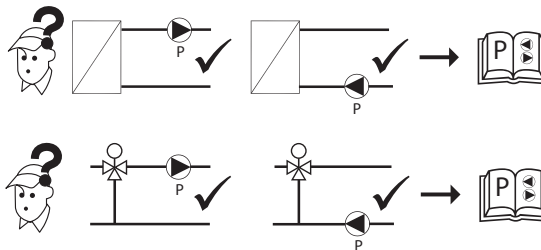
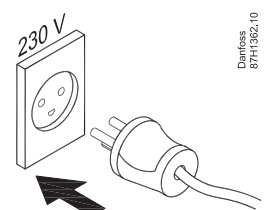
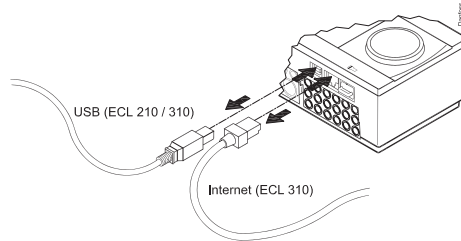
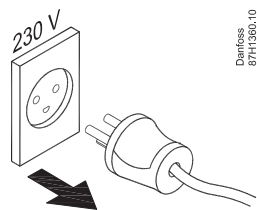
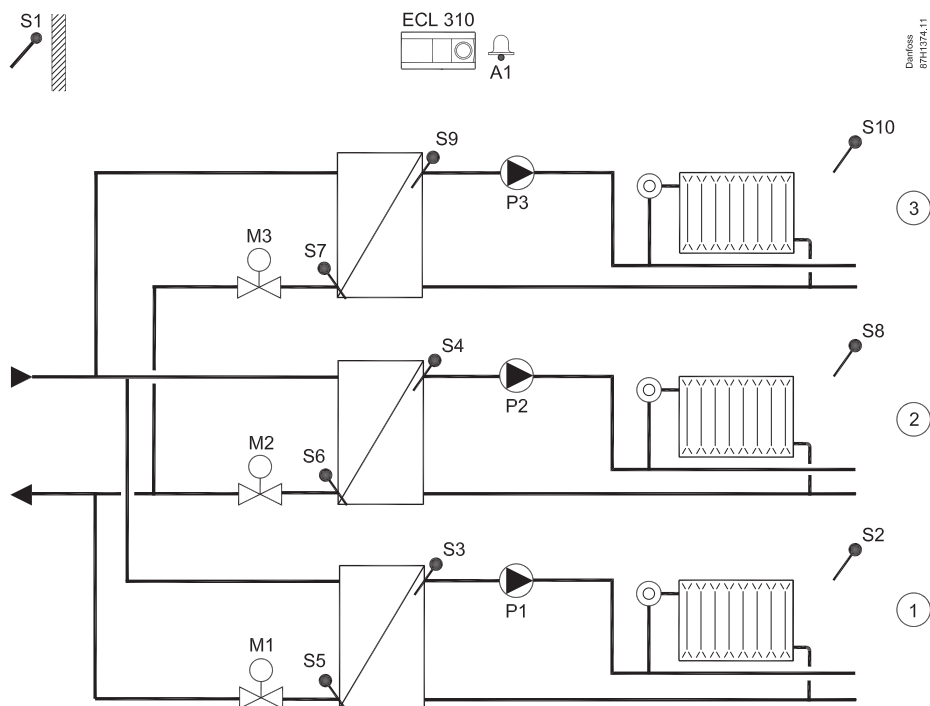


Installation Guide

ECL Comfort 310, A390 (code no. 087H3815, 087H3832)

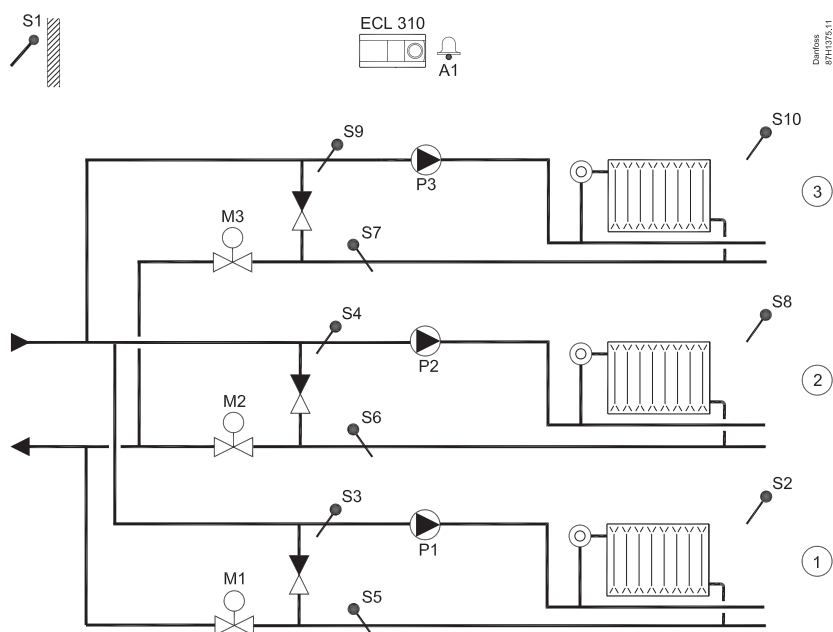


A390.1, ex. a:



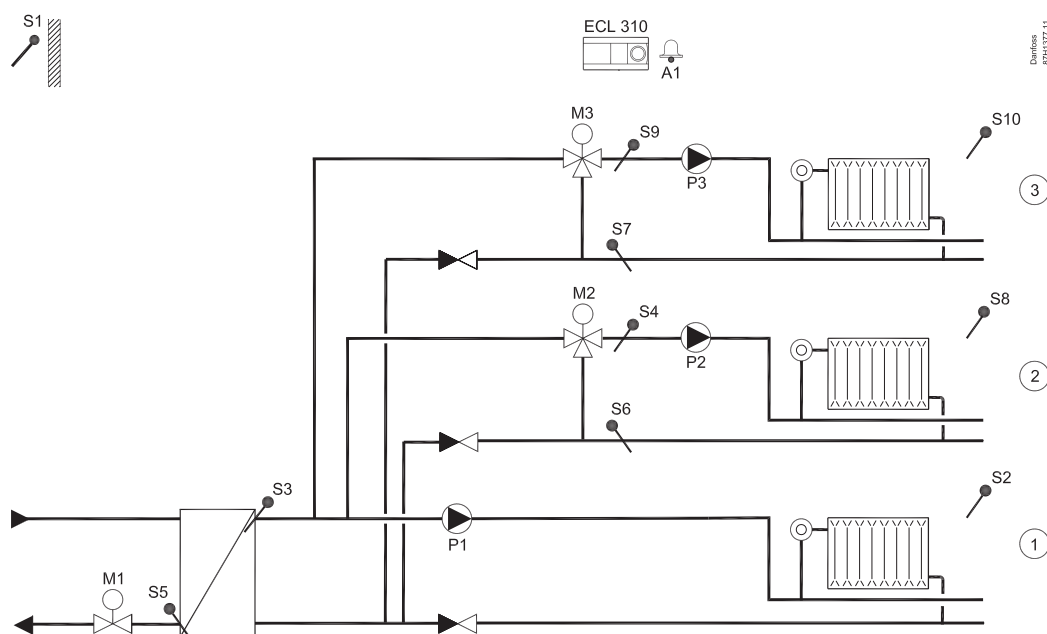
M1, M2, M3 = 3-point

A390.1, ex. b:



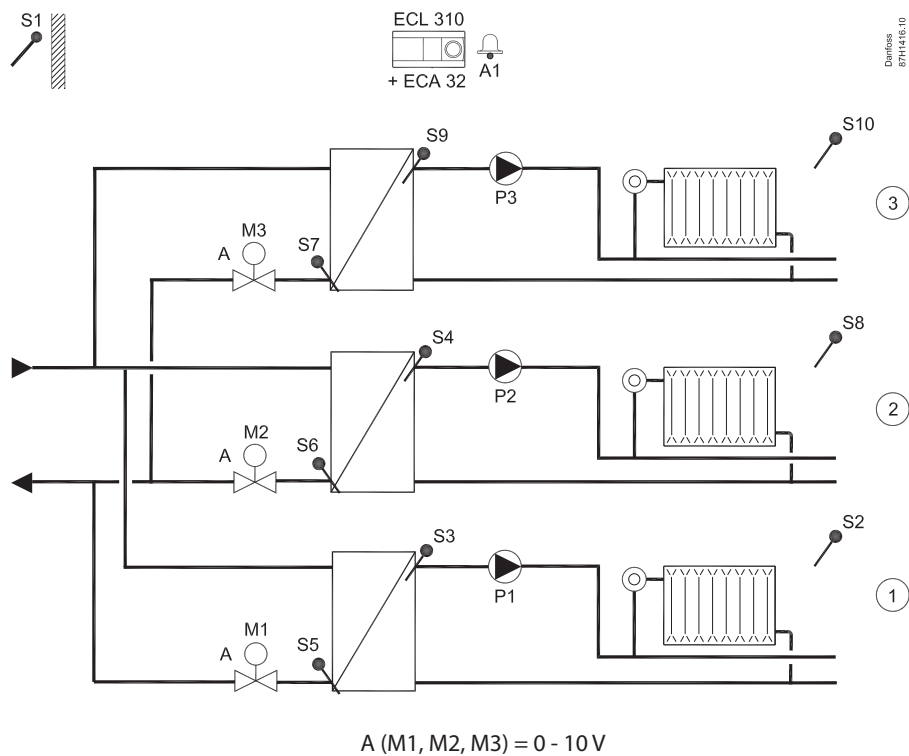
M1, M2, M3 = 3-point

A390.1, ex. c:

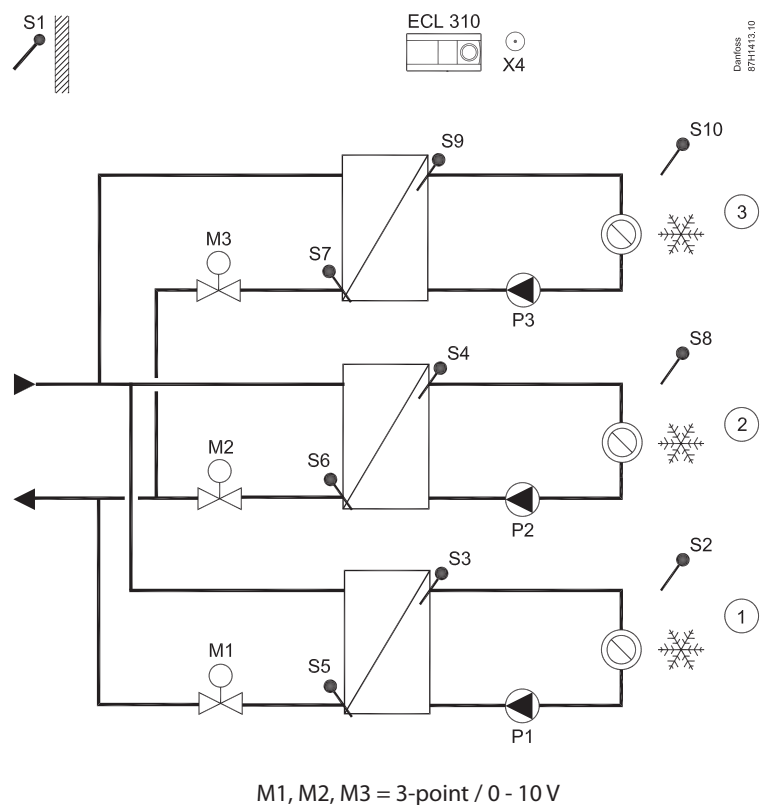


M1, M2, M3 = 3-point

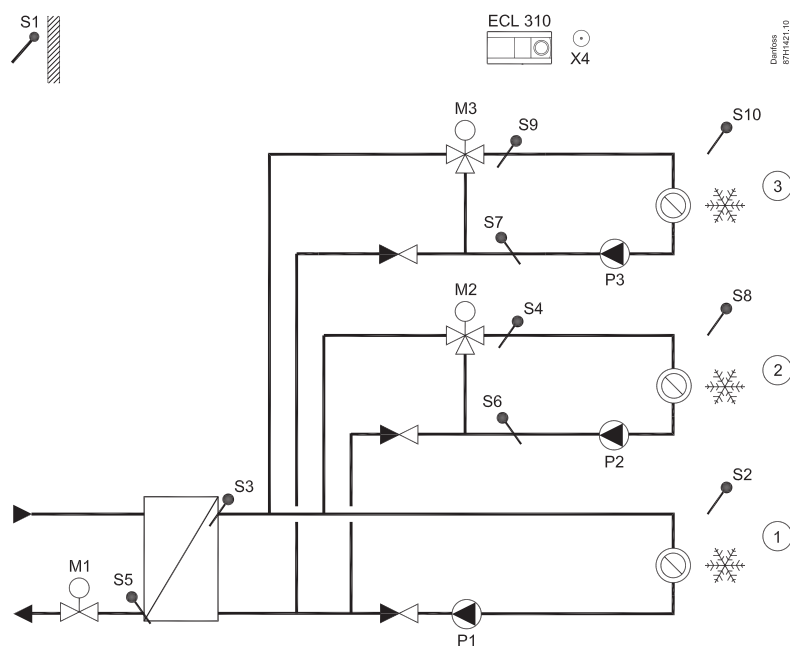
A390.2, ex. a:



A390.3, ex. a:

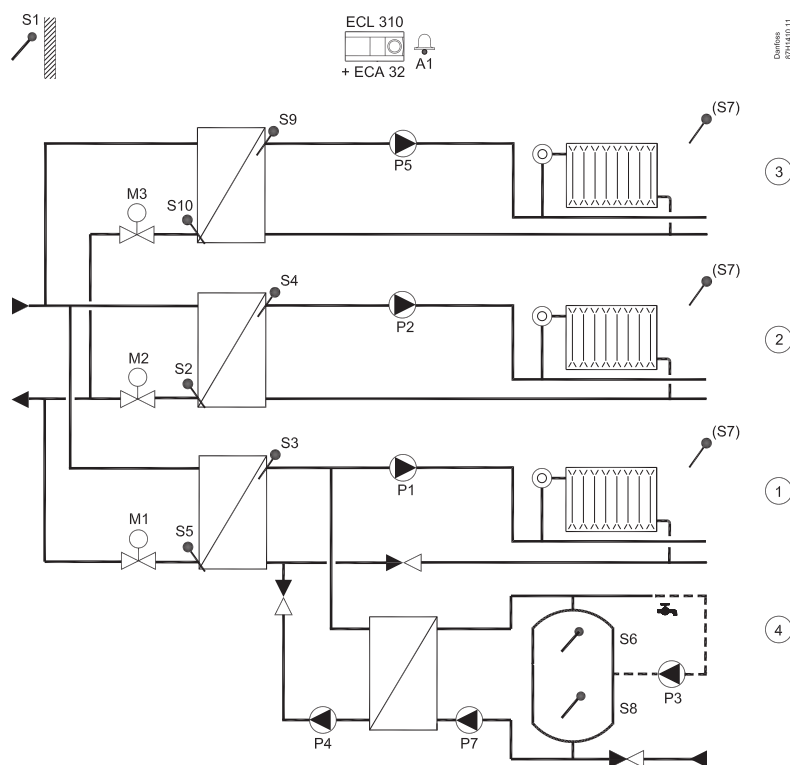


A390.3, ex. b:



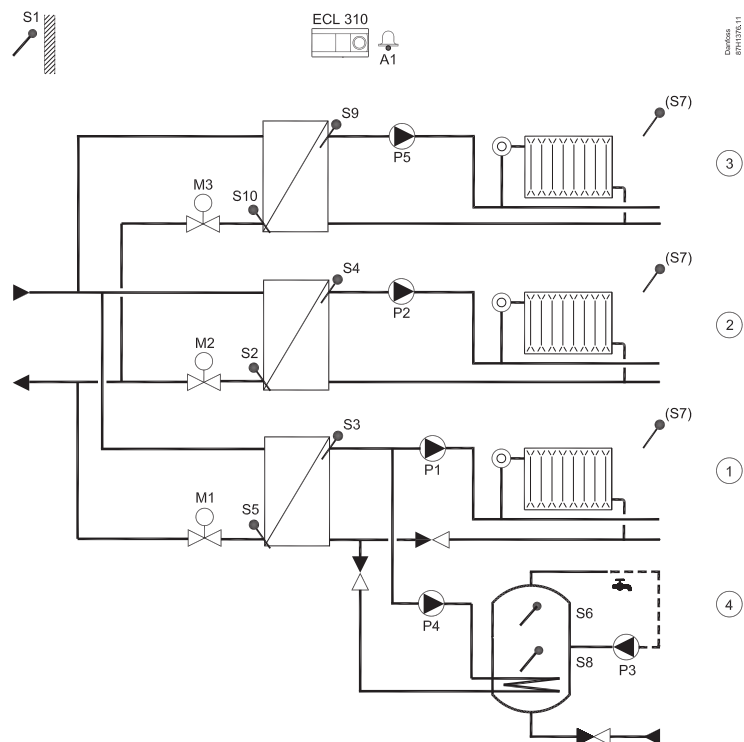
M1, M2, M3 = 3-point / 0 - 10 V

A390.11, ex. a:



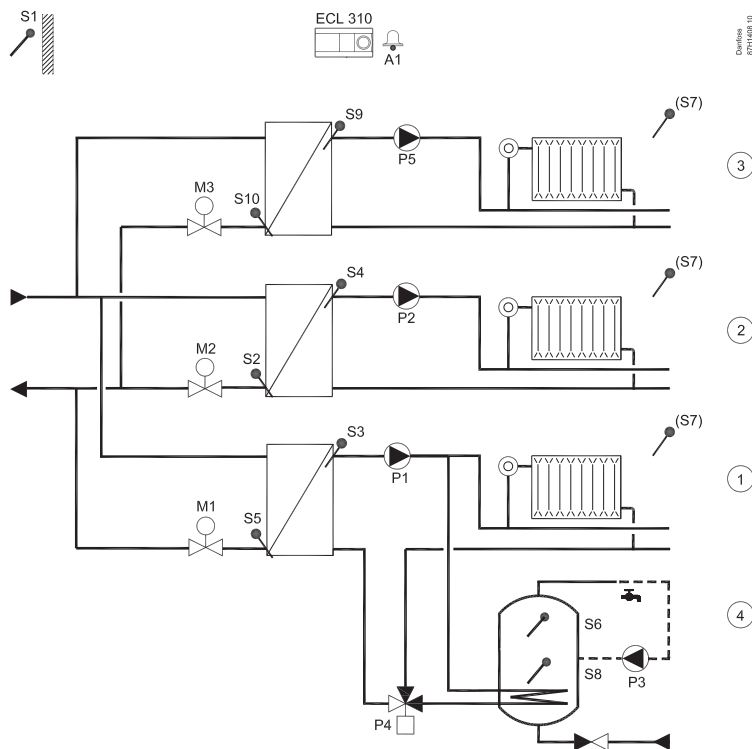
M1, M2, M3 = 3-point / 0 - 10 V

A390.11, ex. b:



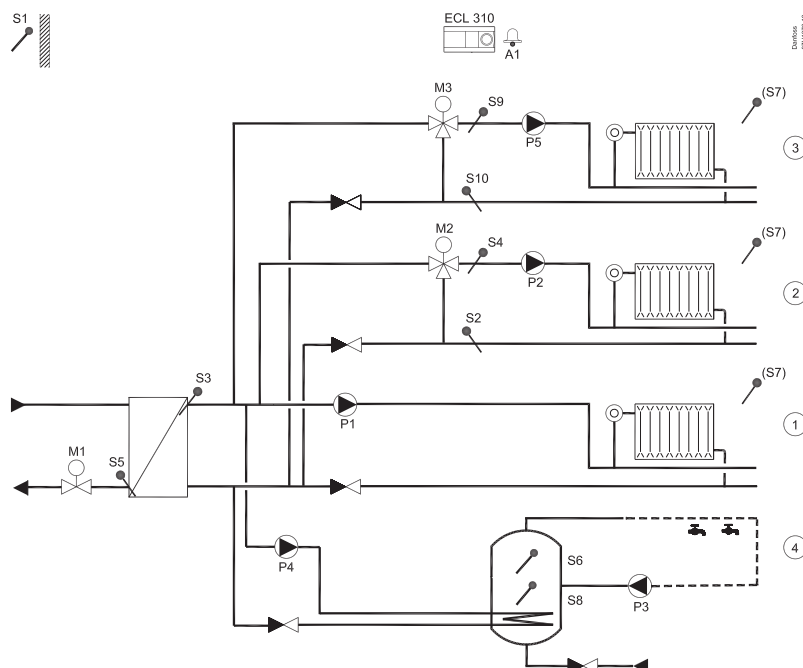
M1, M2, M3 = 3-point / 0 - 10 V

A390.11, ex. c:



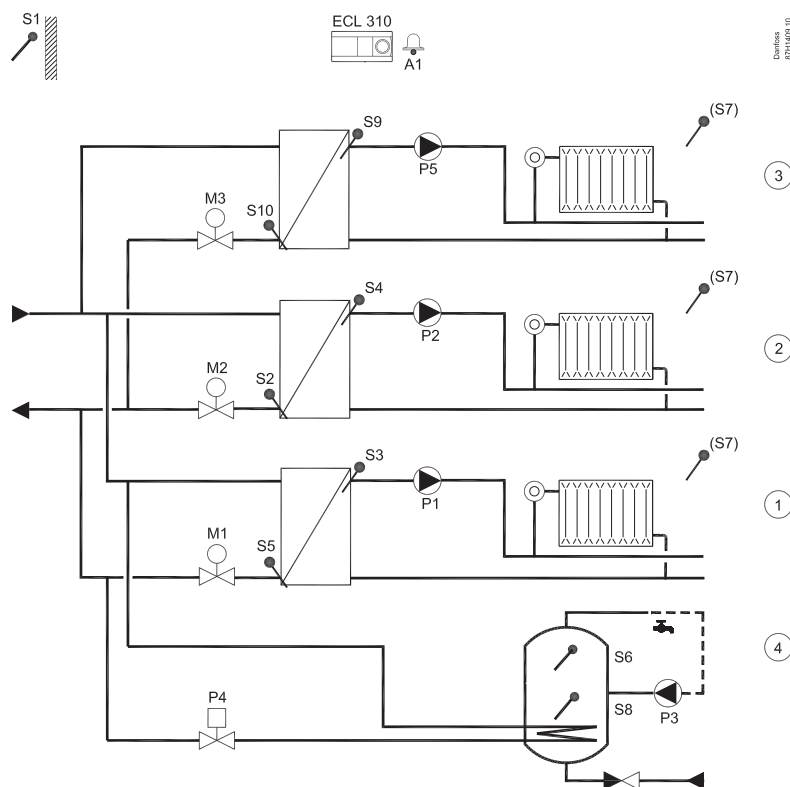
M1, M2, M3 = 3-point / 0 - 10 V

A390.11, ex. d:



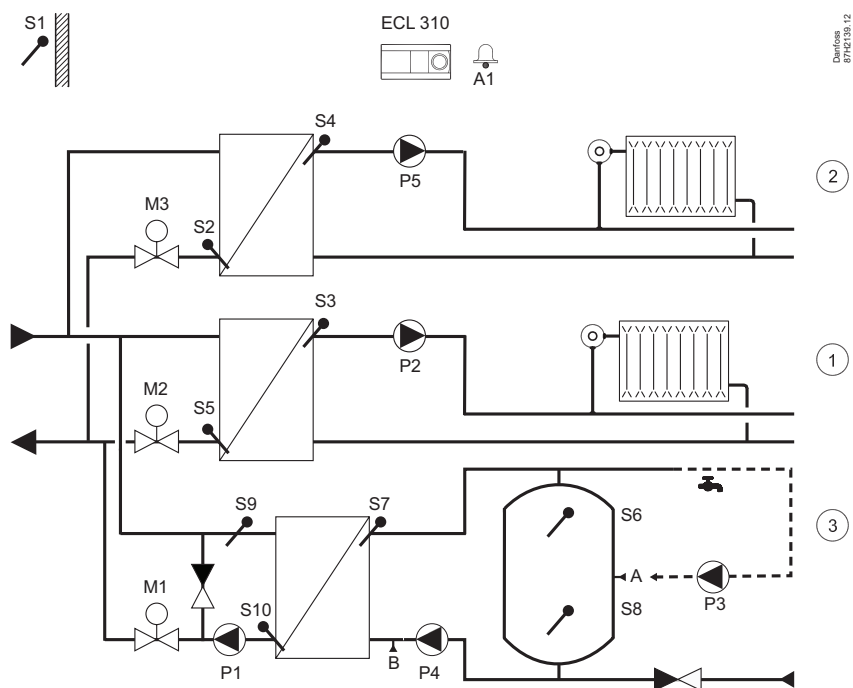
M1, M2, M3 = 3-point / 0 - 10 V

A390.11, ex. e:



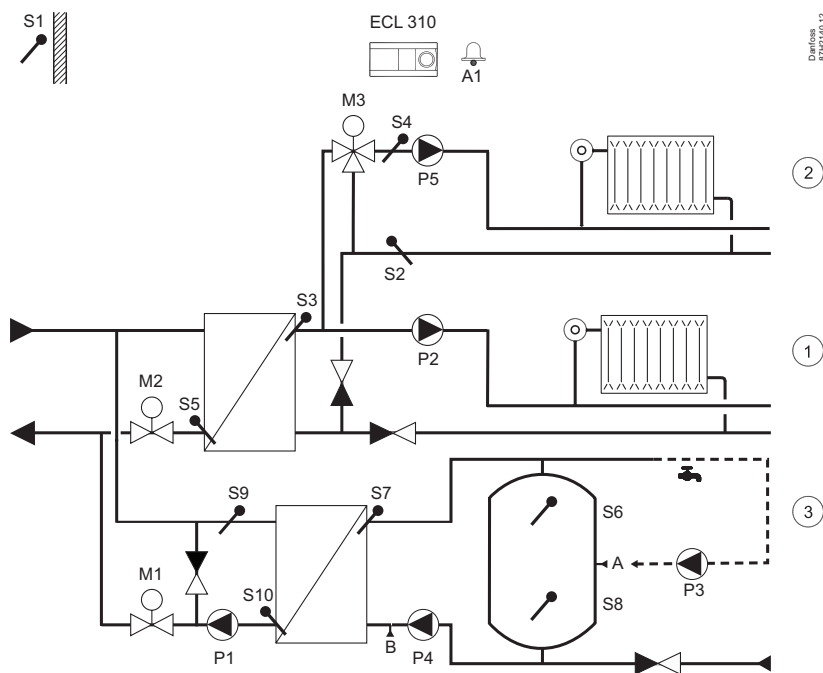
M1, M2, M3 = 3-point / 0 - 10 V

A390.12, ex. a:



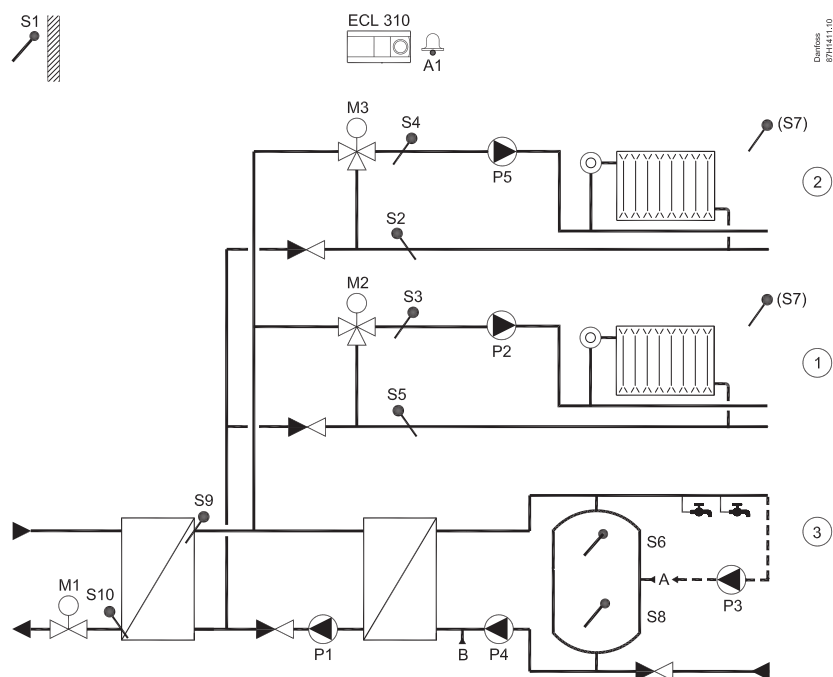
M1, M2, M3 = 3-point / 0 - 10 V

A390.12, ex. b:



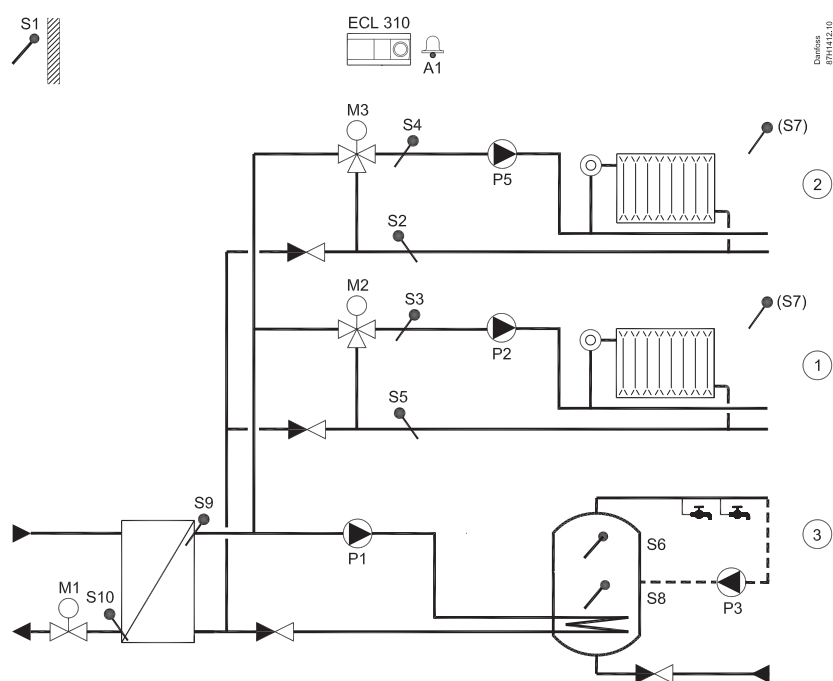
M1, M2, M3 = 3-point / 0 - 10 V

A390.13, ex. a:






M1, M2, M3 = 3-point / 0 - 10 V

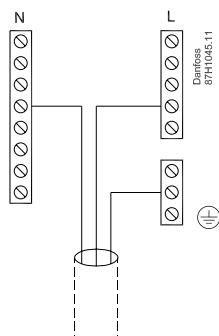
A390.13, ex. b:



M1, M2, M3 = 3-point / 0 - 10 V

**ECL Comfort 310:
230 V a.c.**

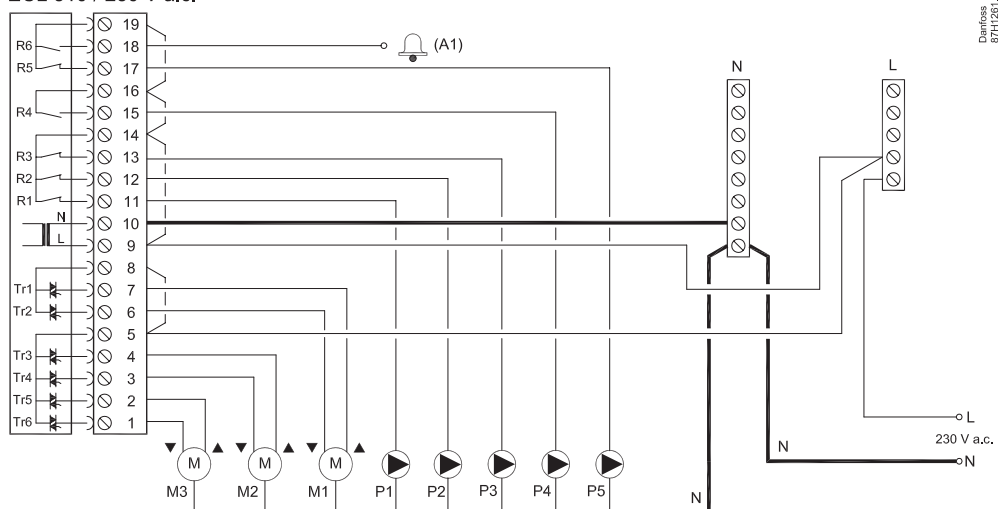
R		4 (2) A / 230 V a.c.
R		
Tr		0,2 A / 230 V a.c.



230 V a.c., A390 (ECL 310)

	M1	M2	M3		R1	R2	R3	R4	R5	R6
A390.1	✓	✓	✓		P1	P2	P3			A1
A390.2					P1	P2	P3			A1
A390.3	✓	✓	✓		P1	P2	P3	X4		
A390.11	✓	✓	✓		P1	P2	P3	P4	P5	A1
A390.12	✓	✓	✓		P1	P2	P3	P4	P5	A1
A390.13	✓	✓	✓		P1	P2	P3	P4	P5	A1

ECL 310 / 230 V a.c.

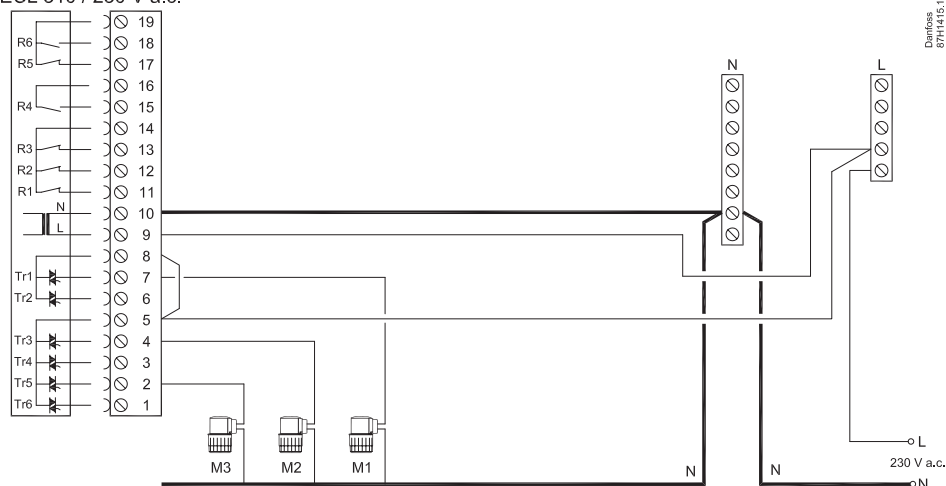


Installation Guide, ECL Comfort 310, A390

230 V a.c., A390 (ECL 310) Danfoss ABV

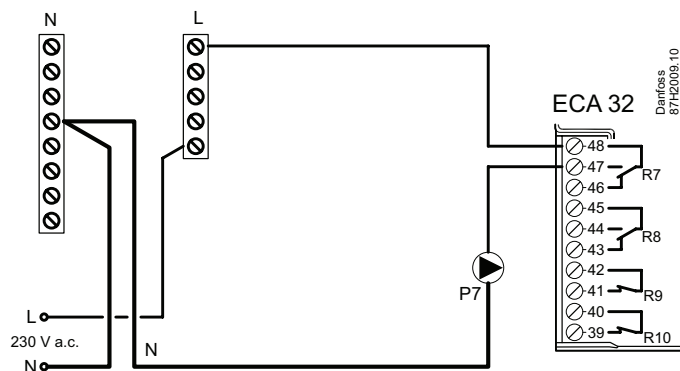
	Danfoss type ABV:		
	M1	M2	M3
A390.1	✓	✓	✓
A390.2			
A390.3	✓	✓	✓
A390.11	✓	✓	✓
A390.12		✓	✓
A390.13		✓	✓

ECL 310 / 230 V a.c.



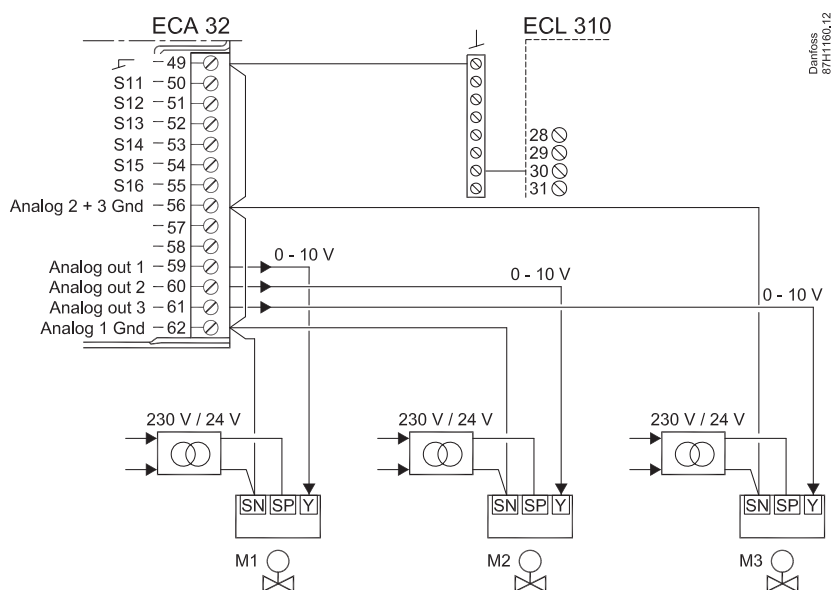
A390, ECA 32

	P7
A390.1	
A390.2	
A390.3	
A390.11	✓
A390.12	
A390.13	



A390, ECA 32

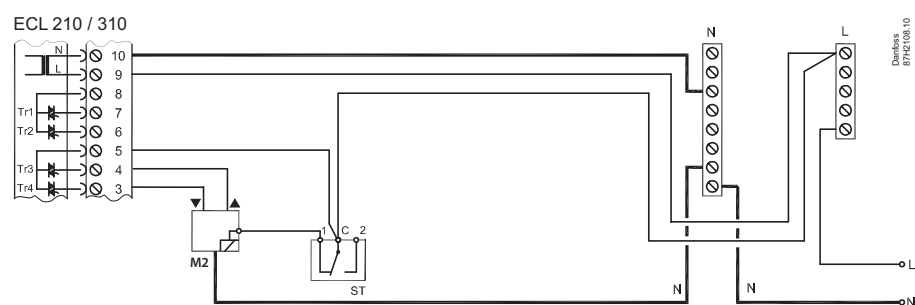
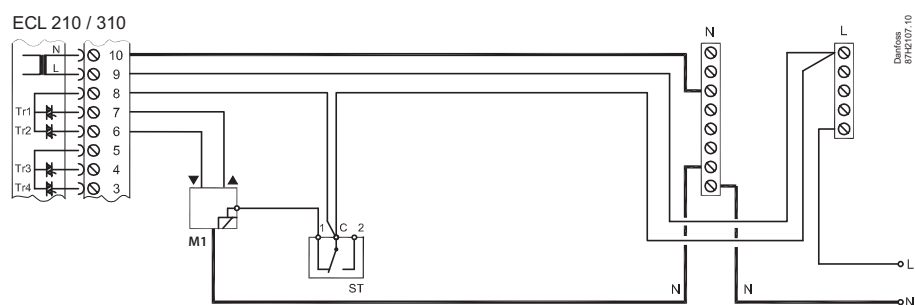
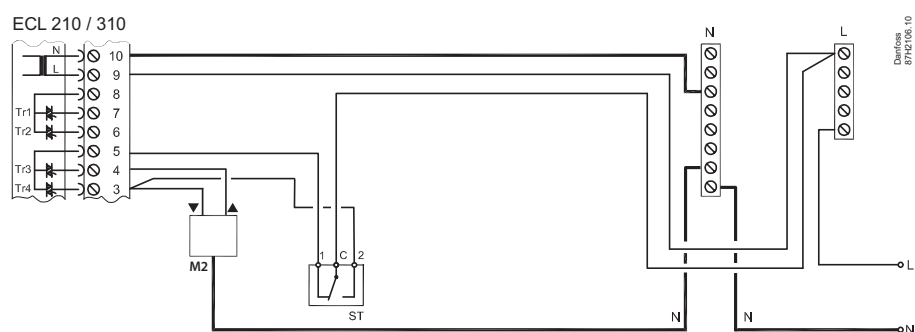
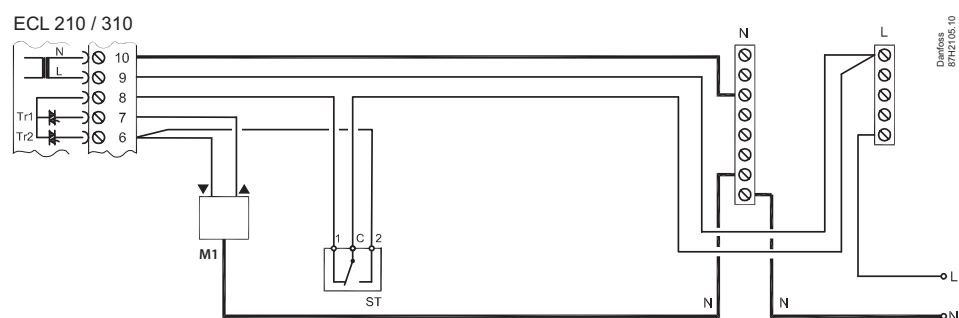
	0 - 10 V:		
	M1	M2	M3
A390.1			
A390.2	✓	✓	✓
A390.3	✓	✓	✓
A390.11	✓	✓	✓
A390.12	✓	✓	✓
A390.13	✓	✓	✓



Installation Guide, ECL Comfort 310, A390

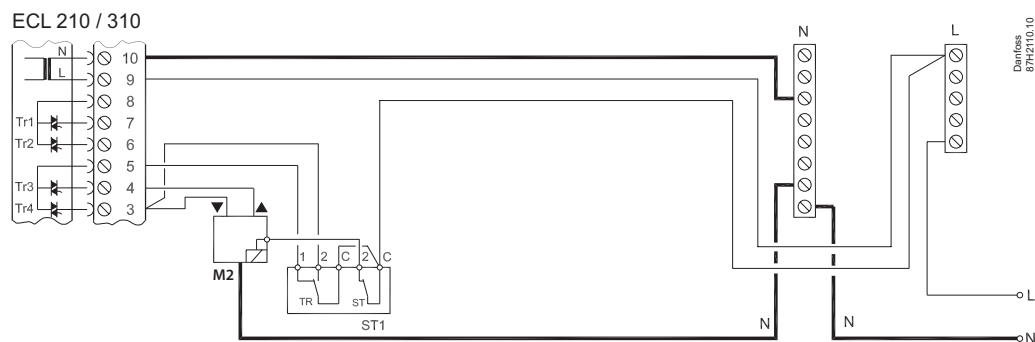
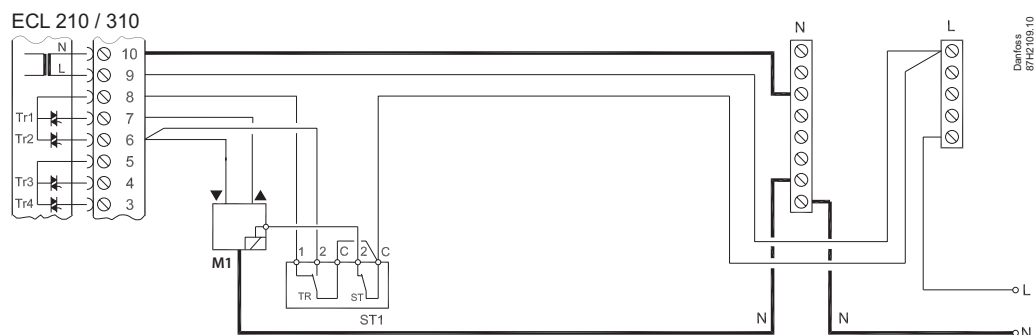
230 V a.c. / 24 V a.c. safety thermostat

1-step closing



230 V a.c. / 24 V a.c. safety thermostat




2-step closing



Installation Guide, ECL Comfort 310, A390

ECL Comfort 310:

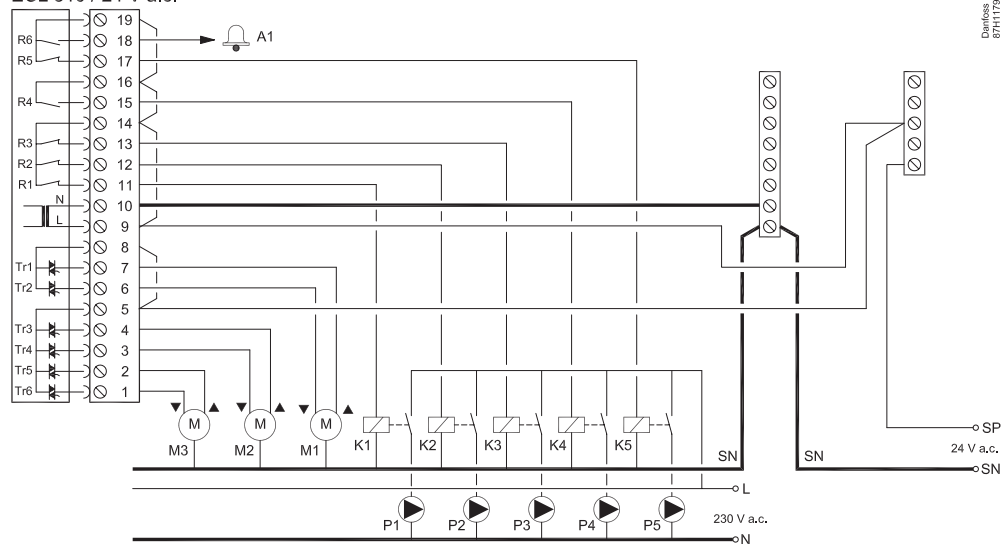
24 V a.c.

R		4 (2) A / 24 V a.c.
R		
Tr		1 A / 24 V a.c.

24 V a.c., A390 (ECL 310)

	M1	M2	M3		R1	R2	R3	R4	R5	R6
A390.1	✓	✓	✓		P1	P2	P3			A1
A390.2					P1	P2	P3			A1
A390.3	✓	✓	✓		P1	P2	P3	X4		
A390.11	✓	✓	✓		P1	P2	P3	P4	P5	A1
A390.12	✓	✓	✓		P1	P2	P3	P4	P5	A1
A390.13	✓	✓	✓		P1	P2	P3	P4	P5	A1

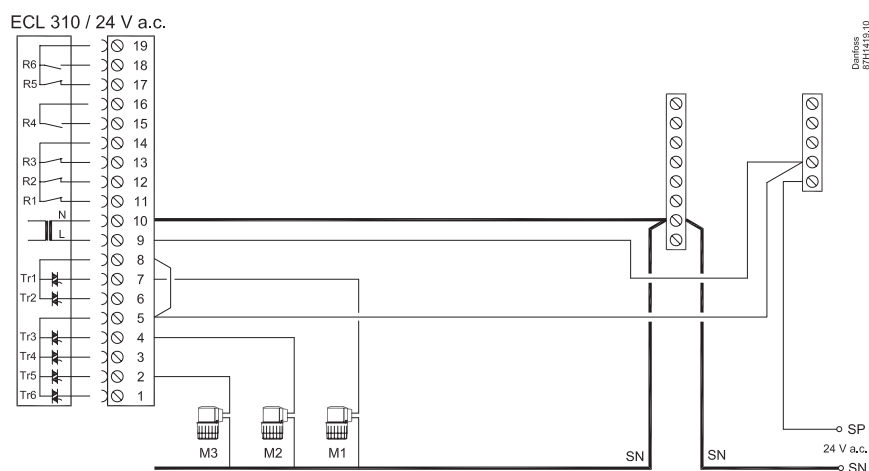
ECL 310 / 24 V a.c.



Installation Guide, ECL Comfort 310, A390

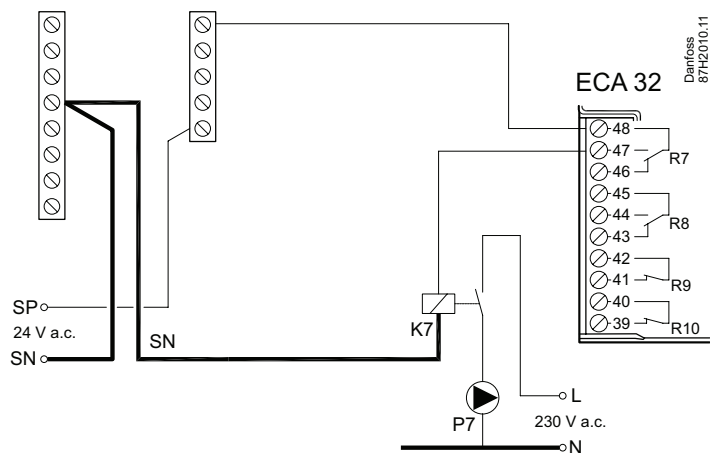
24 V a.c., A390 (ECL 310) Danfoss ABV

	Danfoss type ABV:		
	M1	M2	M3
A390.1	✓	✓	✓
A390.2			
A390.3	✓	✓	✓
A390.11	✓	✓	✓
A390.12		✓	✓
A390.13		✓	✓



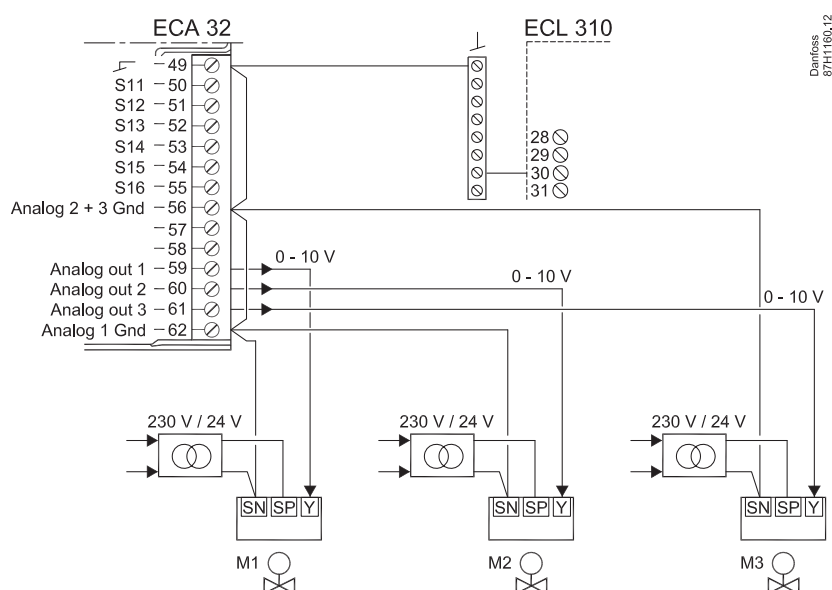
24 V a.c., A390, ECA 32

	P7
A390.1	
A390.2	
A390.3	
A390.11	✓
A390.12	
A390.13	



A390, ECA 32

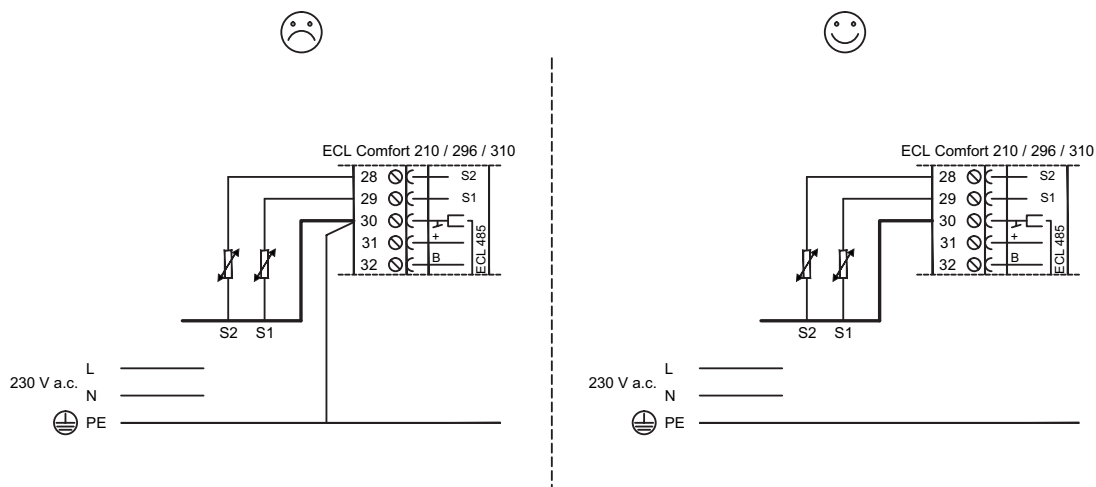
	0 - 10 V:		
	M1	M2	M3
A390.1			
A390.2	✓	✓	✓
A390.3	✓	✓	✓
A390.11	✓	✓	✓
A390.12	✓	✓	✓
A390.13	✓	✓	✓



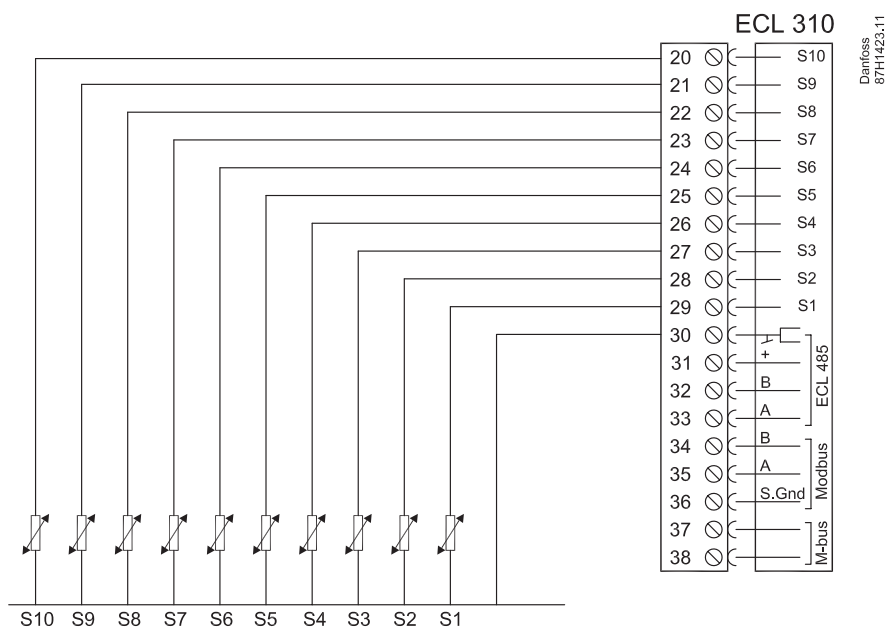
Installation Guide, ECL Comfort 310, A390

A390 (ECL 310)

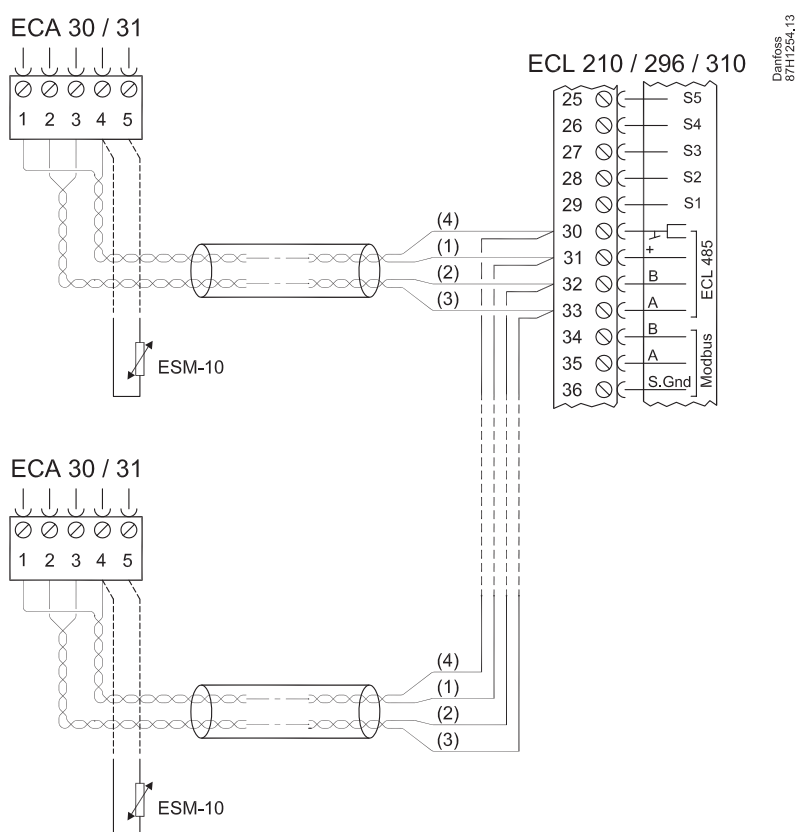
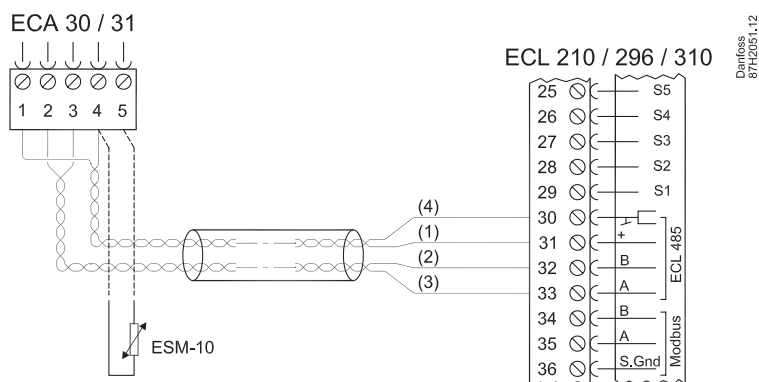
 **Pt 1000** (1000 Ω / 0 °C)



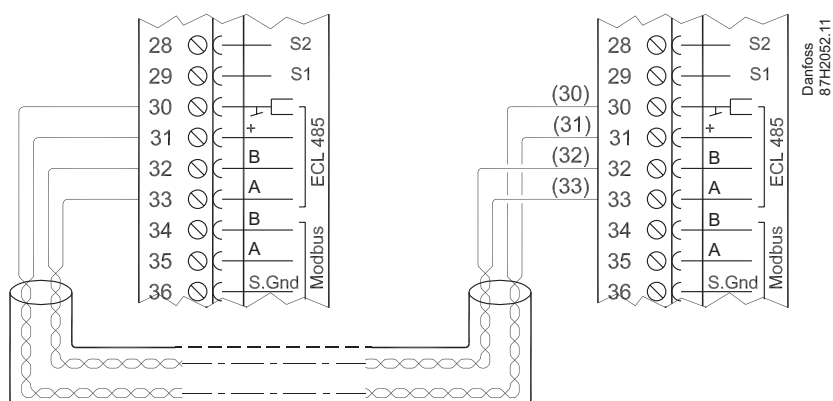
Danfoss
87H1487.11



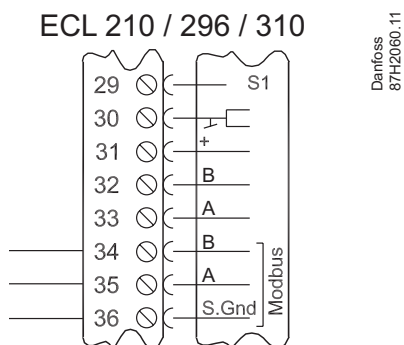
ECA 30 / 31



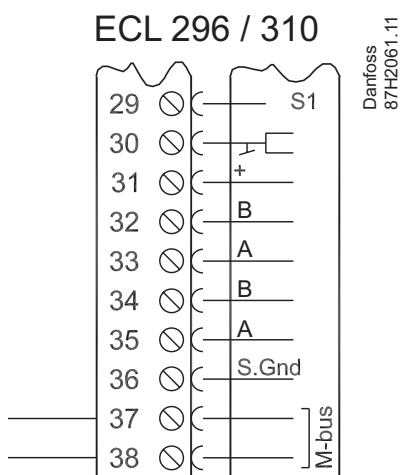
Master / slave



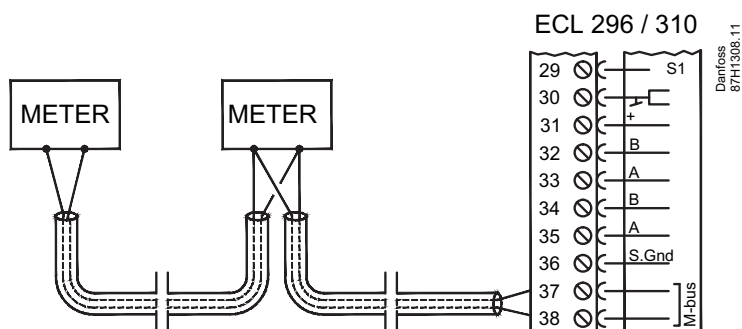
Modbus



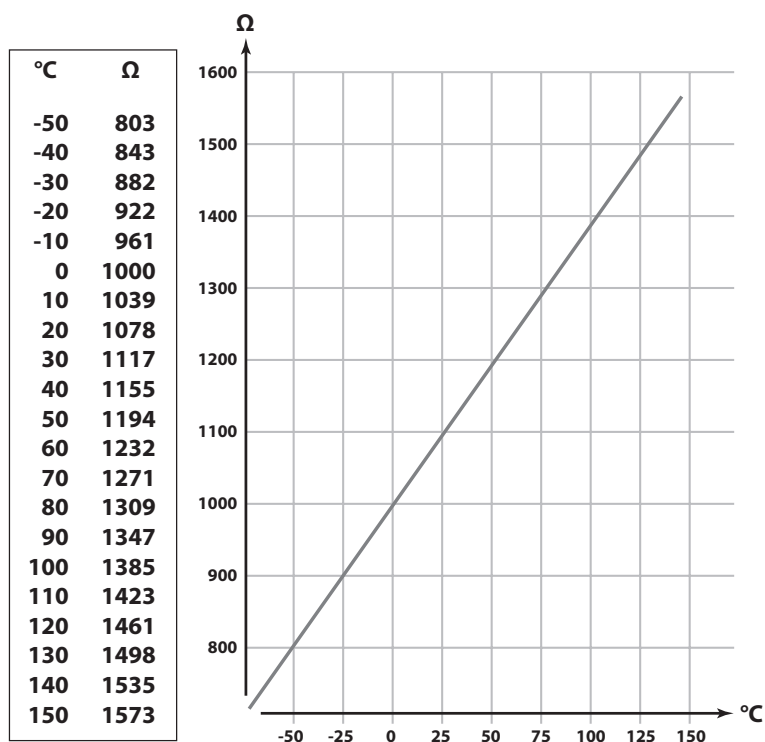
M-bus



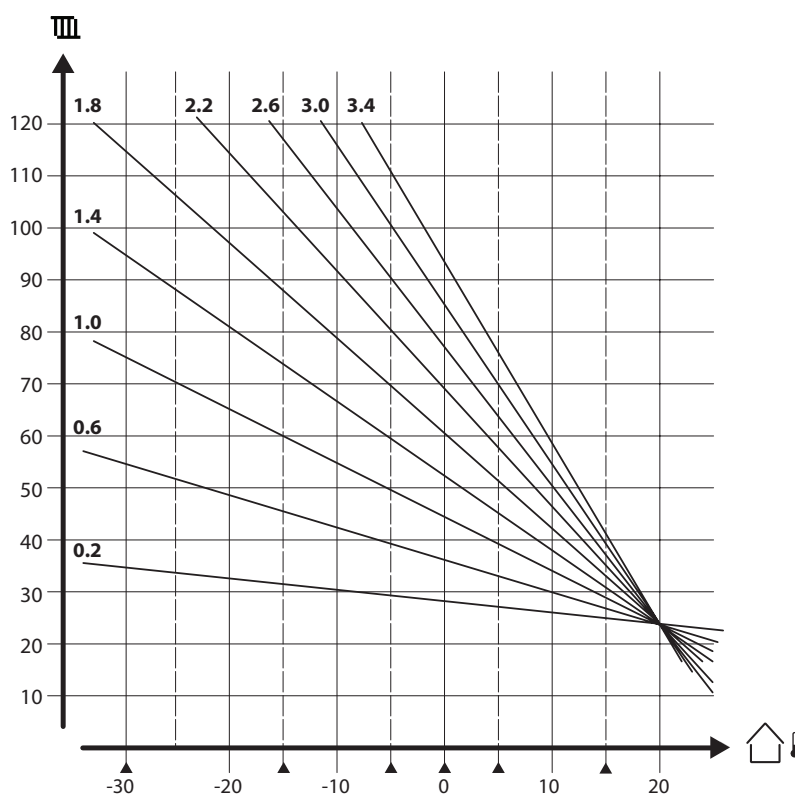
M-bus



Pt 1000 (IEC 751B, 1000 Ω / 0 °C)

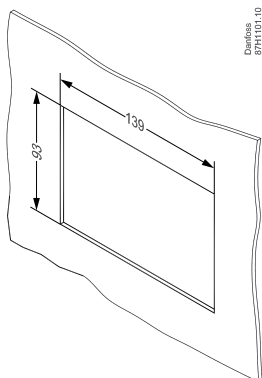


Heat curves

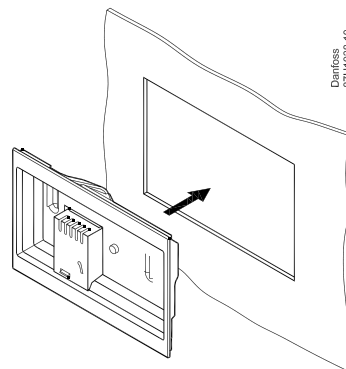


ECA 30

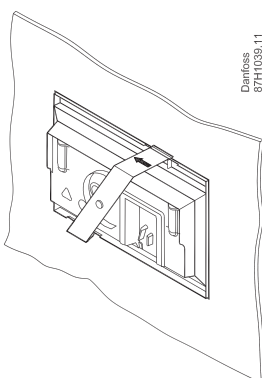
1



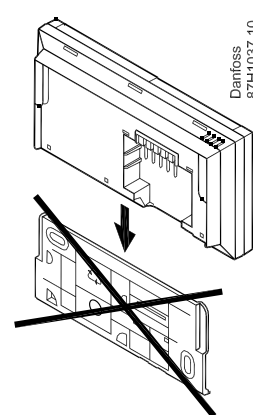
2



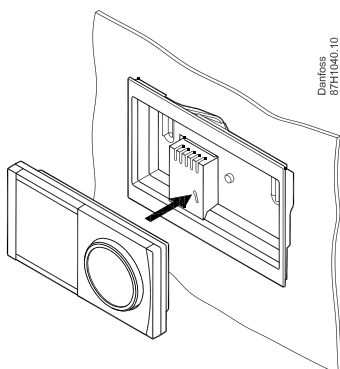
3



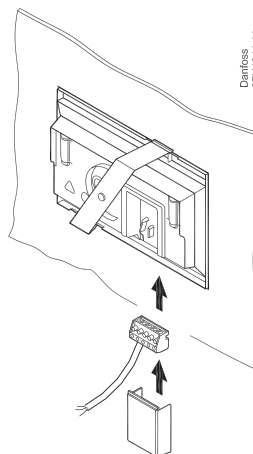
4



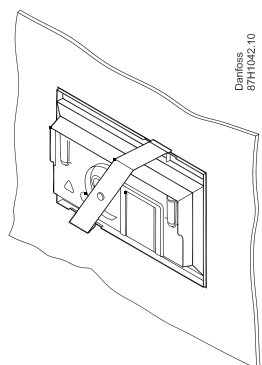
5



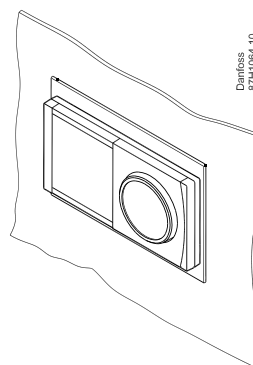
6



7

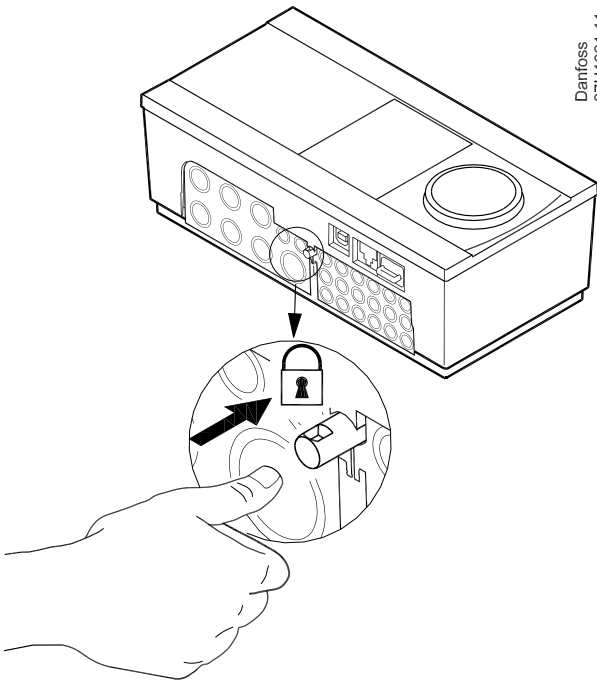


8

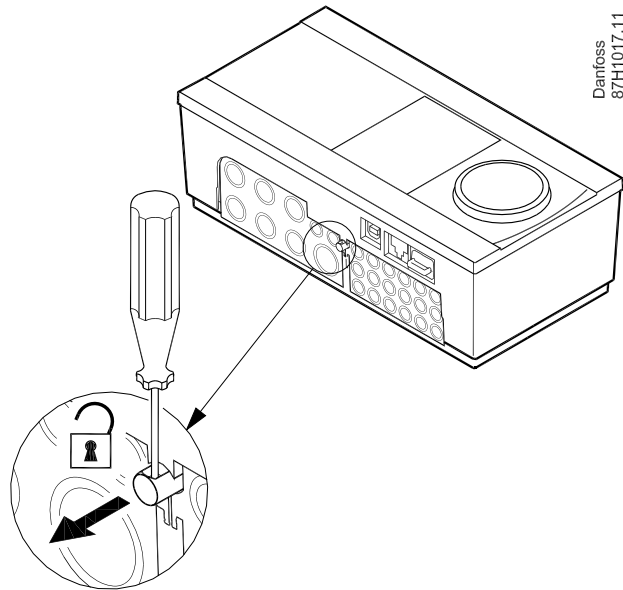


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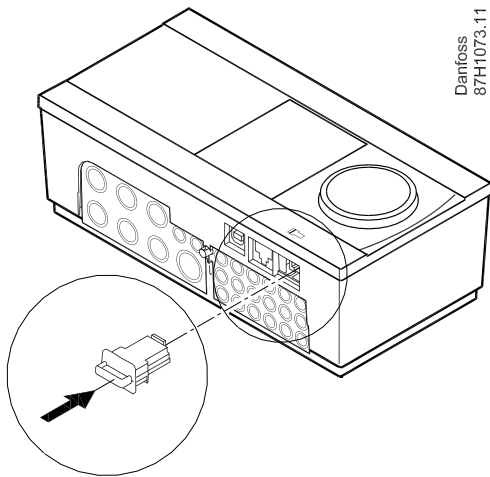
Danfoss
87H1021.11



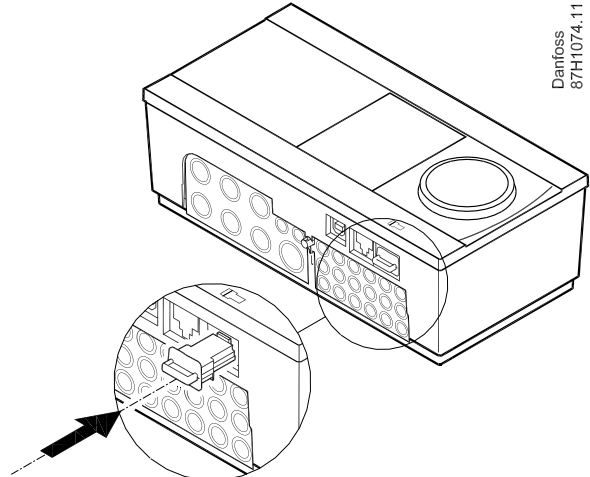
Danfoss
87H1017.11



Danfoss
87H1073.11



Danfoss
87H1074.11



?  **ECL Comfort 310, A390: www.heating.danfoss.com**

?  **<https://www.youtube.com/user/DanfossHeating>
-> Playlists -> How-to Videos -> District Energy installation videos**



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