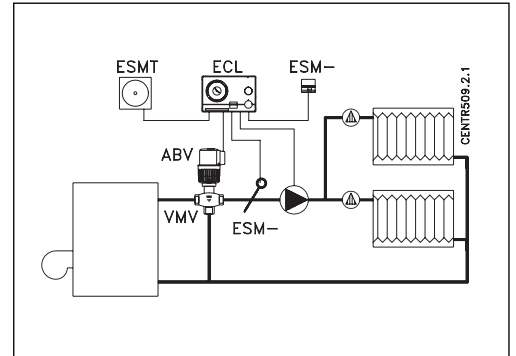


## Data sheet

# Thermohydraulic motor ABV

### Description / Application



- 24 V or 230/240 V
- Direct-acting or reverse-acting versions
- Power consumption 9 VA
- Built-in manual operation
- Built-in kv limiting
- For type RAV, VMA and VMT 2-way valves
- For type VMV and KOVM 3-way valves

ABV thermohydraulic motor is used with small Danfoss seated valves to control:

- Flow temperature
- Floor heating systems
- Hot water service systems
- Zone valves
- District heating systems

### Application table

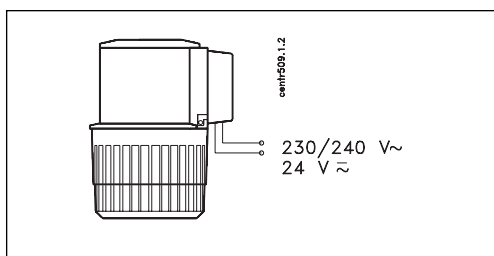
Valve type	Application											
	Flow temperature control								ON/OFF control			
	Oil and gas burners				District heating				Zone control	Hot water control		
	Mixing with boiler shunt		Burner control with hot water priority		Mixing loop system		Heat exchanger			Storage cylinder		
	ABV		ABV		ABV		ABV			ABV		
NO	NC	NO	NC	NO	NC	NO	NC	NO	NC	NO	NC	
RAV-/2, RAV-/8			x	x		x		x	x	x	x	x
VMT-/2, VMT-/8			x	x		x		x	x	x	x	x
VMA			x	x		x		x	x	x	x	x
VMV 15 - 20	x		x						x		x	
VMV 25 - 40	x		x						x		x	
KOVM											x	x

Note: Only applications as indicated in table are valid

### Ordering

Type	Voltage	Valve function (de-energized)		Consumption	Code no.
		VMA/VMT/RAV 2-way	VMV/KOVM 3-way		
ABV-NO	230/240 V ~	Open	A-AB: Closed	9 VA	<b>082F0001</b>
ABV-NO	24 V ≈		B-AB: Open		<b>082F0002</b>
ABV-NC	230/240 V ~	Closed	A-AB: Open		<b>082F0051</b>
ABV-NC	24 V ≈		B-AB: Closed		<b>082F0052</b>

Electrical connections



Technical data

Supply voltage	24V $\approx$ +30% , 230V $\sim$ +10% or 240V $\sim$ +6% -15% -15% -15%
Frequency	50-60 Hz
Consumption	9 VA
Time for full spindle travel	< 9 min
Max. permissible spindle travel	ABV-NO: 4 mm ABV-NC: 2.2 mm
Ambient temperature	0-60 °C
Enclosure	IP 41
Weight	0.3 kg
Mounting	Any position

Dimensions

ABV/RAV

DN	Type	H mm	L mm
15	RAV/8	111	95
20	RAV/8	111	106
25	RAV/8	124	125

ABV/VMT

DN	Type	H mm	L mm
15	VMT/8	111	105
20	VMT/8	111	123
25	VMT/8	124	146

ABV/VMA

DN	Type	H mm	L mm	L <sub>1</sub> mm	L <sub>2</sub> mm
15	VMA	127	65	131	139
20	VMA	127	70	142	154
25	VMA	132	75	159	159

ABV/VMV

DN	Type	H mm	H <sub>1</sub> mm	L mm
15	VMV	120	35	70
20	VMV	120	40	80
25*	VMV	125	45	90
32*	VMV	130	50	105
40*	VMV	135	60	120

\* ABV-NO only

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