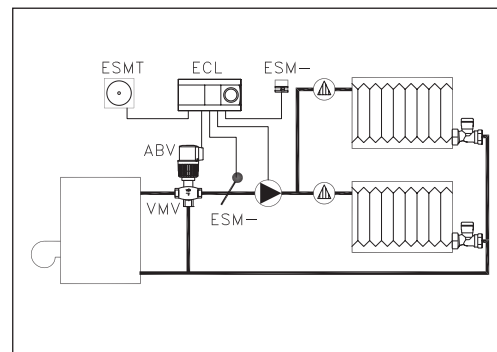


# Data sheet

## 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

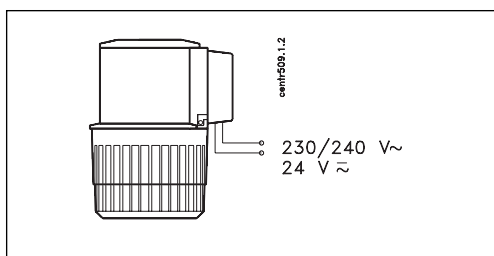
Valve type	Application										
	Flow temperature control								ON/OFF control		
	Oil and gas burners				District heating				Zone control	Hot water control	
	Mixing with boiler shunt	Burner control with hot water priority			Mixing loop system	Heat exchanger				Storage cylinder	
	ABV		ABV			ABV		ABV			ABV
	NO	NC	NO	NC	NO	NC	NO	NC	NO	NC	NO
RAV-/2, RAV-/8			x	x			x	x	x	x	x
VMT-/2, VMT-/8			x	x			x	x	x	x	x
VMA			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 (V)	Valve function (de-energized)		Consumption (VA)	Code no.
		VMA/VMT/RAV	VMV/KOVM		
		2-way	3-way		
ABV-NO	230/240	Open	A-AB: Closed	9	082F0001
ABV-NO	24		B-AB: Open		082F0002
ABV-NC	230/240	Closed	A-AB: Open		082F0051
ABV-NC	24		B-AB: Closed		082F0052

Electrical connections



Technical data

Supply voltage	V	24 AC/DC; 30 to -15 %	230 AC; 10 to -15 %	240 AC; 6 to -15 %
Frequency	Hz	50-60		
Consumption	VA	9		
Time for full spindle travel	ABV-NO	min	10-12	
	ABV-NC	min	8-10	
Max. permissible spindle travel	ABV-NO	mm	4	
	ABV-NC	mm	2.2	
Ambient temperature	°C	0 ... 60		
Enclosure		IP 41		
Weight	kg	0,3		
Mounting		Any position		

Dimensions

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

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

DN	Type	H	L	L1	L2
mm					
15	VMA	127	65	131	139
20	VMA	127	70	142	154
25	VMA	132	75	159	159

DN	Type	H	H1	L
mm				
15	VMT/8	111	35	105
20	VMT/8	111	40	123
25	VMT/8	124	45	146
32*	VMV	130	50	105
40*	VMV	135	60	120

\* ABV-NO only

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