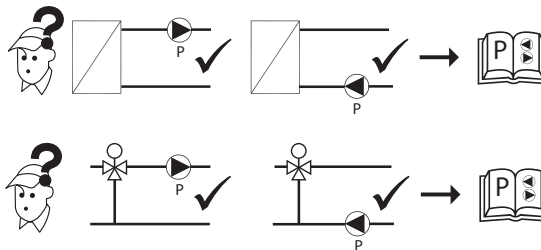
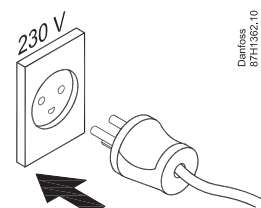
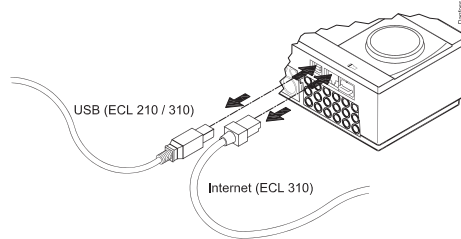
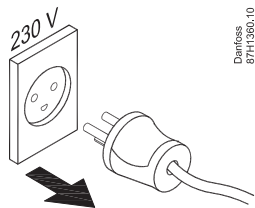
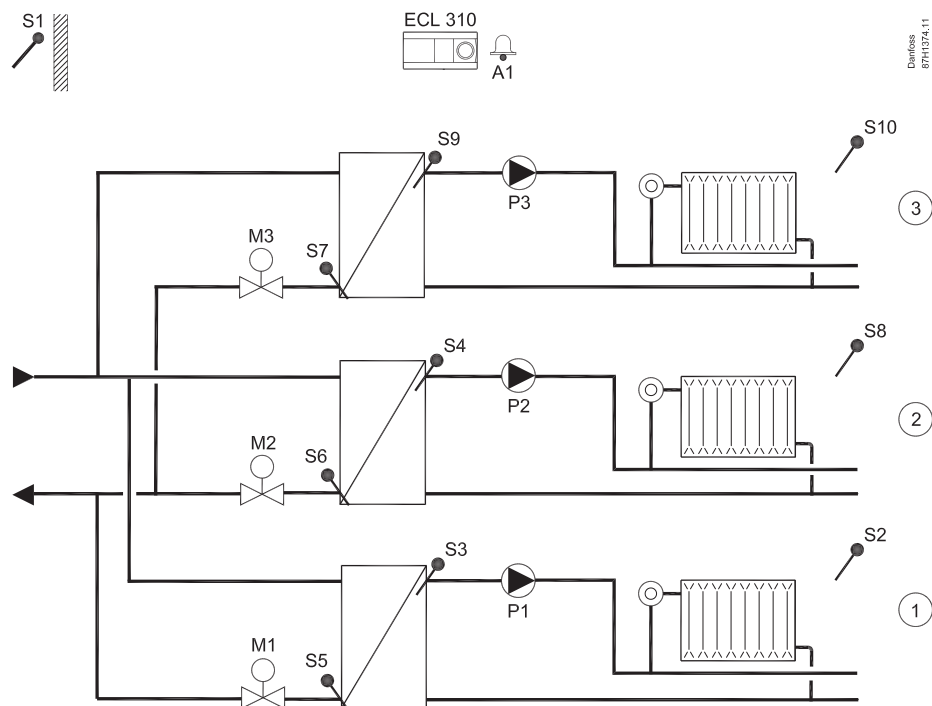


Installation Guide

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

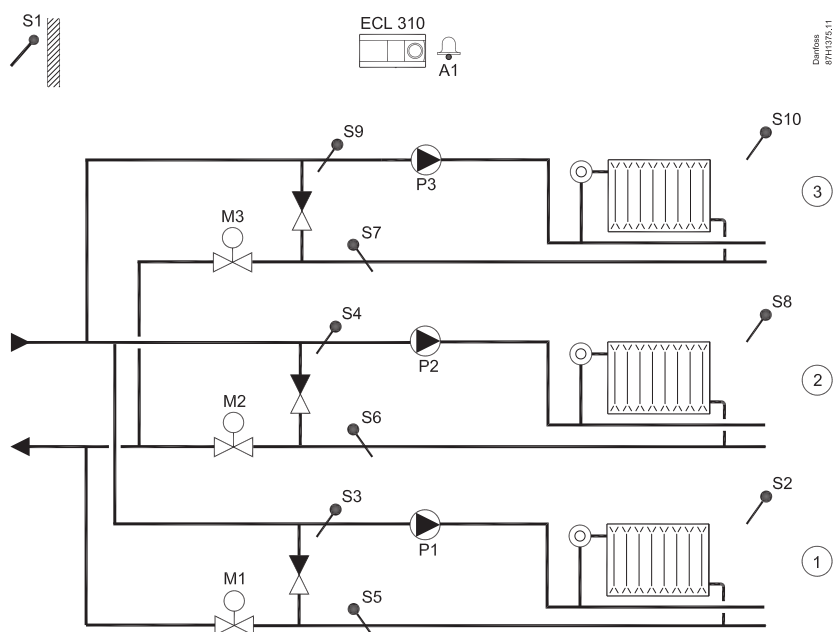


A390.1, ex. a:



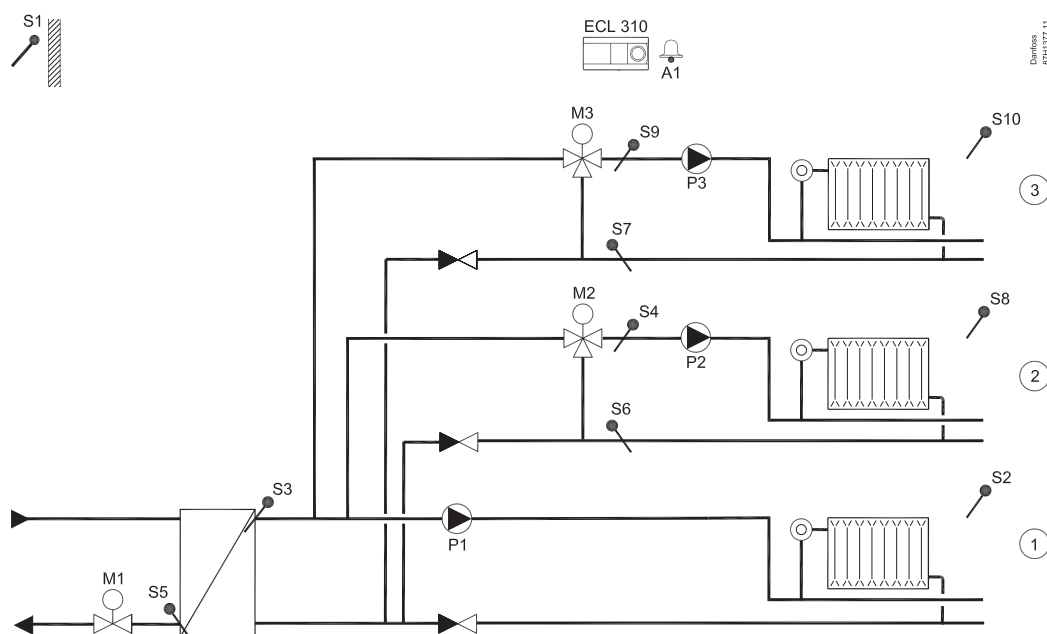
M1, M2, M3 = 3-point

A390.1, ex. b:



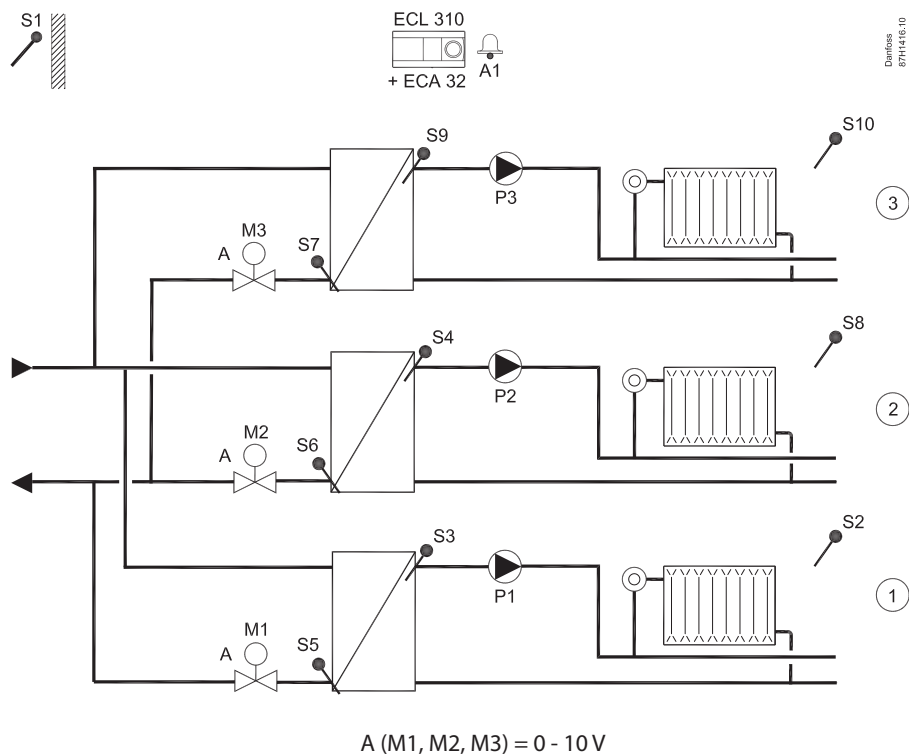
M1, M2, M3 = 3-point

A390.1, ex. c:

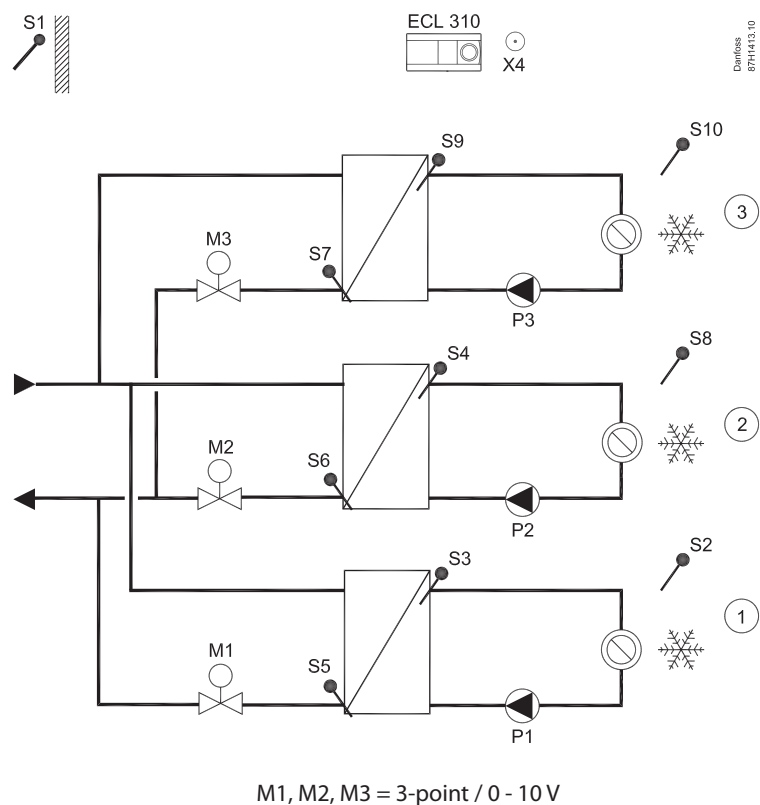


M1, M2, M3 = 3-point

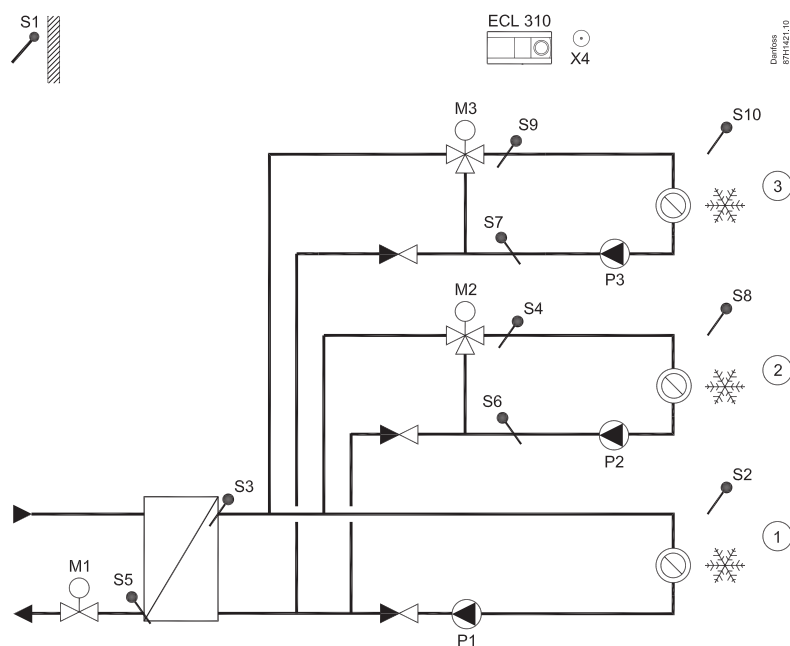
A390.2, ex. a:



A390.3, ex. a:

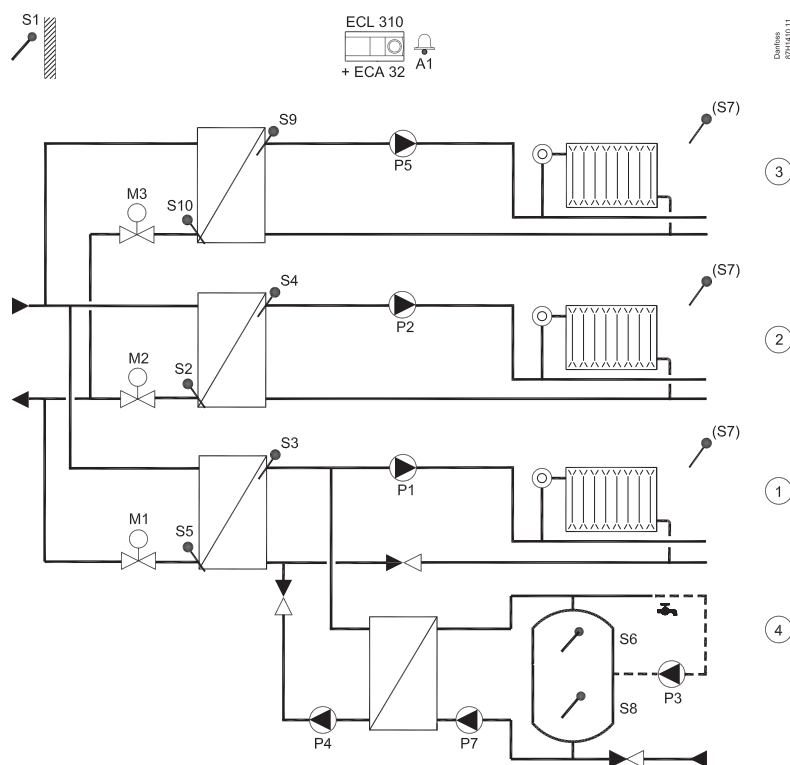


A390.3, ex. b:



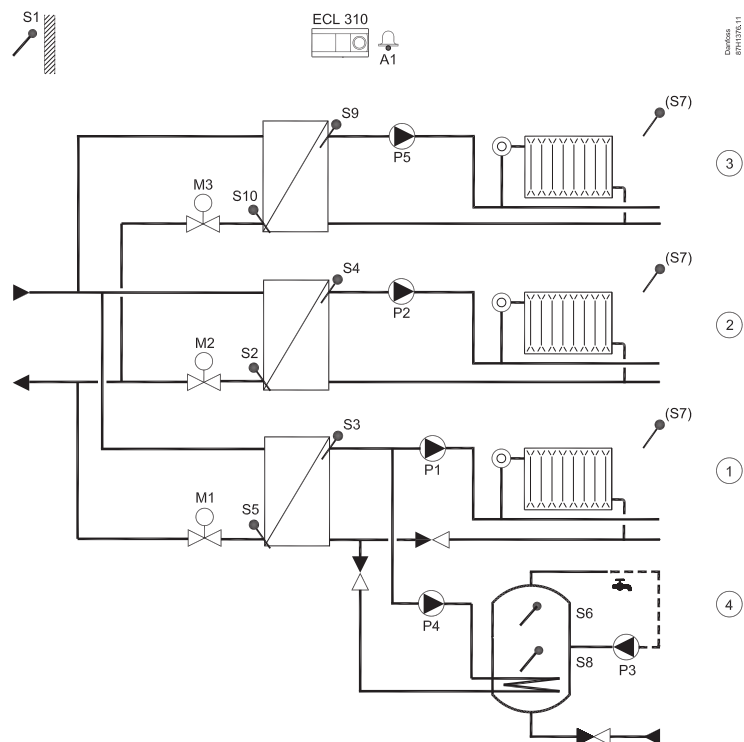
M1, M2, M3 = 3-point / 0 - 10 V

A390.11, ex. a:

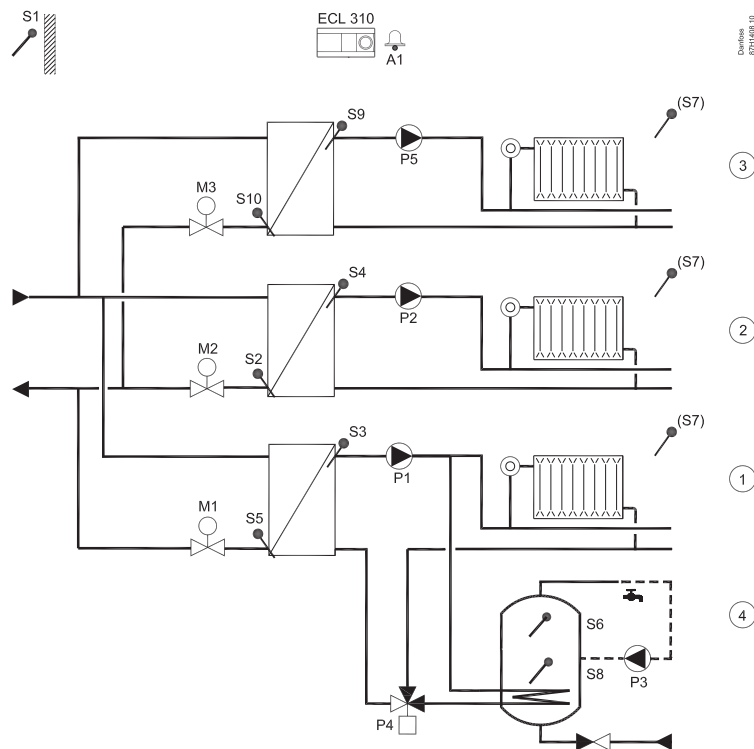


M1, M2, M3 = 3-point / 0 - 10 V

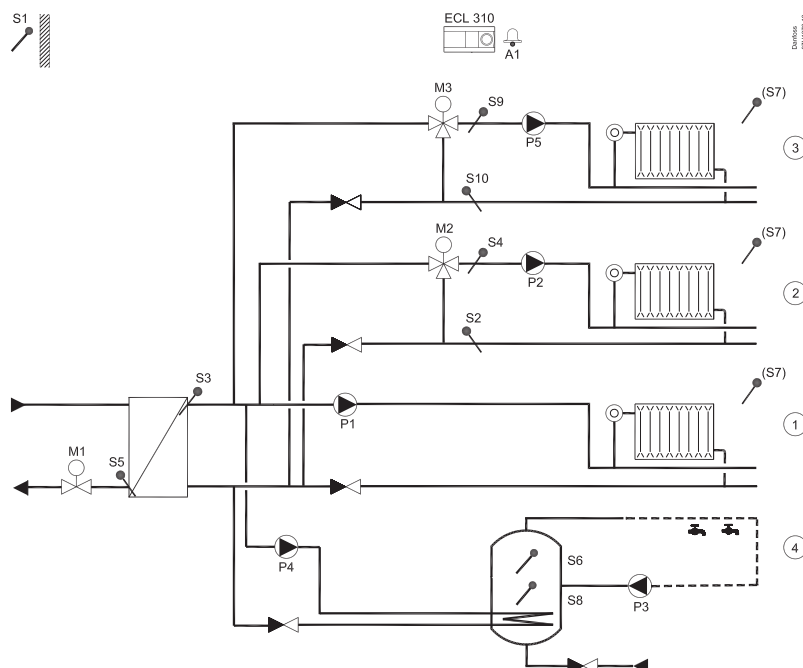
A390.11, ex. b:



A390.11, ex. c:

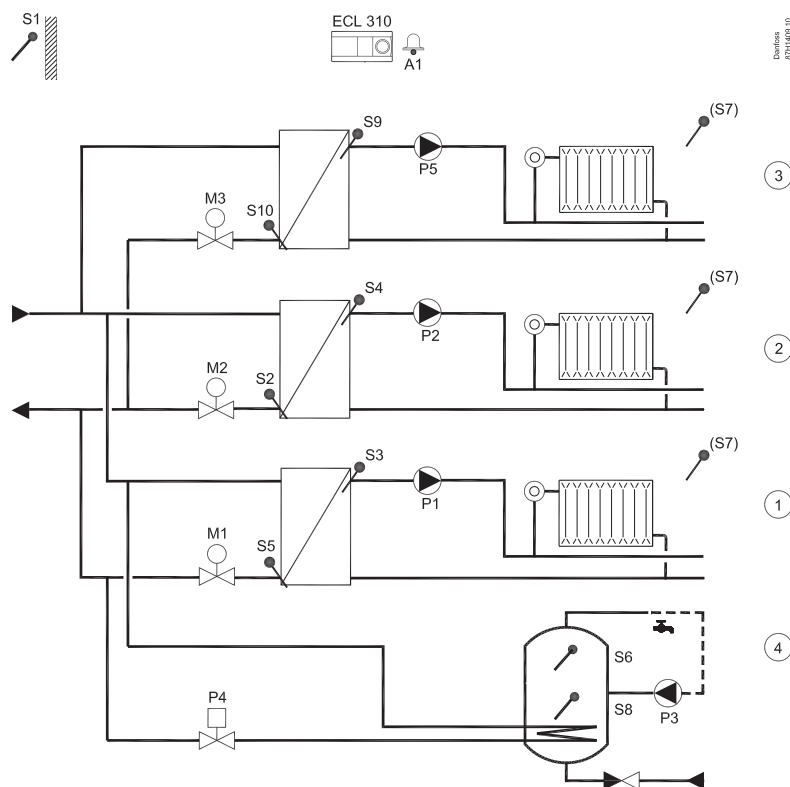


A390.11, ex. d:



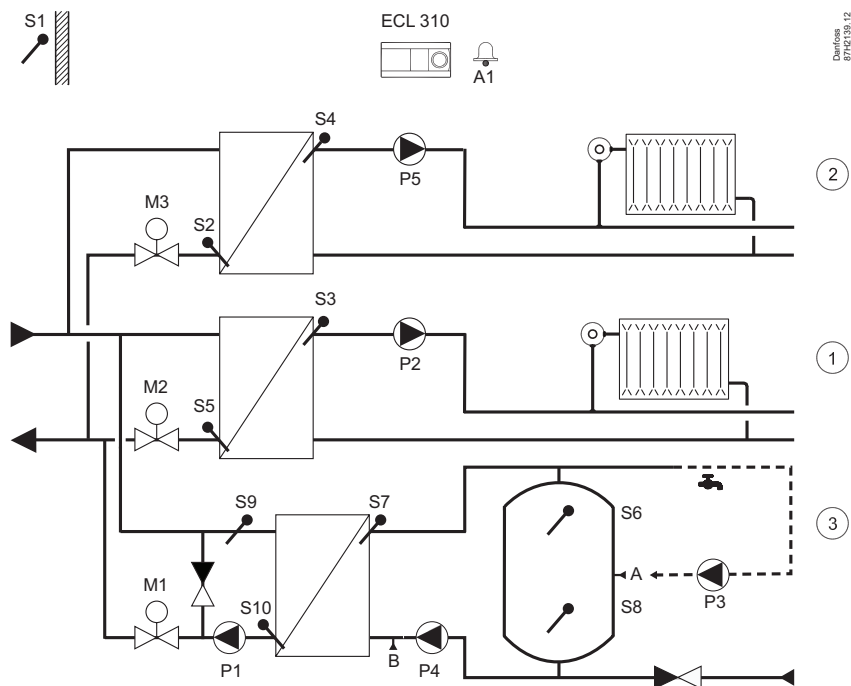
M1, M2, M3 = 3-point / 0 - 10 V

A390.11, ex. e:



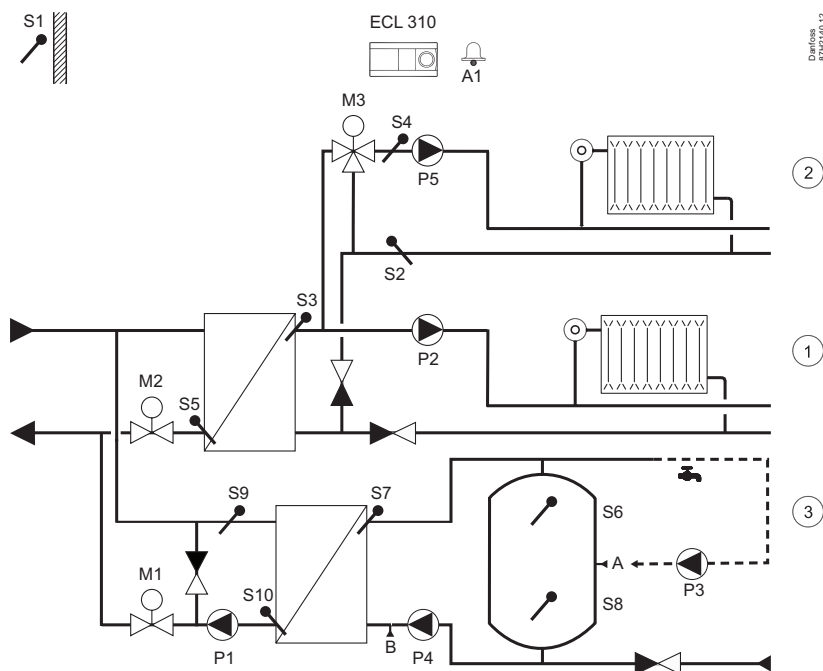
M1, M2, M3 = 3-point / 0 - 10 V

A390.12, ex. a:



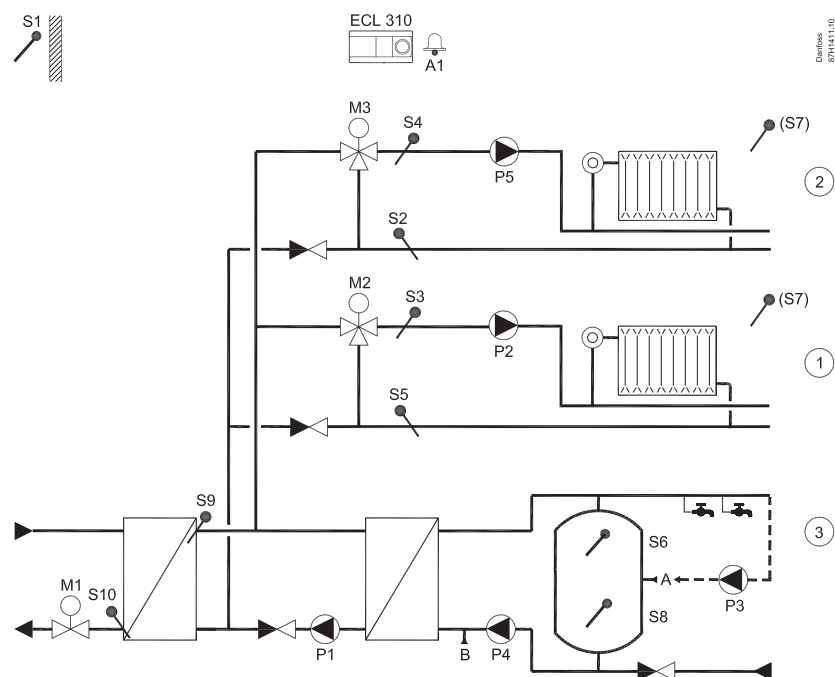
M1, M2, M3 = 3-point / 0 - 10 V

A390.12, ex. b:



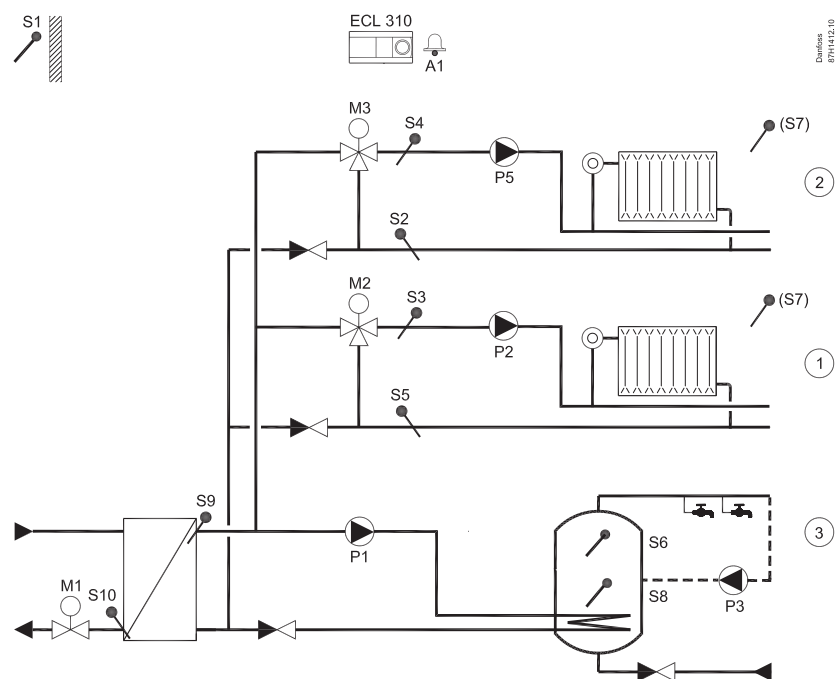
M1, M2, M3 = 3-point / 0 - 10 V

A390.13, ex. a:



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

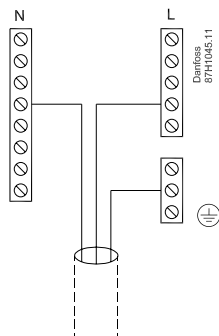
A390.13, ex. b:



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

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

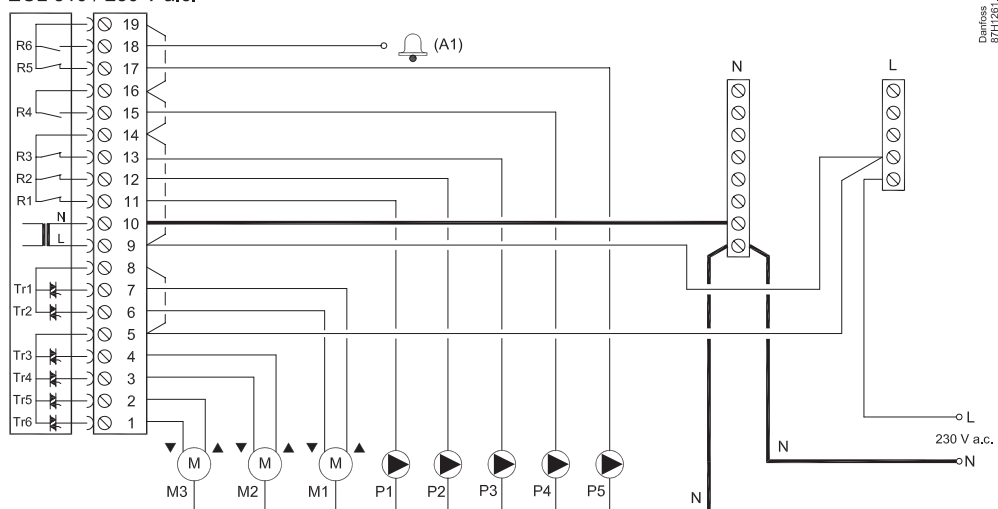
R		4 (2) A / 230 V a.c.
R		
Tr		0,2 A / 230 V a.c.



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.

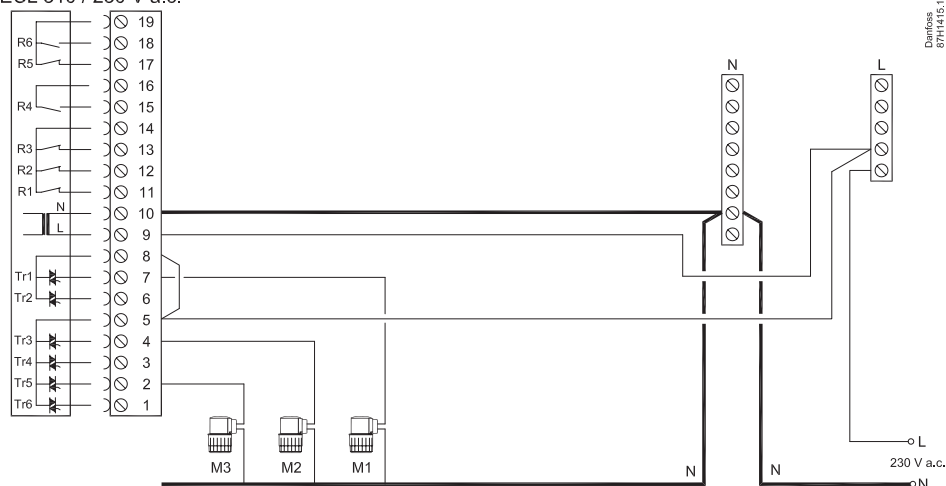


Installation Guide, ECL Comfort 310, A390

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

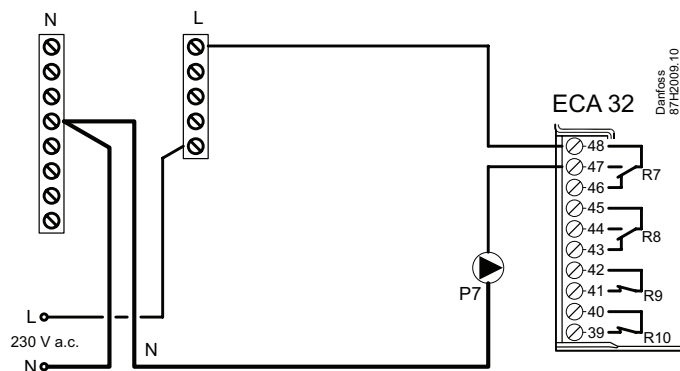
	Danfoss type ABV:		
	M1	M2	M3
A390.1	✓	✓	✓
A390.2			
A390.3	✓	✓	✓
A390.11	✓	✓	✓
A390.12		✓	✓
A390.13		✓	✓

ECL 310 / 230 V a.c.



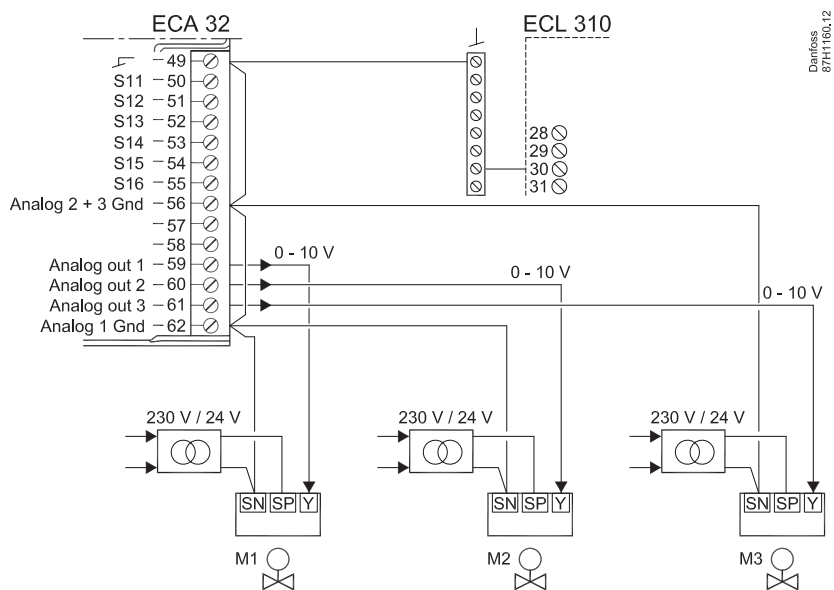
A390, ECA 32

	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	✓	✓	✓

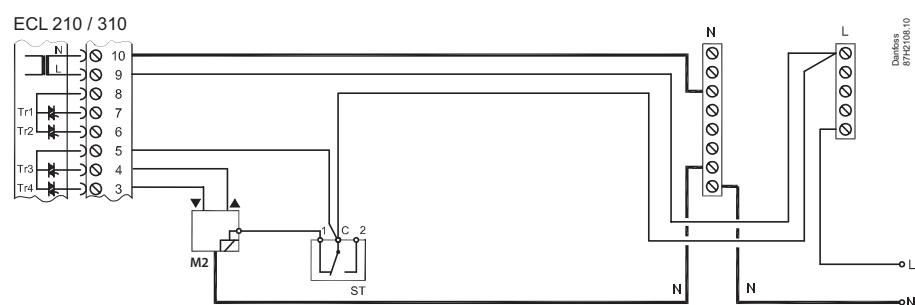
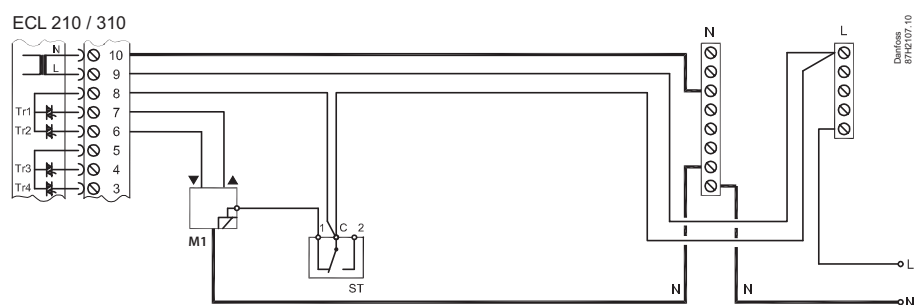
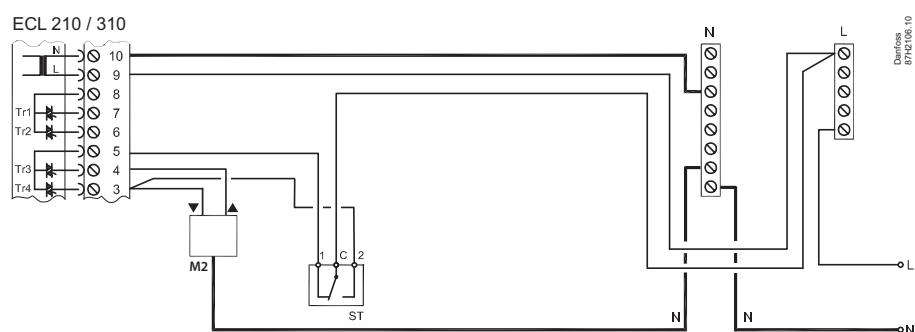
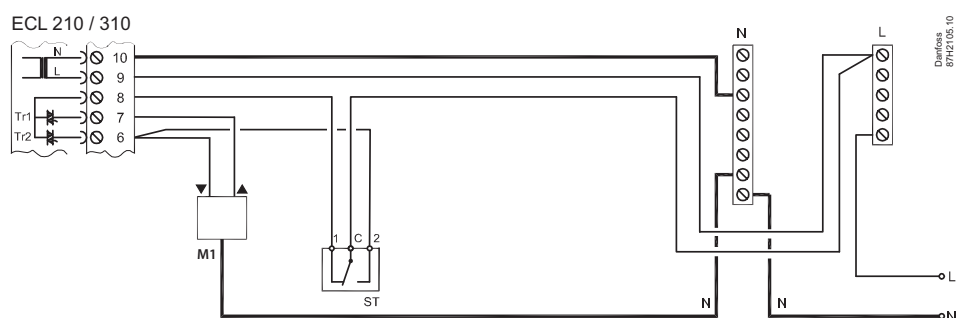


Danfoss
87H1160.12

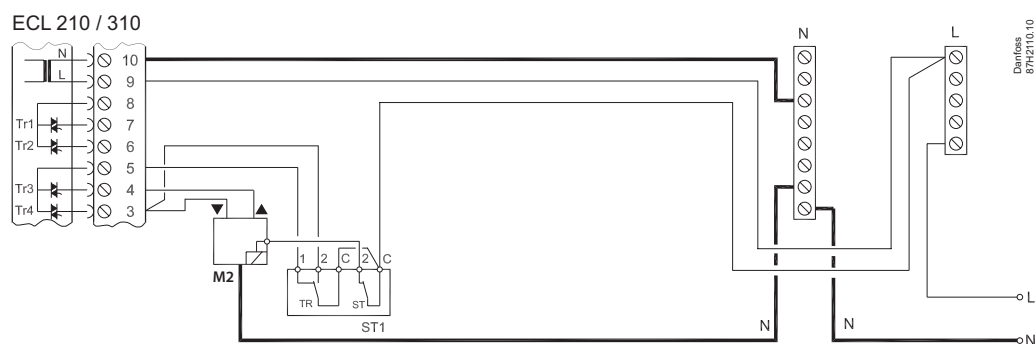
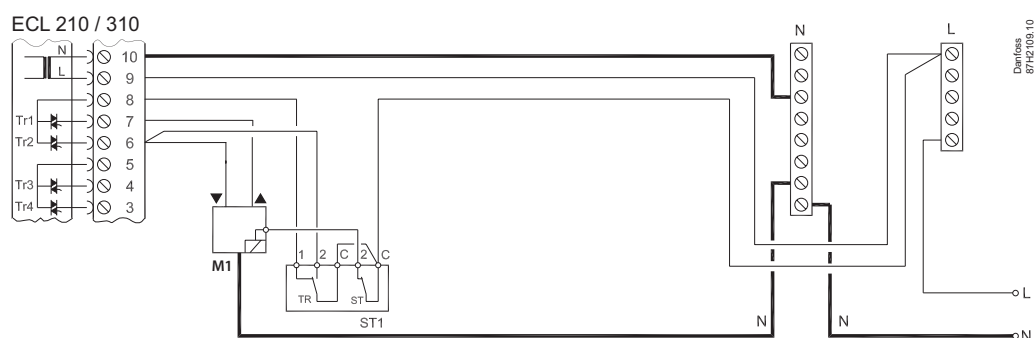
Installation Guide, ECL Comfort 310, A390

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

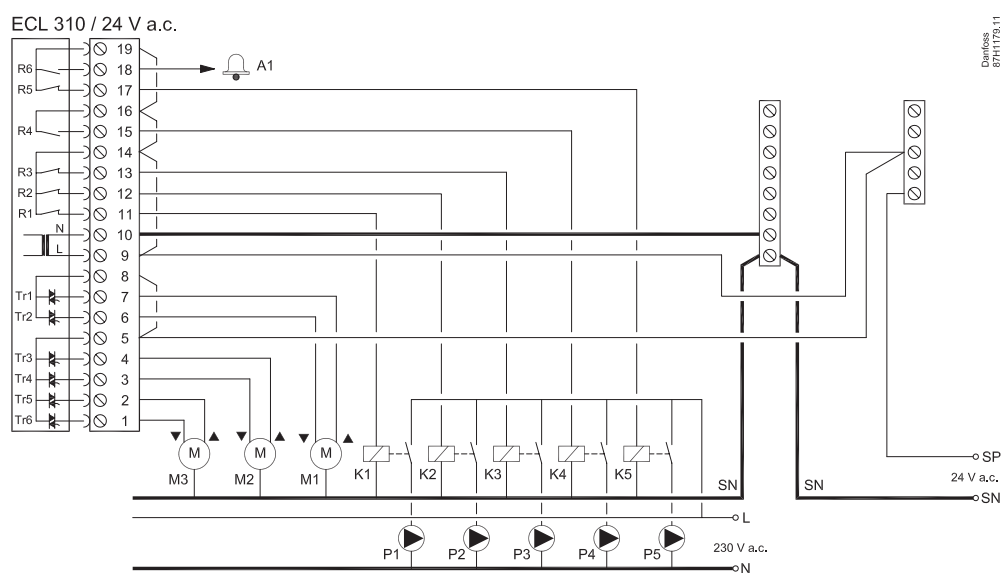
ECL Comfort 310:

24 V a.c.

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

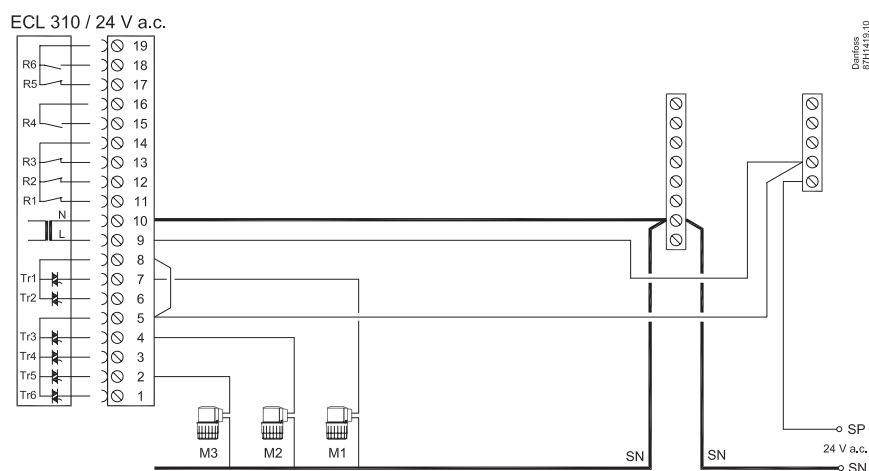
24 V a.c., A390 (ECL 310)

	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



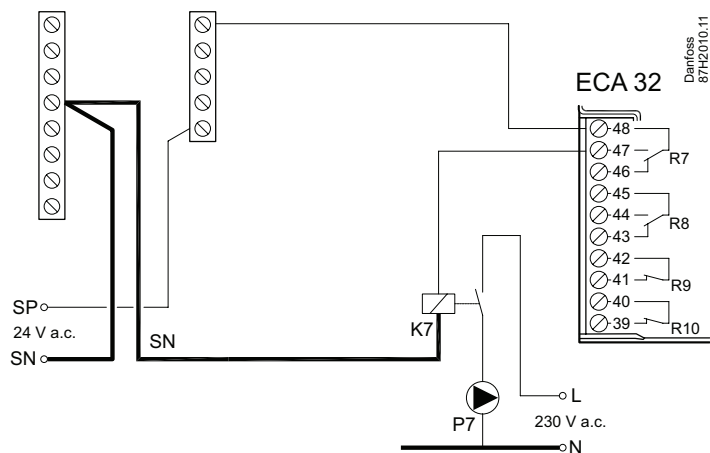
24 V a.c., A390 (ECL 310) Danfoss ABV

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



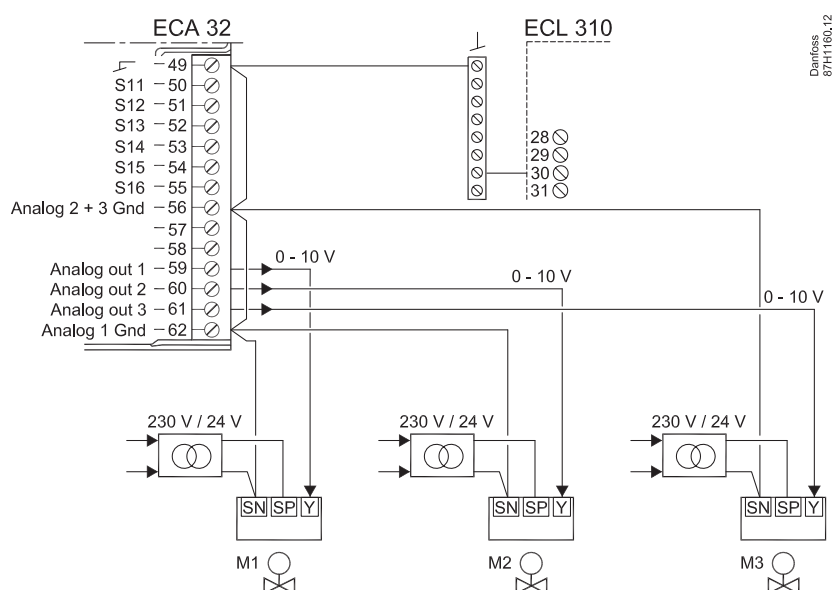
24 V a.c., A390, ECA 32

	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	✓	✓	✓

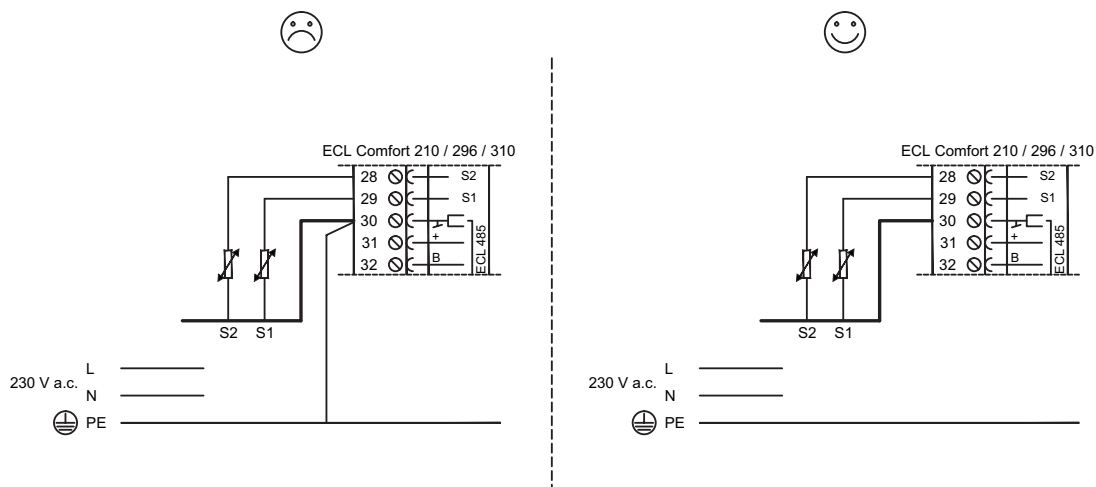


Danfoss
87H1160.12

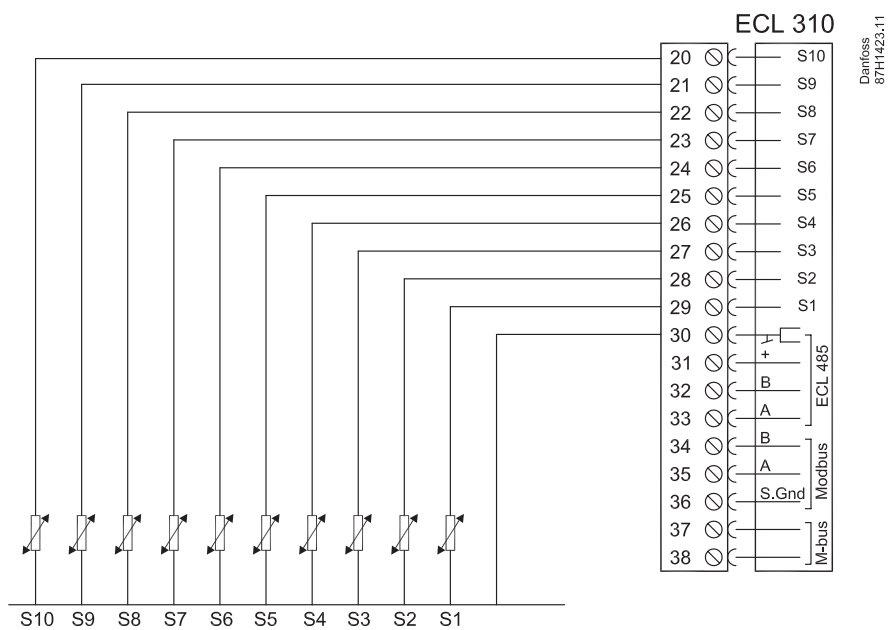
Installation Guide, ECL Comfort 310, A390

A390 (ECL 310)

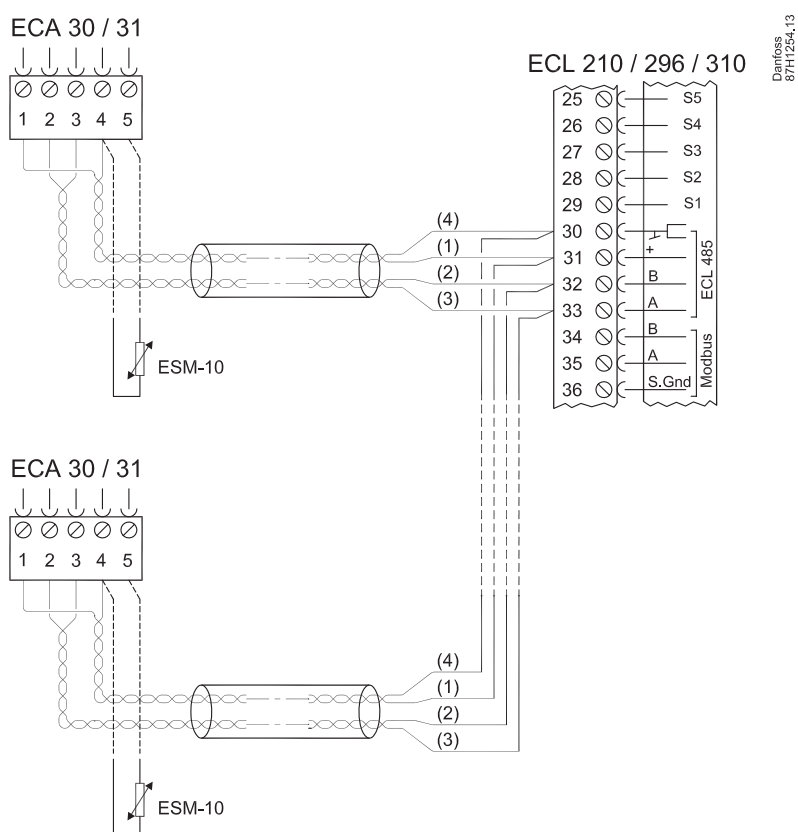
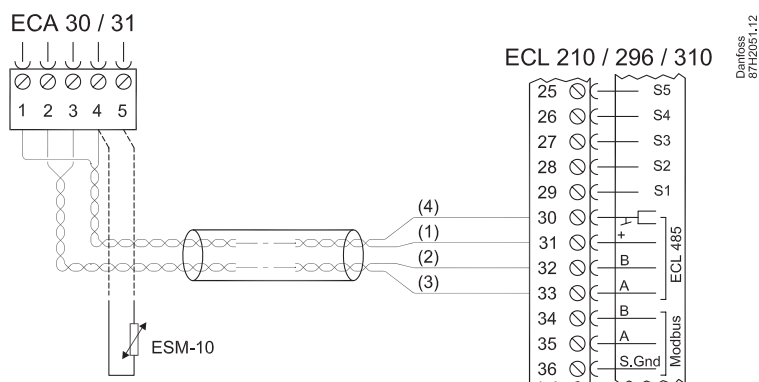
 **Pt 1000** (1000 Ω / 0 °C)



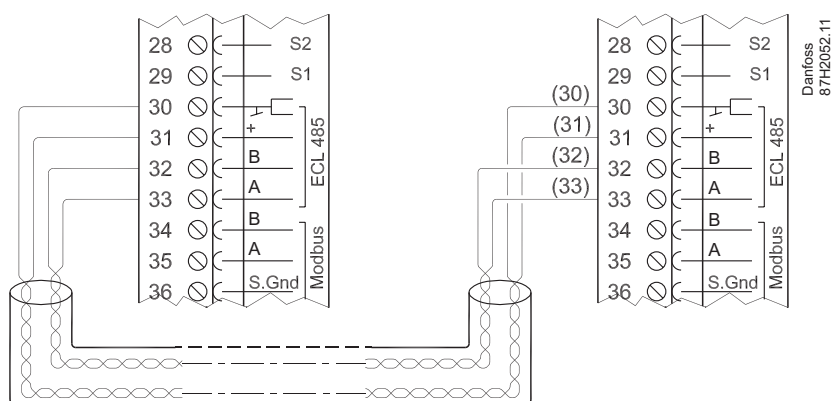
Danfoss
87H1487.11



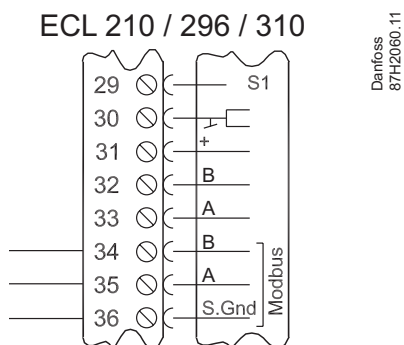
ECA 30 / 31



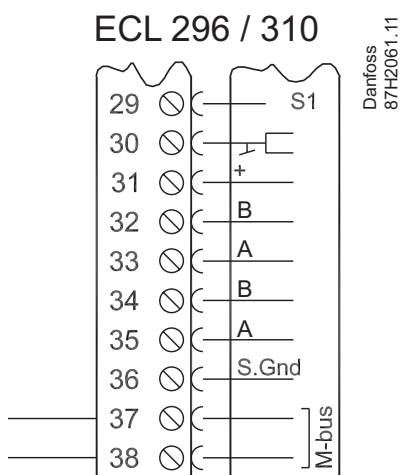
Master / slave



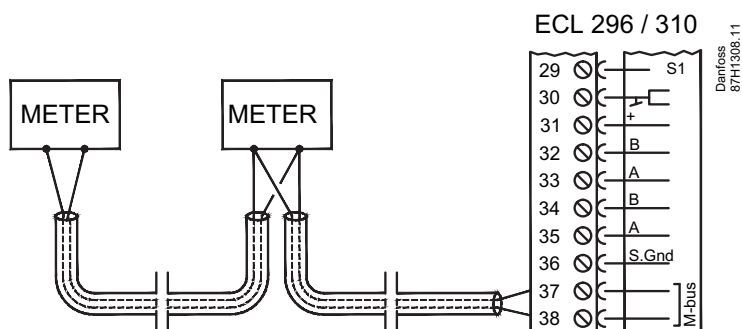
Modbus



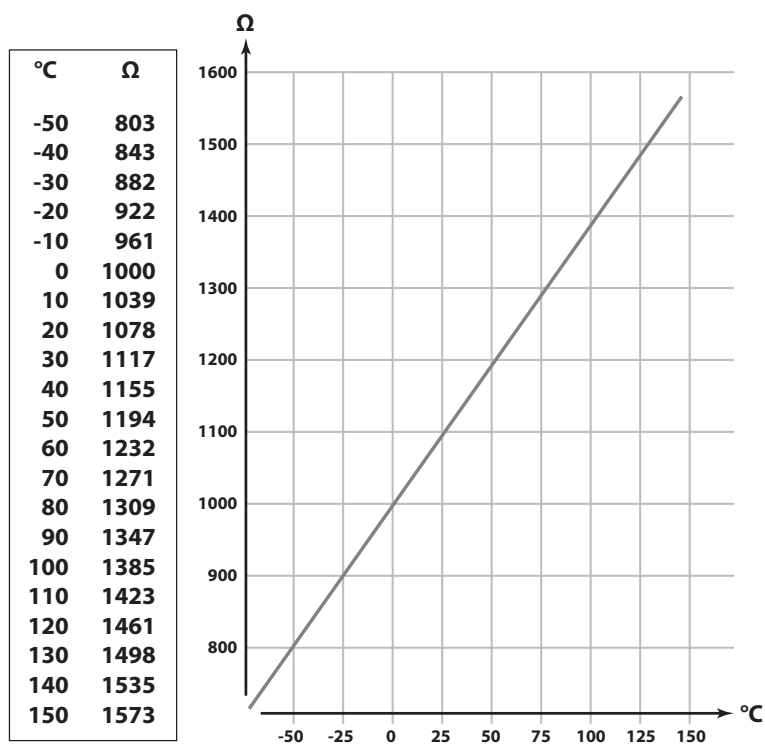
M-bus



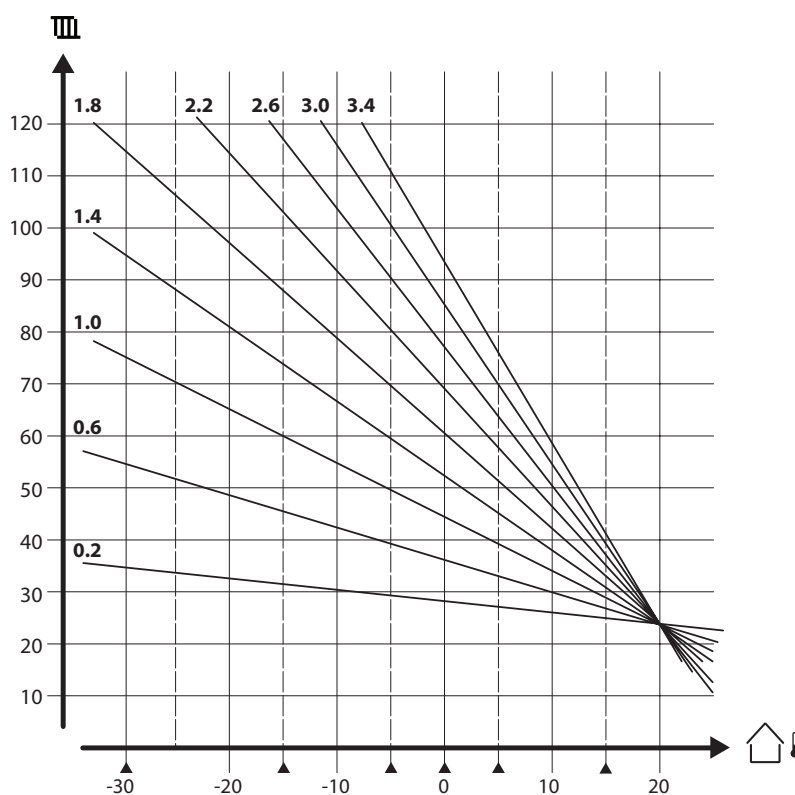
M-bus



Pt 1000 (IEC 751B, 1000 Ω / 0 °C)

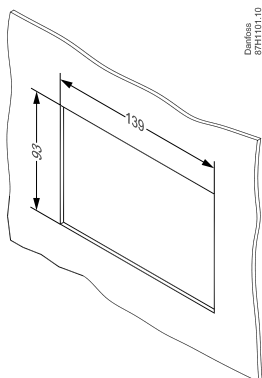


Heat curves

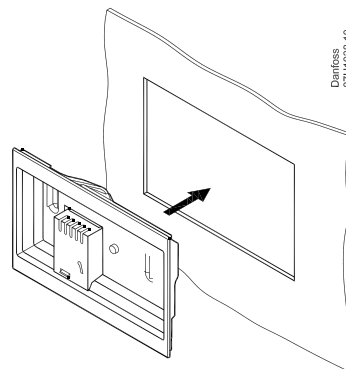


ECA 30

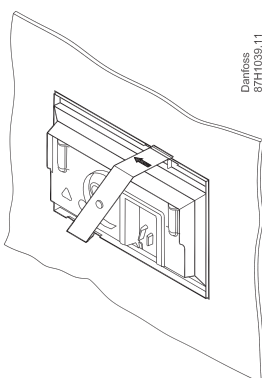
1



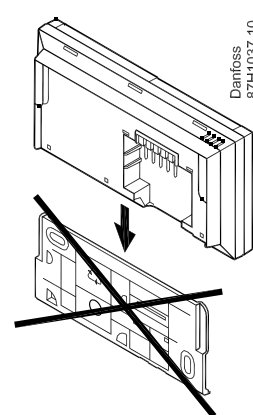
2



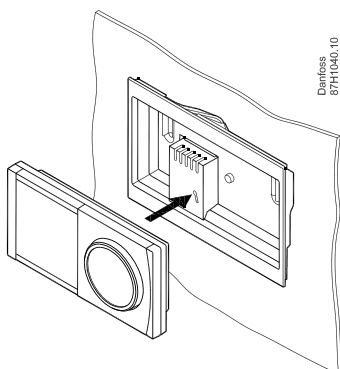
3



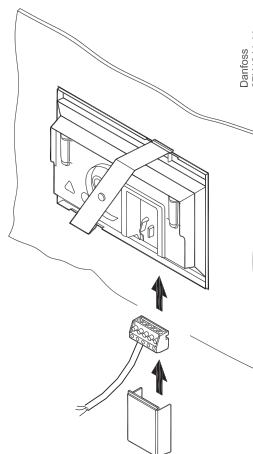
4



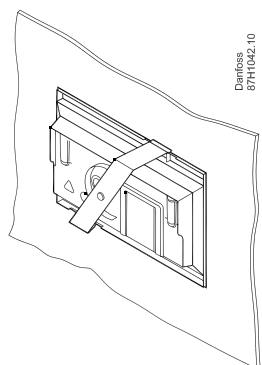
5



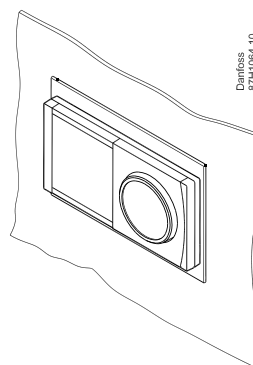
6



7

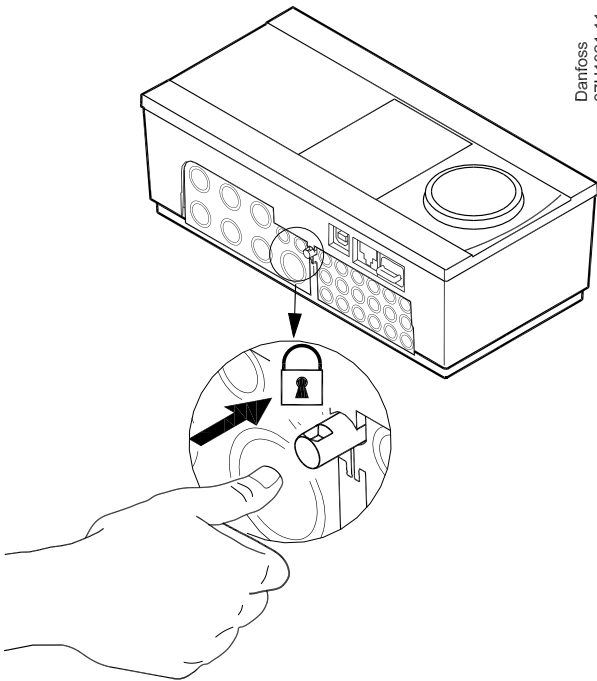


8

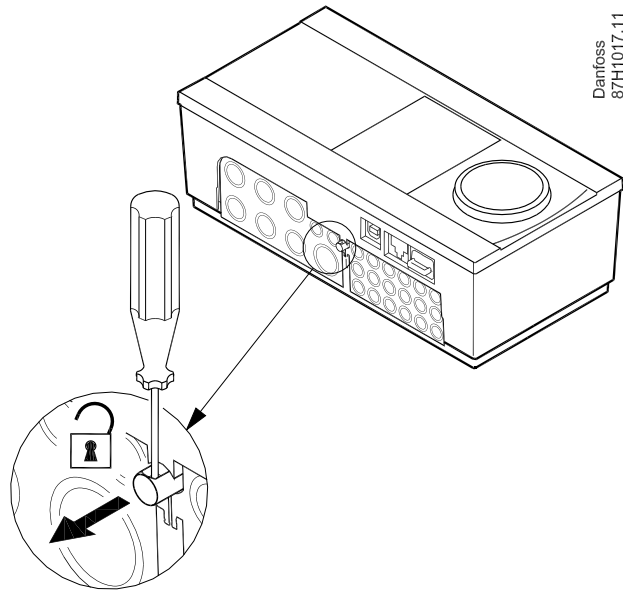


Installation Guide, ECL Comfort 310, A390

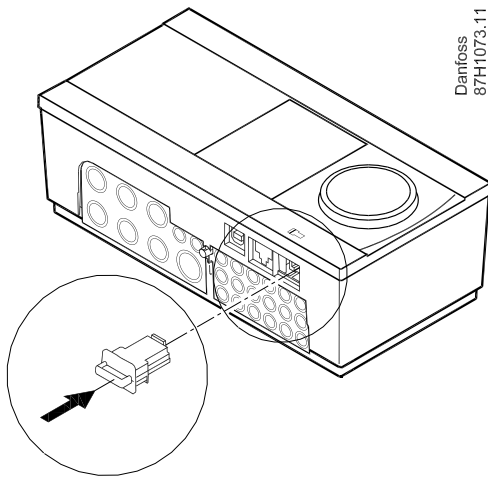
Danfoss
87H1021.11



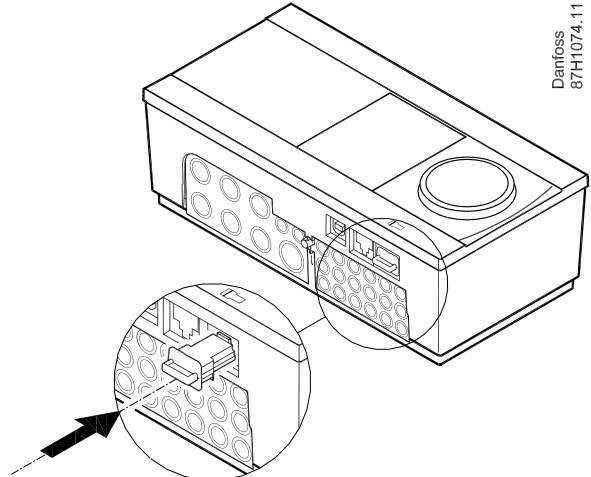
Danfoss
87H1017.11



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



Danfoss A/S

Heating Segment • danfoss.com • +45 7488 2222 • E-Mail: heating@danfoss.com

Danfoss can accept no responsibility for possible errors in catalogues, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without substantial changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and all Danfoss logotypes are trademarks of Danfoss A/S. All rights reserved.