



Advantages/Benefits

- ▶ 100 Nm nominal torque
- ▶ Open/closed
- ▶ Flange interface ISO 5211
- ▶ IP 65 rating
- ▶ Corrosion resistant
- ▶ Available with manual override
- ▶ Optical position indicator

Design/Function

The rotary actuator is a compact and powerful actuator system, which provides a long service life.

Materials and components have been chosen for maintenance-free operation even in aggressive environments and ensure low thermal loading on the actuator.

The modular design offers many options such as extra limit switches, potentiometers, 4-20mA position control to be added to the basic unit.

Applications


The electric actuators operate control devices, such as:

- Ball valves
- Butterfly valves
- Disc valves
- Ventilators
- Mixer valves, e.g. in chemical industry, water treatment industry, or dosing and bottling systems.



Technical Data	
Specifications	
Rotation angle	90°
Drive torque	nominal torque 100 Nm (higher torques admissible for a short period of time)
Gear unit	rotation time 14 s rotation angle 90°
Drive	female square
Flange interface	ISO 5211 parts 1 and 2
Ambient temperature	-20 °C to +50 °C
with additional function	-10 °C to +50 °C
Weight	approx. 4 kg (depending on version)
Additional function	automatic fail-safe in case of power failure with torque limitation
Body material	polycarbonate

Torque Limitation

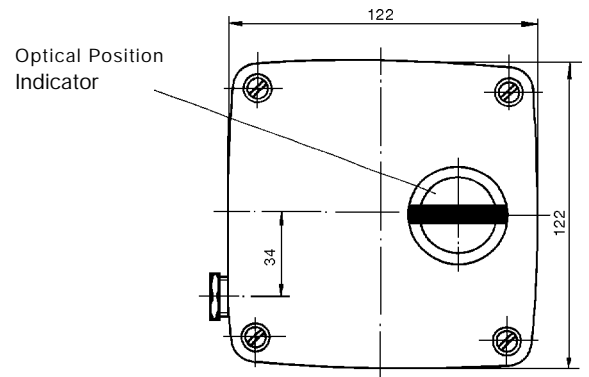
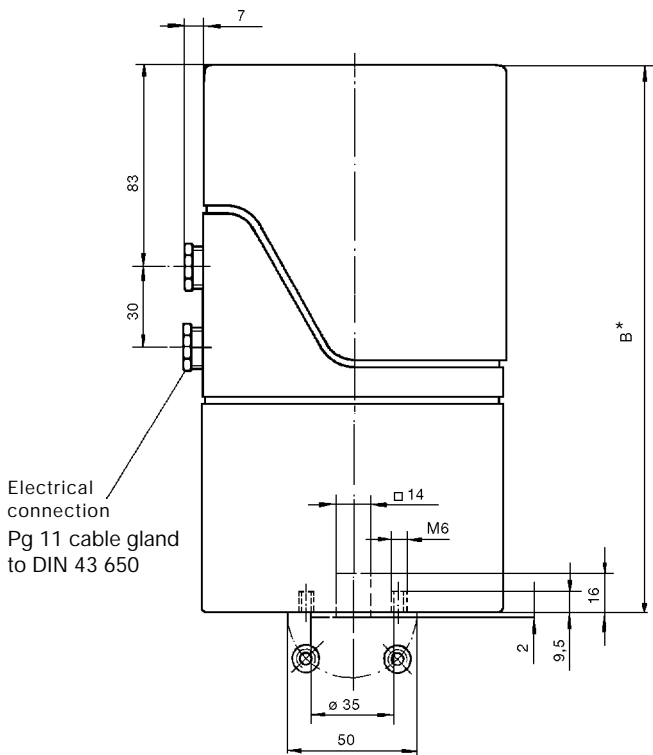
Drive torque	The drive torque is independently adjustable from 0 up to the max. value for both rotation directions via individual potentiometers. P1, P2:  Scale position 0 to 10 = 0 to 100 Nm
Electrical feedback signal	Rfeedback "torque limitation initiated" via terminal 26 with $U = U_{nom}$ and $I_{max.} = 0.1 A$.
Torque control	As long as the "open" or "closed" signal is applied, the applied torque is checked every 8 s after initial activation of the torque limit control circuit. If the torque has dropped it is reset to the pre-selected value by short-time energizing of the motor. Thus, a pre-selected contact pressure for the seal of a butterfly valve can be accurately.

Electrical Data							
Operating voltages	24 V/=						
Voltage tolerance	±10 %						
Power consumption (hold)	AC 55 W* DC 20 W*						
*at nominal voltage and nominal torque with additional function	40 W						
Duty cycle	AC 50% intermittent operation UC, DC 100% continuously rated						
With additional function	100 % continuously rated						
Electrical connection	• 1 or 2 cable plugs for 6-7 mm ø cable, • PG 11 cable gland to DIN 46 320						
Rating	IP 65						
Limit switch	single-pole switch, max. 250 V/10 A						
Versions							
2-position operation:	<table border="1"> <thead> <tr> <th>Version</th> <th>A</th> <th>B</th> </tr> </thead> <tbody> <tr> <td>Limit switch</td> <td>2</td> <td>4</td> </tr> </tbody> </table>	Version	A	B	Limit switch	2	4
Version	A	B					
Limit switch	2	4					

Automatic Fail-Safe on Power Failure

Safety positions	"closed" in case of power failure "open" in case of power failure The safety positions are pre-selectable via a slide switch. The device is delivered in the pre-selected safety position "open in case of power failure".
Max. rotation time (at max. torque)	40 s
NC-Accu-capacity	reset without recharging: > 3
NC-Accu-recharging time	max. 10 h, after total discharge

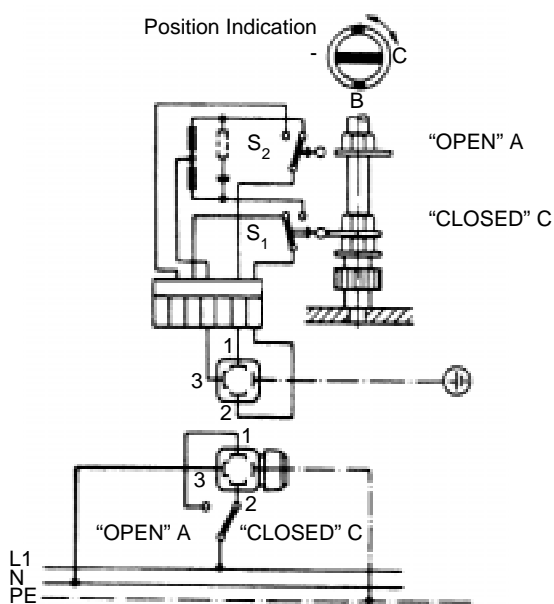
Dimensions in mm



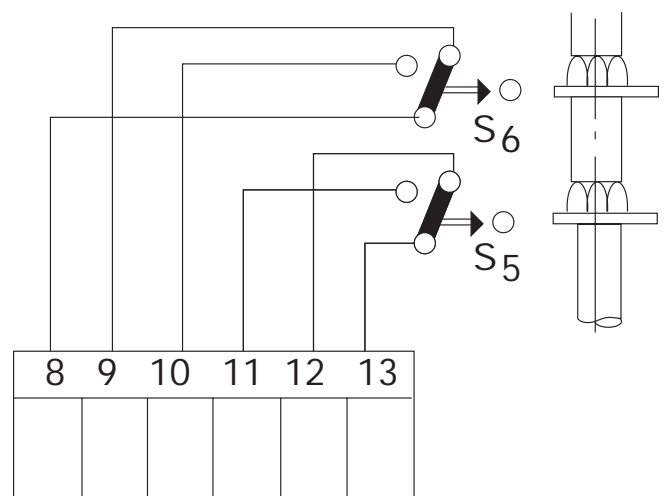
* Dimension B
basic unit: 168 mm
fail-safe with torque limitation: 218 mm

Basic Version

Symbol of Version A

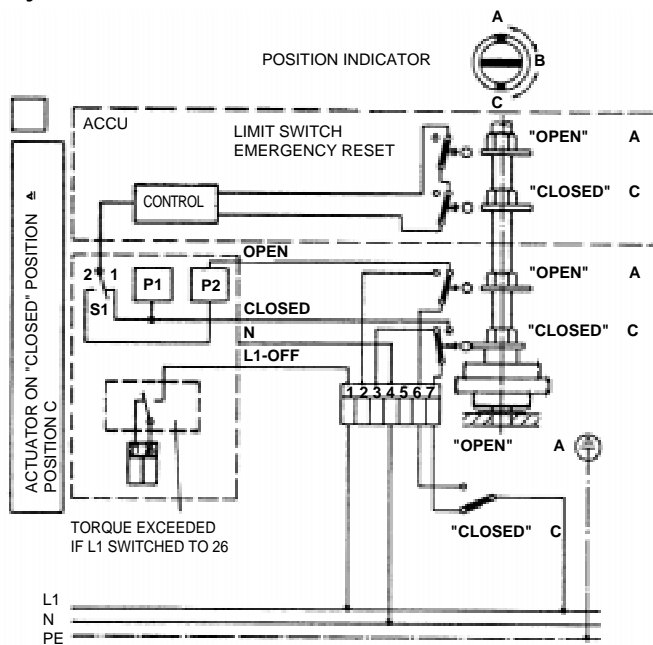


With 2 Additional Limit Switches (Version B)

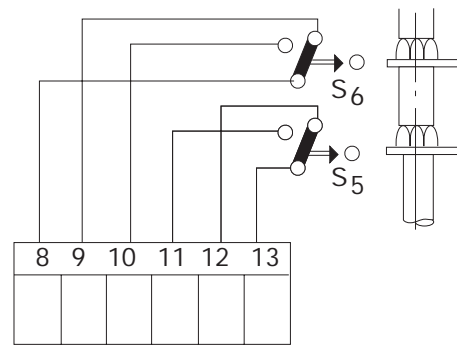


Torque Limitation, Automatic Fail-Safe on Power Failure

Symbol of Version A



With 2 Additional Limit Switches (Version B)



Ordering Chart (Other Versions on Request)

Number of Limit Switches	Version	Electrical Connection	Voltage / Frequency [V/Hz]	Order-No.
2	A	cable plug	024/=	000 295 A
2		Pg11	230/50	000 249 T
2		cable plug	230/50	000 208 T
2		Pg11	230/50	006 298 F ¹⁾
2		cable plug	110/60	000 371 M
4	B	Pg11	024/=	000 339 M
4		Pg11	230/50	006 300M
4		2 cable plugs	230/50	000 596 Y
4		Pg11	230/50	006 292 Z ¹⁾

¹⁾ With additional function: fail-safe with torque limitation