

Electrical actuators MTR-DCI

FESTO



The MTR-DCI – compact, more economical and more intelligent.

An innovative drive motor for positioning tasks with integrated power electronics and controller.



Compact

Without the need for a control cabinet and air conditioning for electronics means a more compact design.

Simple

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

Reliable

The integrated power electronics and controller in the MTR-DCI avoids motor cables and improves electromagnetic compatibility. Optimised reliability and system availability and no need for the inconvenience of troubleshooting.

Uncomplicated

The complete commissioning process can be performed using simple teach-in functions. No need for operating instructions thanks to the optional LCD display and clear menu-driven operation. All parameters are permanently under control.



Optional teach-in function,

compact,

intelligent.

141.2.PSI →

Product Short Information

Electrical actuators MTR-DCI

Operator interfaces

Operator buttons [HMI]

- Menu selection
- Edit target position
- Teach-in positions
- Manual movement
- Status LED

- RS232 parameterisation interface

- Limit switch input (M8)

- 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
- Smooth profile prevents the ingress of dirt
- Closed loop operation
- Activation via I/O or fieldbus* (in preparation)
- IP54

Positioning functionality

- 16 traversing records (including homing)
- Constant acceleration and braking
- Homing mode:
 - Left or right until the switching signal
 - Left or right until the mechanical stop (preferred)
- Position control

Technical data

Type	Flange dimensions [mm]	Gear unit ratio [i]	Torque [Nm]	Speed [1/min]
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)

Parameterisation interface

R2 RS232
H2 HMI & RS232

Electrical connection

IO I/O connection
CO With CAN Open*
PB With Profibus DP*
DN With DeviceNet*

* In preparation

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



Power electronics with positioning controller

Encoder

DC motor

Gear unit

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