

Questionnaire

80/68-1.01

Selection Assistance for Electrical Actuators (Contract) and Associated Electronic Units

For Continuous Positioning

Besides the manual criteria selection for the actuator determination this document also offers the online use with an online criteria selection.

Click with the mouse cursor onto a control box to select a feature.

In case only one of the options can be selected, a plausibility check is carried out in the online mode or the user gets a short note.

Enter plain text into the text field where the determination requires text information.

Always use the command „Save as“ to save the document. Using simply the „Save“ command causes an increase of the required memory with each saving procedure.

Delete possible text entries or pre-selected boxes using the appropriate button on this page (only visible in online mode).

Project:

Tag No. in facility:

Remarks:

Date

Sender:



Criteria for the Actuator Selection

Select max. one option per feature group.

Motion

part-turn
linear

Torque range for part-turn actuators

rated torque ≤ 100 Nm
rated torque > 100 Nm ≤ 250 Nm
rated torque > 250 Nm ≤ 500 Nm
rated torque > 500 Nm ≤ 800 Nm
rated torque > 800 Nm ≤ 1250 Nm
rated torque > 1250 Nm ≤ 2500 Nm
rated torque > 2500 Nm ≤ 4000 Nm
rated torque > 4000 Nm ≤ 8000 Nm
rated torque > 8000 Nm ≤ 16000 Nm
rated torque > 16000 Nm
oper. angle °
positioning time sec/90°

Mech. interface (part-turn actuators)

shaft
lever (incl. weld. bushings, ball-and-socket-joints)
direct adapter (e. g. for cock operation)

Force range for linear actuators

rated force ≤ 4 kN
rated force > 4 kN ≤ 10 kN
rated force > 10 kN ≤ 20 kN
rated force > 20 kN ≤ 50 kN
rated force > 50 kN ≤ 100 kN
rated force > 100 kN ≤ 200 kN
rated force > 200 kN
stroke mm
positioning speed mm/sec

Electrical connection:

plug; comp (crimp connection)
plug; comp (terminals)
plug socket with cover

Ambient temperature:

-10° C ... +65° C
-30° C ... +50° C
-10° C ... +55° C (for integr. electr. unit)
-25° C ... +55° C (for integr. electr. unit)
-1° C ... +85° C (not available for all actuators)

Thread for cable gland:

metric
NPT
PG

Anti condensation heater:

yes
no

Tag on data label:

yes
no

Protection cover for plug:

with
without

Plug holder:

without
with

Factory certificate:

without
with

Final examination certificate:

without
with

Assembly with valve at ABB:

yes (valve)
no

Manual:

German Qty.
English Qty.

Criteria for Electronic Unit Selection

Associated electronic unit

Integrated
(only for 4 kN rat. force / 100 Nm rat. torque)
For field installation (IP 66)
For rack installation (IP 20) (no Profibus DP)

Voltage supply:

AC 230 V 1~
AC 115 V 1~

Mains frequency:

50 Hz
60 Hz

Signal interface to DCS:

20 mA / digital
20 mA / digital + HART
Profibus DP (not for electronic for rack inst.)

Electr. connection to the actuator:

without cable (requires compl. plug at actuator)
plug + 5 m cable (not for rack installation)
plug + 10 m cable (not for rack installation)
plug + 20 m cable (not for rack installation)

Thread for cable gland:

metric (not for rack installation)
NPT (not for rack installation)
PG (not for rack installation)

Configuration of electronic unit:

standard
customer specific (data sheet 68/10-2.40)
(remark):

Anti condensation heater (actuator):

Off
On

Tag No. on data label:

yes
no

Factory certificate:

without
with

Final examination certificate:

without
with

Manual:

German Quty.
English Quty.

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