

Bälz-electrodyn - control valves and control actuators

20.7 Actuator baelz 373-E88

Text for quotations + orders:

**Linear motorized actuator
baelz 373-E88-100-22-S41**

for mounting on control valves from ND 65 - 125
for on-off- control (baelz 346-22)
with hand operation
with switch off depending on torque and
2 limit switches; for each final position 1 breaker and 1 maker
with thermo-contact (motor protection)

thrust : 10 kN
actuator speed Ty : 22 mm/min.
3-phase current : 400 V, 50 Hz; 0.025 kW
protection class : IP 67

heating in switch compartment
ambient conditions : -25...+60°C, 0-75% r.F.
including actuator spindle, coupling and steel-yoke S41
weight approx. 25.0 kg

**Linear motorized actuator
baelz 373-E88-300-96-S41**

as above baelz 373-E88-100-22, but
for mounting to control valves
for on-off- control; for strokes up to 66 mm
thrust : 30 kN

actuator speed Ty : 96 mm/min.
3-phase current : 400 V, 50 Hz; 0.37 kW
including actuator spindle, coupling, steel-yoke and fastening screws.
for BB series ND 150 up.

weight approx. 34.5 kg

baelz 373-E88-300-96-S41C

for valves with cooling tube, BBK and BBK-SS series
weight approx. 39.0 kg

Extra charges:

4 add. single switches for intermediate setting
with 4 independent from each other adjustable switching cams
(2 for on/off final position / 2 any adjustable for intermediate setting)

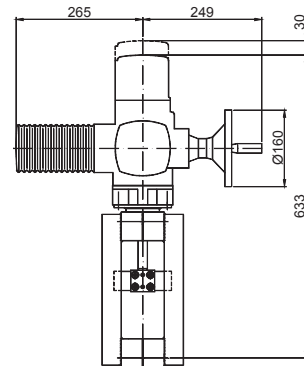
potentiometer 200 Ω, 1 kΩ or 5 kΩ

output signal : 4 - 20 mA internal position feedback
input signal : 4 - 20 mA

programmable control logic:
switch off way in a final position ON/OFF;
way-depending/ torque-depending
remote-control TIPP-operation/self-latching action
location-control TIPP-operation/self-latching action
power supply unit : 24 V control voltage
power pack : turn contactor max. 1.5 kW
selector switch : location-off-remote, lockable in each position
and : bush button ON-STOP-OFF
electical connection : plug 1 Pg13.5/ 2 Pg21
protection class : IP 67, EN 60529
relay for report on disturbances programmable reaction at signal failure
STOP/ON/OFF.

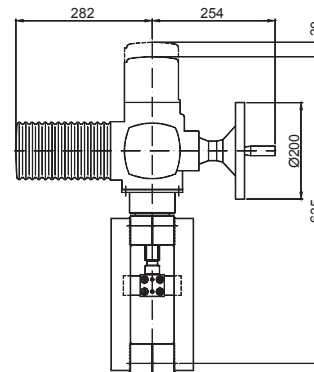


Fig. 190
373-E88-300-96-1.JPG



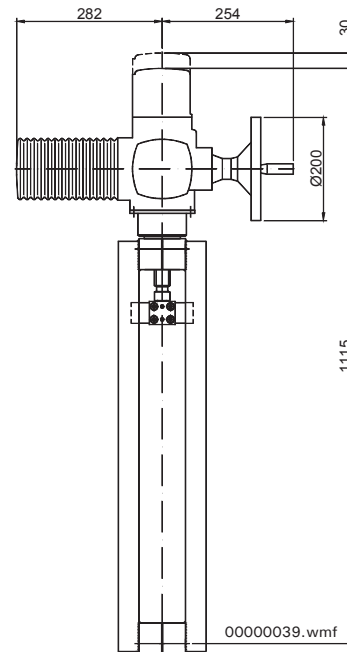
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Fig. 191
actuator baelz 373-E88-100-22-S41



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Fig. 192
actuator baelz 373-E88-300-96-S41



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Fig. 193
actuator baelz 373-E88-300-96-S41-C

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Text for quotations + orders:

Linear motorized actuator with fail safe function

baelz 373-E88-ALS75

for mounting to control valves

The fail safe function enables the actuator to close (fail-close) or open (fail-open) a valve instantly in case of an emergency situation.

A fail safe operation is either initiated by loss of the power supply or by a command from the control room.

A spring in the fail-safe unit of the actuator serves as the energy source.

stroke : 100 mm
thrust : 7500 N
actuator speed Ty (adjustable) : 50 - 400 mm/min.

Motor

Type of duty according to VDE 0530 / IEC34 : Short-time duty S2 – 15 min.
 Insulation class : F
 Current value 1-ph AC 220 – 240 V; 50/60 Hz : max. 1,5A
 Electrical input power : about 160 W
 Protection class : IP 67
 Weight together with electronic control : appr. 20 kg
 Ambient temperature : -10°C...+70°C



Fig. 194
373-E88-ALS75-1.JPG

Actuator controls

The controls can be mounted directly to the actuator or separately from the actuator on a wall bracket

Voltage supply : 220 – 240 50/60 Hz or 110 - 120V AC; 50/60 Hz
 Motor controls : Power electronics with integral motor controller
 Binary inputs (galvanic isolation: opti-isolators): OPEN-STOP-CLOSE-EMERGENCY
 Analogue input : Nominal operating time or speed E3 = 0/4-20 mA
 Relay outputs : Collective fault signal 5 programmable output relays (change-over contacts,max. 30 V DC/1 A)
 Analogue output (option) : Position feedback signal (position actual value)
 E2 OUT = 0/4 - 20 mA (galvanically isolated)
 4 electronic intermediate positions : Each intermediate position can be a position (requires potentiometer) between 0 and 100 %.
 Signal: Continuous contact NO/NC, impulse
 Torque by-pass : Adjustable within range of 0.2 to 5seconds.
 During this time the torque monitoring is not active.
 Logging of operating data : Hours / minutes of operation. Number of:
 starts, power failures, torque faults in direction OPEN and CLOSE.
 Display elements : LC Display, 4 lines with 20 characters each
 Diagnose LEDs : Display and programming board: 8 LEDs (end positions, actuator signals) Interface board: 3 LEDs (internal run commands, faults)
 Setting/ programming : Via menu and the push-buttons of the locals controls/ push-buttons on the display/programming board Programming interface RS232.
 Local controls : Selector switch LOCAL-OFF-REMOTE
 Push-buttons OPEN-STOP-CLOSE Indication lights for end position OPEN, FAULT, end position CLOSED.