The Valve Drive Actuator VAA/A 6.24.1 can be used for the control of 24 V thermoelectric valve drives, e.g. TSA/K 24.1.

It is used in residential buildings and in purpose-built buildings. In conjunction with valve drives, the VAA/A optimises the effect of the use of thermostats (room temperature controllers).

It is suitable for the installation in heating circuit distribution systems where the application of triacs ensures silent switching.

### Technical data

#### Supply
- **Mains voltage**: 230 V AC (+10/-15 %), 50…60 Hz
- **Maximum power consumption**: 50 W
- **No-load power consumption**: 3 W
- **Leakage loss**: 18 W

#### Outputs
- **Number**: 6
- **Type**: Triac
- **Output voltage**: 24 V AC (+/-20%), 50…60 Hz
- **Output current per channel**: Maximum 1 A
- **Fuse**: T2A, common for all outputs

#### Maximum number of connectable electrothermal valve actuators
- **Number**: 13
- **Per channel**: 4

#### Connections
- **KNX Valve actuator (6) connection**: Bus connection terminal
- **Plug-in terminal**: 1.0…1.5 mm² stranded, 0.5…1.5 mm² solid

#### Operating and display elements
- **LED green**: Power on indicator
- **LED red**: Fuse defective indicator
- **LED red (6)**: Channel on indicator
- **KNX programming LED**: Programming mode indicator
- **KNX programming button**: Assignment of the physical address

#### Release function
- **After switch on**: 10 minutes

#### Valve protection program
- **In Summer mode**: Once a day for 6 minutes

#### Emergency program
- **With bus voltage failure**: 8 minutes on and 40 minutes off

#### Enclosure
- **IP 20** to DIN EN 60529
- **Safety class**: II to DIN EN 61140
- **Isolation category**: Overvoltage category III to DIN EN 60664-1
- **Pollution degree**: 2 to DIN EN 60664-1
- **Temperature range**
  - **Operation**: -5 °C…+50 °C
  - **Storage**: -25 °C…+60 °C

#### Ambient conditions
- **Maximum air humidity**: 75 %

#### Design
- **Surface mounted device**
- **Wall-mounted or on mounting rail**
- **Dimensions**: 70 x 75 x 302 mm (H x B x L)

#### Mounting position
- as required

#### Weight
- 1.700 kg

#### Housing, colour
- Plastic housing, grey

#### Approvals
- **KNX to EN 50 090-1, -2**
- **CE mark**: in accordance with the EMC guideline and low voltage guideline
### ABB i-bus® KNX
Valve Drive Actuator
VAA/A 6.24.1, 2CDG 120 032 R0011

<table>
<thead>
<tr>
<th>Device type</th>
<th>Application program</th>
<th>Maximum number of communication objects</th>
<th>Maximum number of group addresses</th>
<th>Maximum number of associations</th>
</tr>
</thead>
<tbody>
<tr>
<td>VAA/A 6.24.1</td>
<td>Valve Drive Actuator 6f 24V/…*</td>
<td>20</td>
<td>66</td>
<td>66</td>
</tr>
</tbody>
</table>

* … = current version number of the application program. Please observe the software information on our homepage for this purpose.

### Note

The ETS and the current version of the device application program are required for programming.

The current version of the application program is available for download on the internet at www.abb.com/knx. After import it is available in the ETS under ABB/Heating, Ventilation, Air conditioning/Valve Drive Actuator.

The device does not support the closing function of a KNX device in the ETS. If you inhibit access to all devices of the project with a BCU code, it has no effect on this device. Reading out data and programming is still possible.
ABB i-bus® KNX
Valve Drive Actuator
VAA/A 6.24.1, 2CDG 120 032 R0011

Circuit diagram

1 230 V connector
2 24 V actuating drive connector
3 KNX connection terminal
4 Operating display
5 Fuse display
6 LED channel
7 KNX programming key
8 KNX programming LED
9 Fuse

Dimension drawing

VAA/A 6.24.1