

Specifications

MODELS

Code	Power	Flange	Speed	Rated torque	Peak torque	Brake
DM5D2200x262Dw0	200 W	60 mm square	3000 rpm	0.64 Nm	1.92 Nm	No
DM5D2200x262DwF	200 W	60 mm square	3000 rpm	0.64 Nm	1.92 Nm	Yes
DM5D2400x262Ew0	400 W	60 mm square	3000 rpm	1.27 Nm	3.81 Nm	No
DM5D2400x262EwF	400 W	60 mm square	3000 rpm	1.27 Nm	3.81 Nm	Yes

POWER SUPPLY

- 12÷48 Vdc - 16 A max for power stage
- 12÷24 Vdc - 500 mA max for logic stage (optional and not isolated)

COMMUNICATION INTERFACES (x)

Modbus RTU (x=M) or CANbus or Industrial-Ethernet communication interface for the following fieldbus:

- (x=R) PowerLink preloaded
- (x=H) EtherCAT preloaded
- (x=T) ProfiNet preloaded
- (x=E) Modbus TCP/IP preloaded
- (x=I) Ethernet/IP preloaded

DIGITAL INPUTS AND OUTPUTS

4 digital inputs not isolated, 2 digital outputs not isolated

ANALOG INPUTS

2 analog inputs not isolated (potentiometer or $\pm 10V_{cc}$)

FEEDBACK (w)

integrated incremental magnetic 2500 ppr encoder or integrated multiturn absolute BiSS-C encoder

BRAKE

integrated 24 Vdc - 7.2 W - 1.5 Nm type 'active when not powered'

SERVICE INTERFACE

Service serial interface for programming and real-time debugging

SAFETY PROTECTIONS

over/under-voltage, over current, over temperature, open windings, closed windings phase/phase phase/ground

PROTECTION CLASS

IP65

OVERVOLTAGE CATEGORY

not directly connected to the main electrical supply

TEMPERATURES

working: 5°C ÷ 40°C; storage -25°C ÷ 55°C

HUMIDITY

5% ÷ 85% not condensing

Integrated BLDC Servo with Motion Control

LITIO
INTEGRATED BLDC SERVO DRIVES



DM5D DC Servo Brushless Motor

- Integrated motion control
- Provided with on-board safety features:
 - ✓ STO Safety Torque Off inputs
- Servomotor characteristics:
 - ✓ Multiprotocol fieldbus system: PowerLink, EtherCAT, Profinet, Modbus TCP/IP and Ethernet/IP
 - ✓ Feedback: BiSS-C multi-turn absolute encoder or incremental magnetic encoder
 - ✓ Integrated brake (optional)
 - ✓ Service serial interface for real-time programming and debugging
 - ✓ IP65 protection



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Configuration Software

Ever Motion Solutions proprietary PC Software Tools for easy and quick configuration or programming, real time debug and supervision of each system

Autonomous management of the firmware for the execution of the **homing**, of the target movement with relative or absolute quota and for the generation of the ramp profiles

Torque mode for operation with torque limitation

Speed control thanks to digital inputs, analogue inputs or fieldbus

Electronic CAM with advanced programming of internal profiles inside the drive

Electric shaft with encoder or analogue input with variable tracking ratio (Electric Gear)

Fast inputs and outputs for motor' start & stop and event synchronization for high speed response applications such as labeling, nick finder, flying saw etc.

Possibility to synchronize the movements in multi-axis systems, even without fieldbus

Enabling and on-the-fly changing of the motion control modes

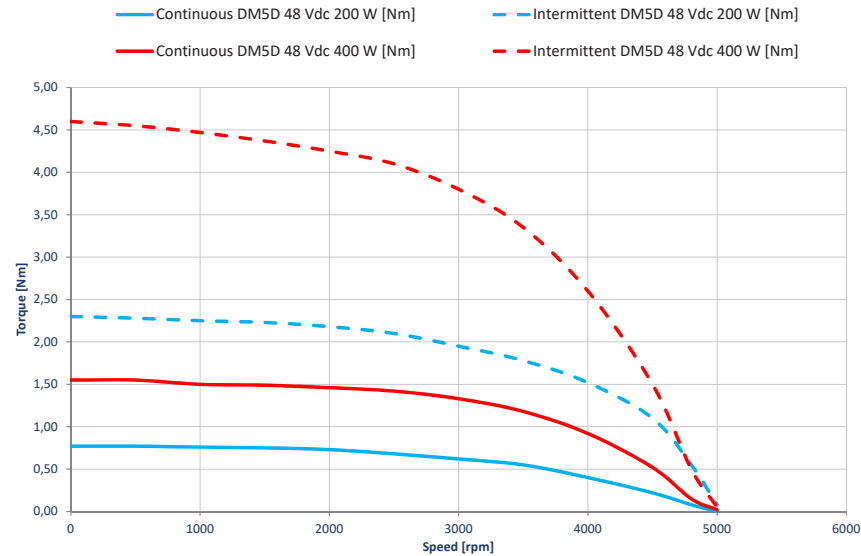
Fieldbus configuration (slave) d0x80



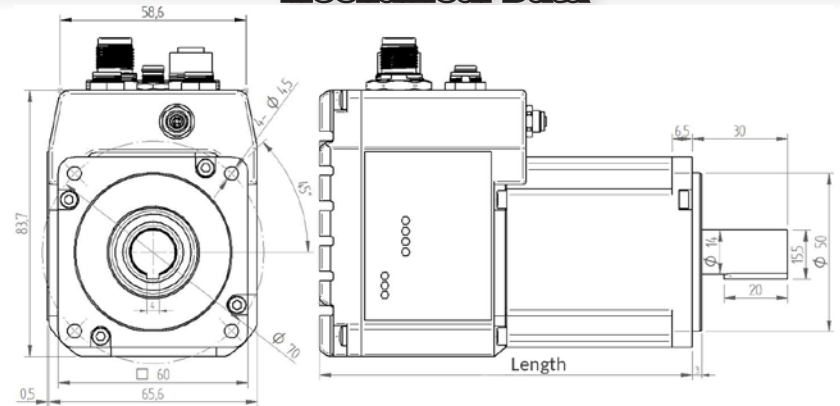
IDE e3PLC configuration (programmabile) d0x90



Torque Diagram



Mechanical Data



Models	Dimensions (mm) Motor Length	Weight (Kg. about)	Brake
DM5D2200x262Dw0	124	1.3	No
DM5D2200x262DwF	160	1.4	Yes
DM5D2400x262Ew0	150	1.5	No
DM5D2400x262EwF	186	1.6	Yes

Ordering information for DM5D Integrated BLDC Servomotors and Options

Ordering code			Power				System Resources					
Versions	Config.	Connector Kit	Power Supply		Current	Integrated Motor Specification	Interface (X)	Digital Inputs	Digital Output	Analog Inputs	Feedback	Brake
DM5D2200x262D90	d0x80 d0x90	DM5D2KIT-C1M (for CANbus or Modbus models)	12 ÷ 48 Vdc	12 ÷ 24 Vdc (optional and not isolated)	16.0 A max	Motor flange: 60 mm Poles number: 10 Power: 200 W Rated torque: 0.64 Nm Peak torque: 1.92 Nm Rated speed: 3000 rpm Phase resistance: 0.44 ohm Phase inductance: 0.65 mH Rated current: 6.0 A/ph	X= C CANbus (Canopen DS402)	4	2	2	Incremental magnetic 2500 ppr encoder	No
DM5D2200x262D9F						X= M RS485 (Modbus-RTU)	Multiturn absolute BiSS-C encoder				Yes	
DM5D2200x262DB0						X= H EtherCAT	Multiturn absolute BiSS-C encoder				No	
DM5D2200x262DBF						X= E Modbus TCP/IP	Multiturn absolute BiSS-C encoder				Yes	
DM5D2400x262E90		DM5D2KIT-H1M (for Industrial EtherNet interface models)				X= T Profinet	Incremental magnetic 2500 ppr encoder				No	
DM5D2400x262E9F						X= R PowerLink	Multiturn absolute BiSS-C encoder				Yes	
DM5D2400x262EB0						X= I EtherNet IP	Multiturn absolute BiSS-C encoder				No	
DM5D2400x262EBF											Yes	

Software Kit

Config.	Available Configurations	Control Mode	Software Kit Code	Software Kit Description
d0x80	- d0380 = Canopen (DS402) - d0480 = Modbus - d0680 = EtherCAT - d0981 = Profidrive - d0A80 = PowerLink	Fieldbus mode	SERV00-M5	Software Kit for drive programming with Ever Motion Solutions e3PLC Studio + 200 cm service serial cable and the serial/USB converter
d0x90	- d0390 = Canopen (DS402) - d0490 = Modbus - d0690 = EtherCAT - d0890 = Modbus TCP /IP - d0990 = Profinet - d0A90 = PowerLink - d0B90 = Ethernet IP	e3PLC Studio programmable mode		