

Integrated DC Servomotors MTR-DCI

FESTO



Compact, Intelligent, Easy to Use

A Complete Servomotor Solution

The MTR-DCI is an innovative servomotor for positioning tasks with integrated gearbox, power electronics, and controller.

Simple Connections

Significantly less wiring is needed due to the integrated controller – only one voltage supply and one fieldbus or multi-pin connection are required to operate the MTR-DCI. Instead of the three-component motor with gear unit, controller and power electronics, only one component has to be considered from a design point of view.

Compact

No need for control cabinet and air conditioning for electronics means a more compact design.

Reliable

The integrated power electronics and controller in the MTR-DCI eliminate the need for motor cables and improve electromagnetic compatibility. This reduced cabling also minimizes wiring errors and simplifies troubleshooting.

Uncomplicated Operation

The complete commissioning process can be performed using simple teach-in functions. The optional LCD display provides an easy-to-navigate, clear, menu-driven operation.

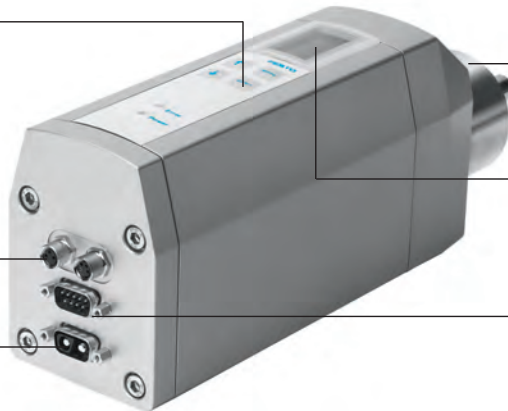
Integrated DC Servomotors MTR-DCI

Operator Interfaces

- Operator buttons (HMI)
 - Menu selection
 - Edit target position
 - Teach-in positions
 - Manual movement
 - Status LED

- Limit switch input (M8)
- RS232 parameterization interface

- Power supply 24/48 V DC



Options

- Gear unit ratio
 - 7:1
 - 14:1
 - 22:1
- Integrated display (HMI)
 - Resolution 128 x 64
 - Variable character sizes
 - Diagnostic information
 - Text 90° rotatable
- Operator interface
 - I/O or
 - fieldbus (in preparation)

Features

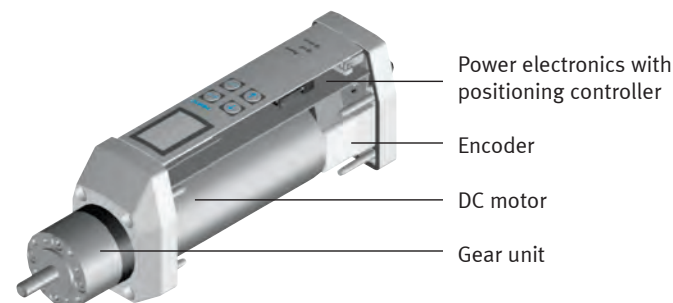
- Compact design with integrated gear unit and positioning controller
- Closed loop operation
- Activation via I/O or fieldbus
- IP54

Positioning Functionality

- 16 traversing records (including homing)
- Constant acceleration and deceleration
- Homing mode:
 - with sensor
 - against a mechanical stop (preferred)
- Position control

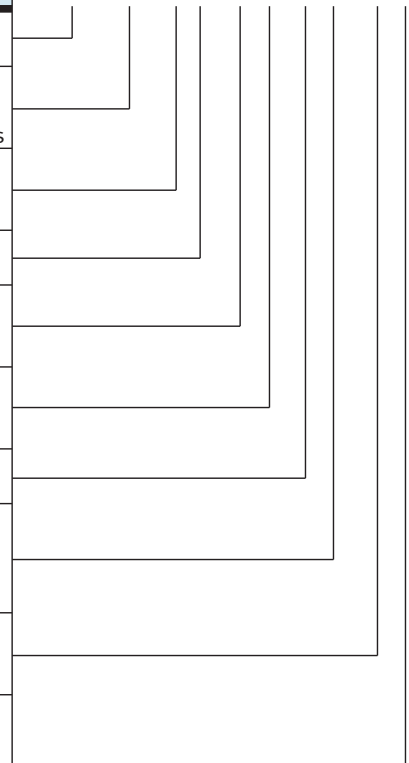
Technical Data

Type	Flange Dimensions [mm]	Gear Unit Ratio [i]	Torque [Nm]	Speed [rpm]
MTR-DCI-32	32	6.75	0.17	481
MTR-DCI-32	32	13.73	0.33	237
MTR-DCI-42	42	6.75	0.6	444
MTR-DCI-42	42	13.73	1.21	218
MTR-DCI-52	52	6.75	1.6	444
MTR-DCI-52	52	13.73	3.3	218
MTR-DCI-62	62	6.75	4.3	502
MTR-DCI-62	62	13.73	8.2	247
MTR-DCI-62	62	22.20	12.3	156



Type Codes	
Design	MTR Motor
Motor Type	DCI DC motor with integrated electronics
Flange Dimensions	32, 42, 52, 62
Torque Class	S Small
Nominal Voltage	VC 24 V DC VD 48 V DC
Plug Technology	SC Plug outlet straight
Displacement Encoder	E Encoder
Gear Unit	G7 Single-stage (i=7) G14 Two-stage (i=14) G22 Two-stage (i=22)
Parameterization Interface	R2 RS232 H2 HMI & RS232
Electrical Connection	IO I/O connection CO With CAN Open PB With Profibus DP DN With DeviceNet

MTR - DCI - 42 S - VC SC - E G7 - H2 IO



Festo Corporation

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