

ABB i-bus® KNX Valve Drive Actuator VAA/A 6.24.1, 2CDG 120 032 R0011



2CDC 071 118 S0009

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	Bus connection terminal
	Valve actuator (6) connection	Plug-in terminal 1.0...1.5 mm ² stranded 0.5...1.5 mm ² 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	

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Device type	Application program	Maximum number of communication objects	Maximum number of group addresses	Maximum number of associations
VAA/A 6.24.1	Valve Drive Actuator 6f 24V/...*	20	66	66

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

Note

For a detailed description of the application program see *Valve Drive Actuator VAA/A 6.24.1* product manual. It is available free-of-charge at www.abb.com/knx.

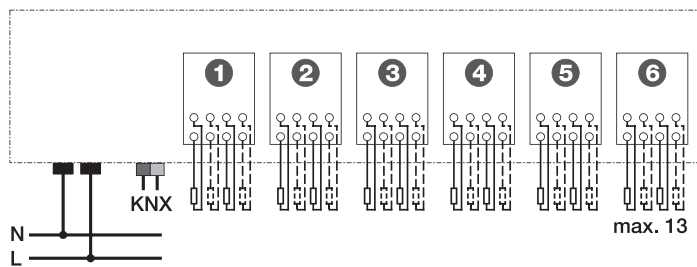
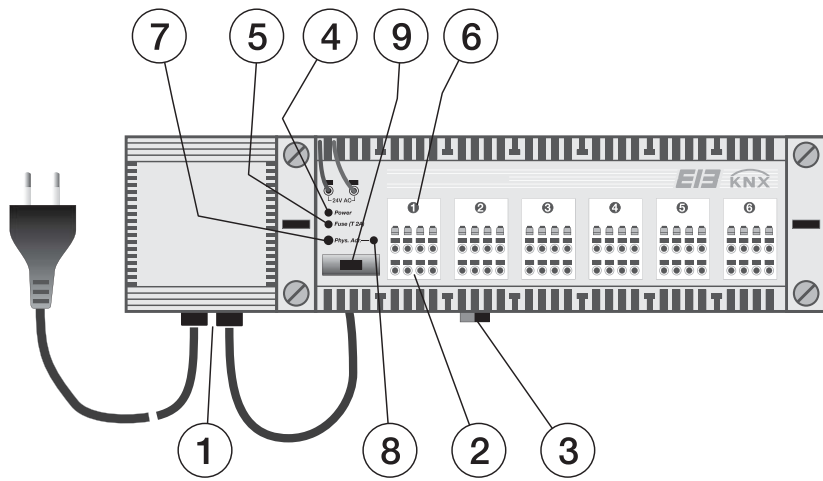
The ETS and the current version of the device application program are required for programming.

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.

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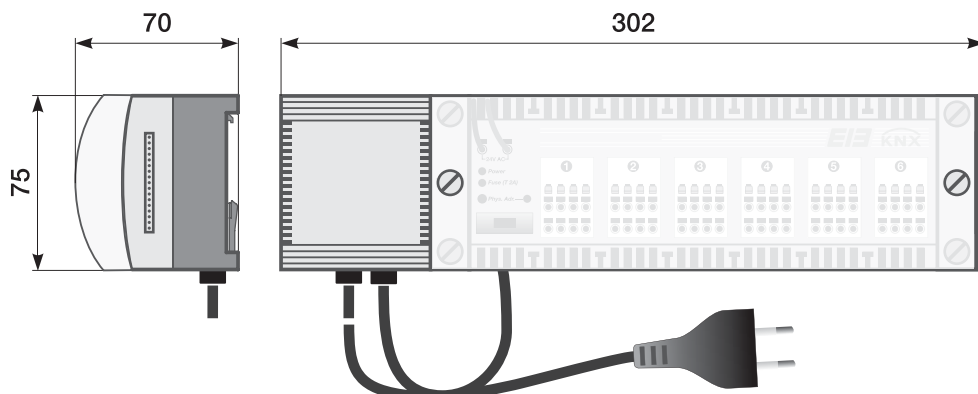
Circuit diagram



2CDC 072 024 F0011

- 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



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Notes