------|---------------|------------------------------------|
| Versions       | Config. (*cf. table) | Power Supply | Fieldbus          | SCI Serial Service                                     | Digital Inputs | Digital Outputs | Analog Inputs | Service Kit                        |
| DM4D1__C2R1__0 | d0380                | 24 Vdc       | CANbus<br>Canopen | for configuration, programming and real time debugging | 3              | 2               | 1             | DM4D1_SERV00-SL<br>DM4D1_SERV00-EE |
| DM4D1__C2R5__0 | d0390                | 36 Vdc       |                   |  |                |                 |               |                                    |
| DM4D1__M2R1__0 | d0490                | 24 Vdc       | Modbus RTU Serial |  |                |                 |               |                                    |
| DM4D1__M2R5__0 | d0490                | 36 Vdc       |                   |  |                |                 |               |                                    |

## Configuration and Control Modes

| Config. | Control  |
|---------|--|
| d0380   | CanOpen Fieldbus (CiA DS402 profile)   |
| d0390   | Stand-Alone and programmable with e3PLC Studio IDE CanOpen                           |
| d0490   | Fieldbus Modbus RTU or Stand-Alone and programmable with e3PLC Studio IDE Modbus RTU |