This version provides a safety position in case of power loss.

**Module System for Electric Actuators**

**Technical Data**
- **Nominal Torque:** 100 Nm bis 4000 Nm
- **Protection Class:** IP67
- **Duty Cycle:** up to Class C (max. 1200 c/n) acc. to prEN 15714-2
- **Limit Switches:** max. 250V AC, 3A
- **Current Feedback:** 4-20mA, max. 250V AC 5A
- **Switch Box Heater:** Versorgung 230V AC permanent, 5W
- **Potentiometer:** 1000 Ω
- **Current Feedback:** 4-20mA, max. 250V AC 5A

**General Applications**
- Integrated torque control
- Digital control input
- Integrated AC/DC control voltage supply
- Digital feedback signal
- Switch bus heater
- Prepared for further options
- Actuator mounting and optional modules as modular system
- Interlocking, possibly unplugged zero-vane ensures a safe positioning of the actuating element
- Top flange acc. to EN ISO 5211
- Replacement shaft length ensures the adoption of different valves
- The optional position indicator shows the exact position of the actuating element

**Order Codes**

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>M71-00-001-40</td>
<td>50 Nm for E65</td>
</tr>
<tr>
<td>M71-00-002-40</td>
<td>100 Nm for E110</td>
</tr>
<tr>
<td>M71-00-003-40</td>
<td>150 Nm for E160</td>
</tr>
<tr>
<td>M71-00-004-40</td>
<td>200 Nm for E210</td>
</tr>
</tbody>
</table>

**Actuators with Fail-Safe Position Open/Closed**

- **Supply Voltage:** von 110V AC/1~ bis 480V AC/3~
- **Main Board Three Phase AC**
- **Main Board AC**

**Positioner** Additional limit switches Current feedback Current feedback + Positioner

**Made by EBRO**
**DIMENSIONS**

**MODULE SYSTEM**

**ACTUATOR CONFIGURATION COMPLETE EQUIPMENT**

**SUGGESTED WIRING**

Single-phase actuator with integrated direction control, positioner, local control, additional limit switches and current feedback 4-20mA

Three-phase actuator with integrated direction control, positioner, local control, additional limit switches and current feedback 4-20mA

**MADE BY EBRO**
DIMENSIONS MODULE SYSTEM

ACTUATOR CONFIGURATION COMPLETE EQUIPMENT

SUGGESTED WIRING

Single-phase actuator with integrated direction control, positioner, local control, additional limit switches and current feedback 4-20mA

Three-phase actuator with integrated direction control, positioner, local control, additional limit switches and current feedback 4-20mA

Suggested wiring diagram for E65DS up to E210DS with M71-DS-XXX-40

Suggested wiring diagram for E65WS up to E160WS with M71-WS-XXX-40 for digital control
This version provides a safety position in case of power loss.

**Positioner**
- Additional limit switches
- Current feedback
- Current feedback + Positioner

**Body (lower part)**

**Body (lower part) with local control**

**Module System for Electric Actuators**

**General Applications**
- Integrated torque control
- Digital control input
- Integrated 24V DC control voltage supply
- 5 digital feedback signal
- Switch bus heater
- Prepared for further options
- Actuator mounting and optional modules as modular system
- Base motor, separately encapsulated worm gear ensures a safe positioning of the actuating element
- Top flange acc. to EN ISO 5211
- Replacement of shaft bush enables the adoption of different values
- The optional position indicator shows the exact position of the actuating element

**Technical Data**
- Nominal torque:
  - E 65: 100 Nm to 400 Nm
  - E 110: 100 Nm to 400 Nm
  - E 160: 100 Nm to 400 Nm
  - E 210: 100 Nm to 400 Nm
- Protection class: IP67
- Duty Cycle:
  - up to Class C (max. 1200 c/n acc. to prEN 15714-1)
  - max. 1200 c/n acc. to prEN 15714-1
- Limit switches:
  - max. 250V AC, 3A
- Torque control:
  - Potentialfree Wechsler, max. 250V AC 5A
- Current feedback:
  - 4-20mA, max. 30V DC
- Switchbox heater:
  - 230V AC permanent, 5W
- Potentiometer:
  - 1000 Ω
- Insulation class:
  - F
- Corrosion Protection Class:
  - C4 acc. to prEN 15714-2, tested acc. to EN 60068-2-52
- Cable entries:
  - 4 x M20 x 1.5
  - Ø-min = 6 mm
  - Ø-max = 13 mm
- Operation temperature:
  - -20°C to +70°C
- Hand wheel:
  - 15 revolutions 90°
  - Hand wheel torque:
    - 4 Nm for E 65
    - 20 Nm for E 110
    - 35 Nm for E 160
    - 50 Nm for E 210
- Supply Voltage:
  - 110V AC/1~ bis 480V AC/3~

**Order Codes**

**Module System**

**Order Code**
- Standard
  - Main Board
  - Digital feedback
  - Additional limit switches
  - Current feedback
  - Local control
  - Positioner
- Options
  - Three Phase Current
  - Direct Current
  - Additional power charge unit for battery pack

**Actuators with fail-safe position OPEN/CLOSE**

**Order Code**
- Standard
  - Direct Current
  - Digital feedback
  - Additional limit switches
  - Current feedback
  - Local control
  - Positioner
  - Without additional power charge unit for battery pack
  - With additional power charge unit for battery pack
MODULAR MOUNTING

This version provides a safety position in case of power loss.

E 65  E 110  E 160  E 210

Body (upper part)  Body (lower part)  Body (lower part) with local control

Positioner  Additional limit switches  Current feedback  Current feedback + Positioner

Main board three phase AC  Main board AC

Module System for Electric Actuators

Technical Data
- Nominal torque: 150Nm bis 4800 Nm
- Protection class: IP67
- Duty Cycle: up to Class C (max. 1200 c/n) acc. to prEN 15714-2
- Limit switches: max. 250V AC, 3A
- Switch box heater: Versorgung 230V AC, max. 5W
- Limit switches max. 250V AC, 3A

General Applications
- Integrated torque control
- Digital control input
- Integrated 24V DC control voltage supply
- 4-20mA, Versorgung max. 30V DC

Order Codes
- Actuator mounting and optional modules as modular system
- Self-locking, separately capsuled worm gear ensures a safe positioning of the actuating element
- Top flange acc. to EN ISO 5211
- Replaceable shaft notch enables the adaptation of different valves
- The optical position indicator shows the exact position of the actuating element

General Applications
- Integrated torque control
- Digital control input
- Integrated 24V DC control voltage supply
- 4-20mA, Versorgung max. 30V DC
- Switch box heater
- Prepared for further options
- Actuator mounting and optional modules as modular system
- Self-locking, separately capsuled worm gear ensures a safe positioning of the actuating element
- Top flange acc. to EN ISO 5211
- Replacement shaft notch enables the adaptation of different valves
- The optional position indicator shows the exact position of the actuating element

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Order Codes
- Actuator mounting and optional modules as modular system
- Self-locking, separately capsuled worm gear ensures a safe positioning of the actuating element
- Top flange acc. to EN ISO 5211
- Replaceable shaft notch enables the adaptation of different valves
- The optical position indicator shows the exact position of the actuating element

Module System 4.5 4.0