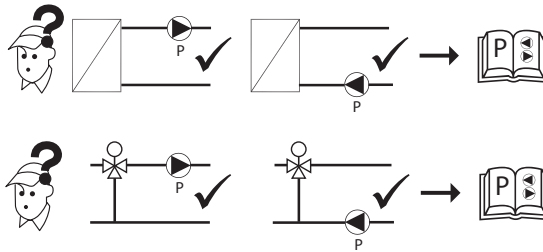
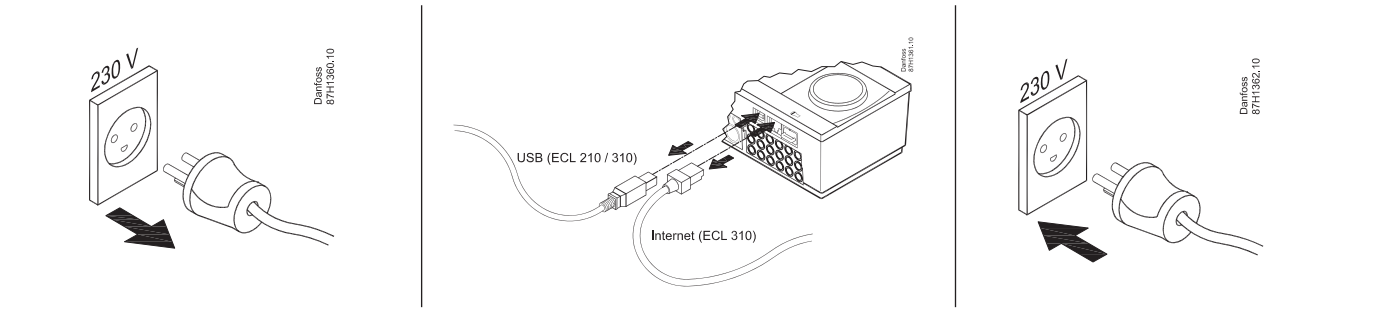


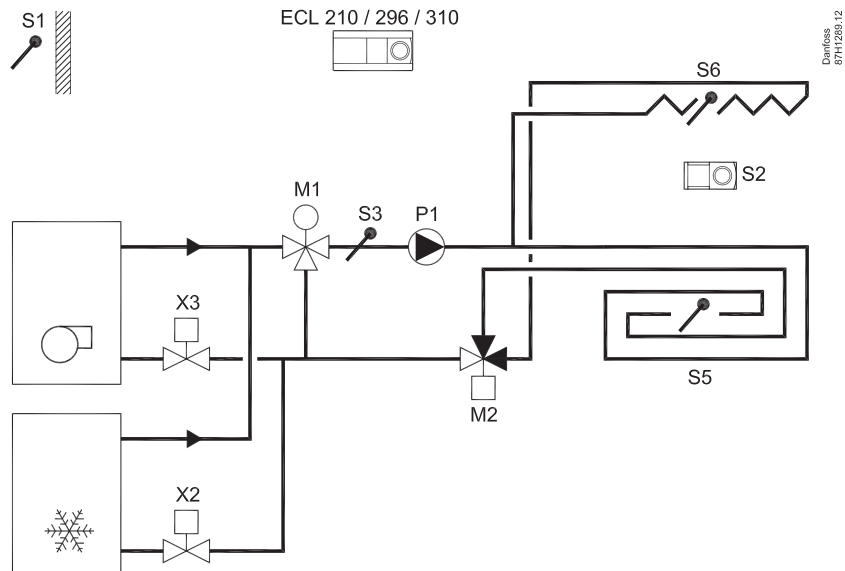
Installation Guide

# ECL Comfort 210 / 296 / 310, A232 / A332 (code no. 087H3812)

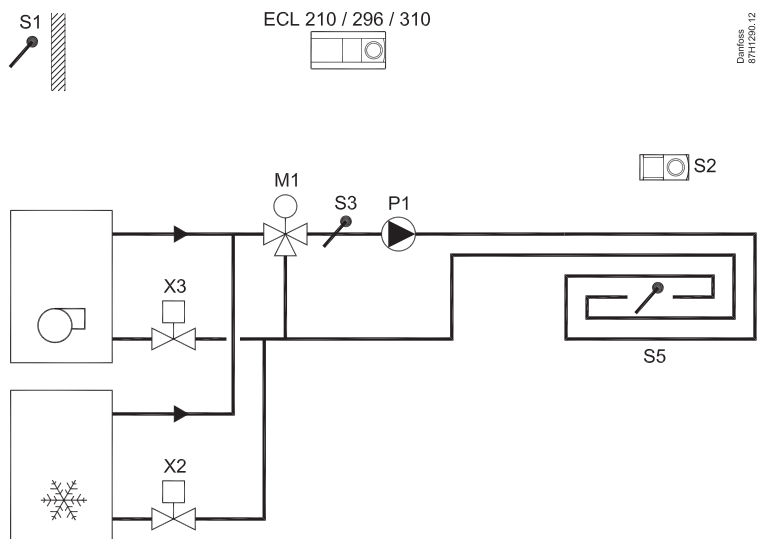
(A232.1, A332.1, A332.2, A332.3, A332.4)



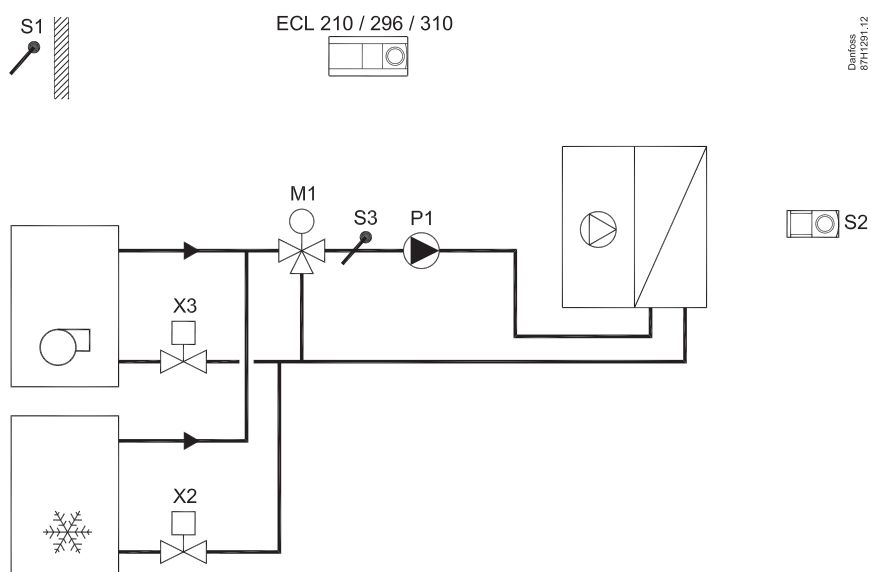
A232.1, ex. a



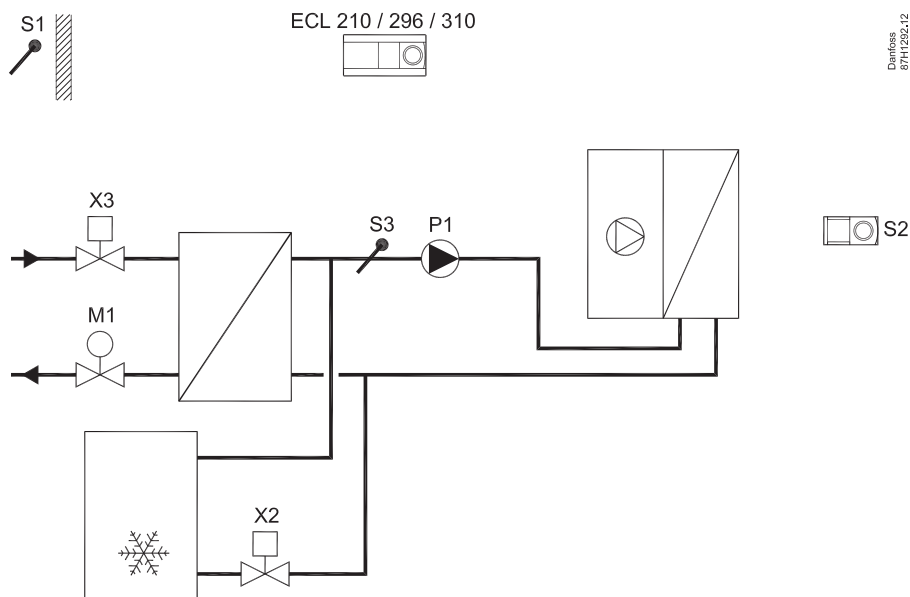
A232.1, ex. b



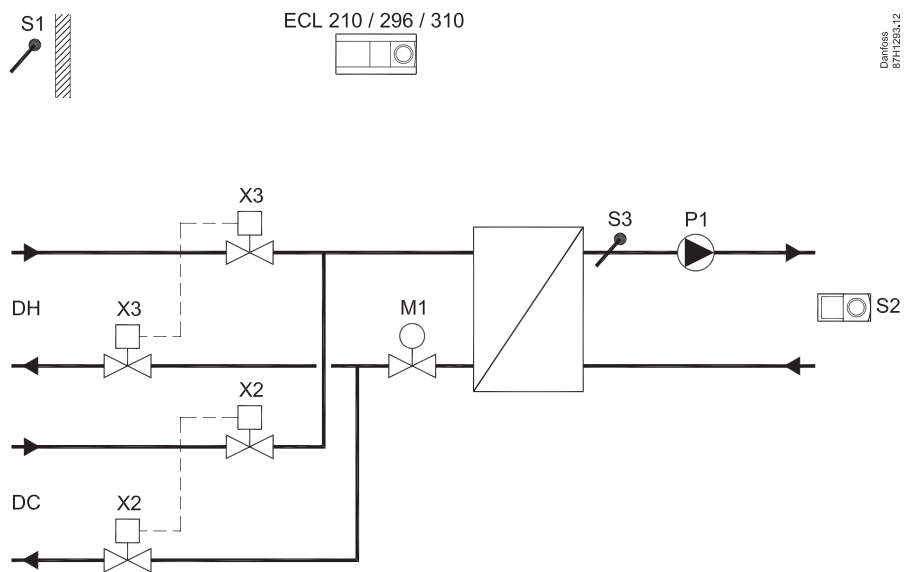
A232.1, ex. c



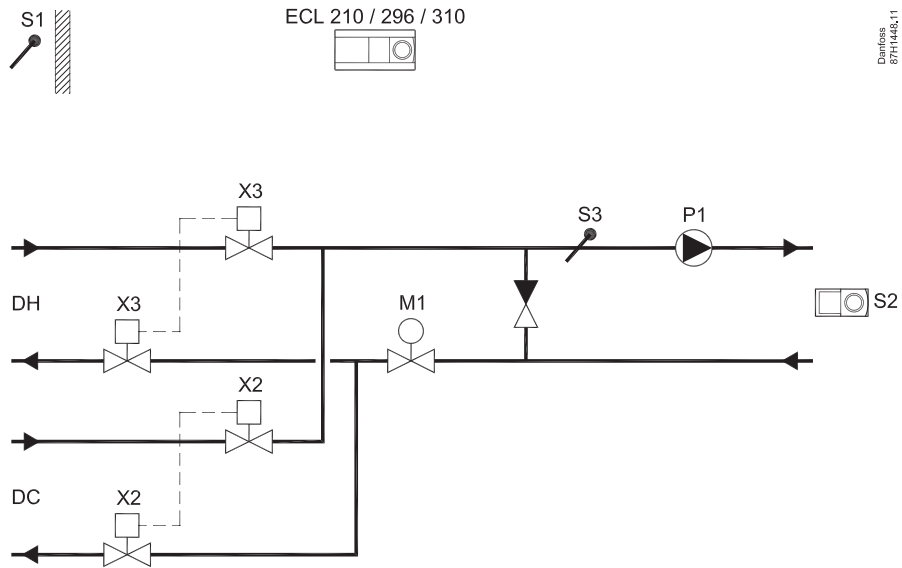
A232.1, ex. d



A232.1, ex. e

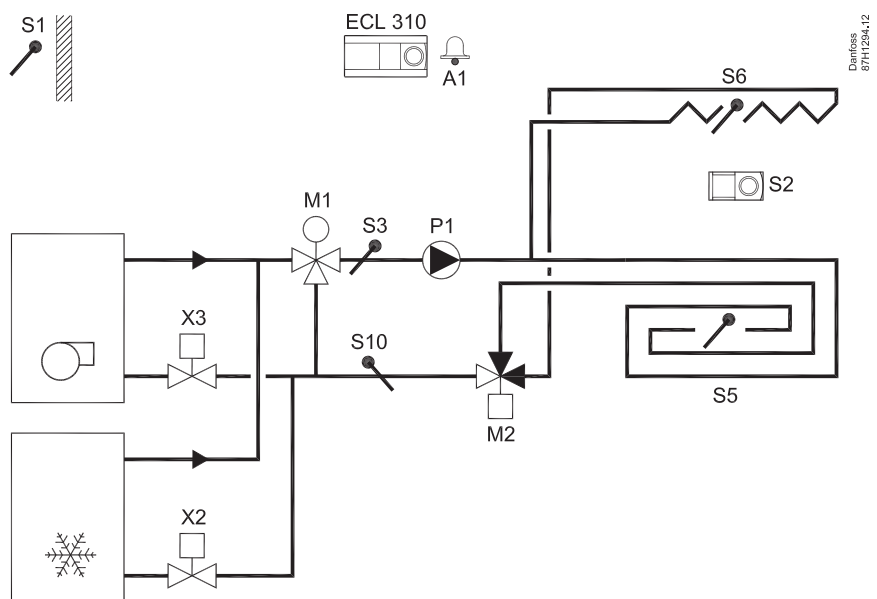


A232.1, ex. f



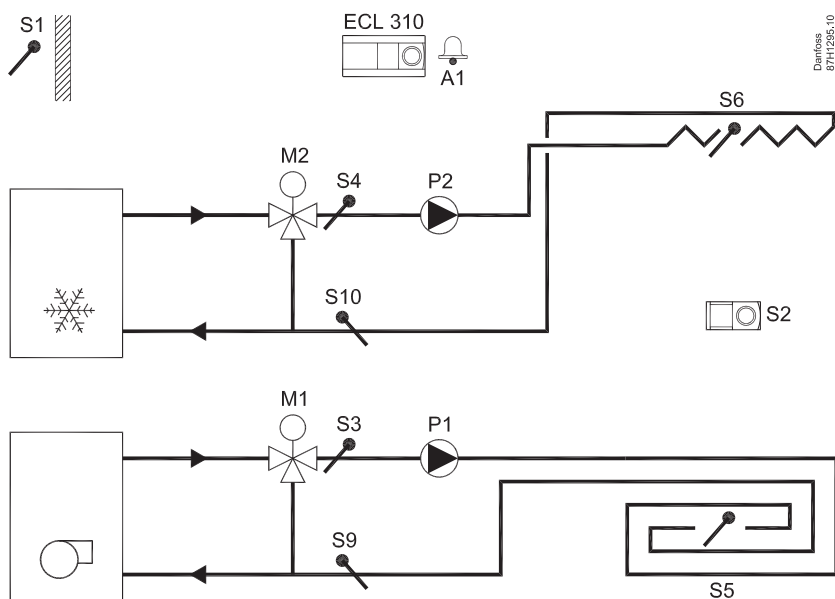
Danfoss  
87H1448.11

A332.1, ex. a

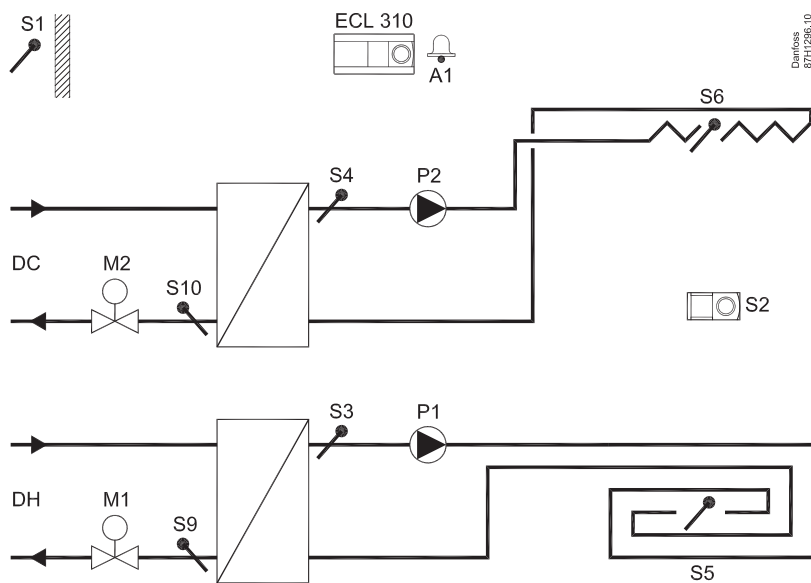


Danfoss  
87H1294.12

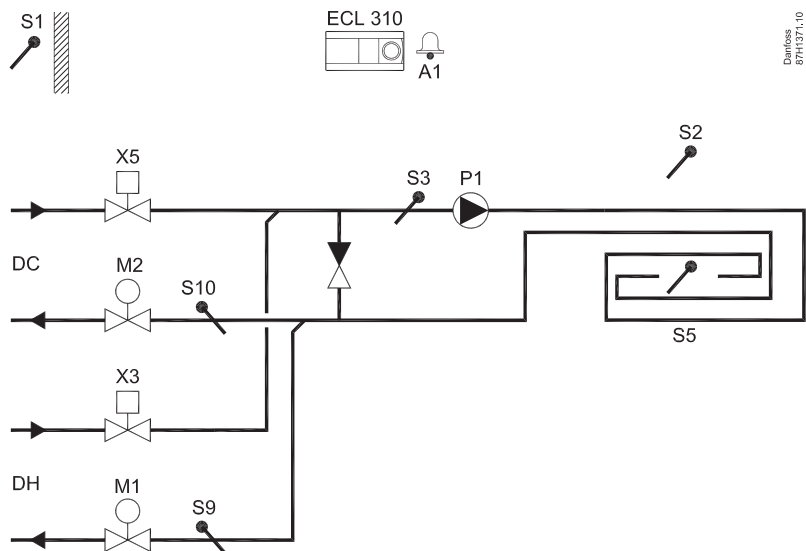
A332.2, ex. a



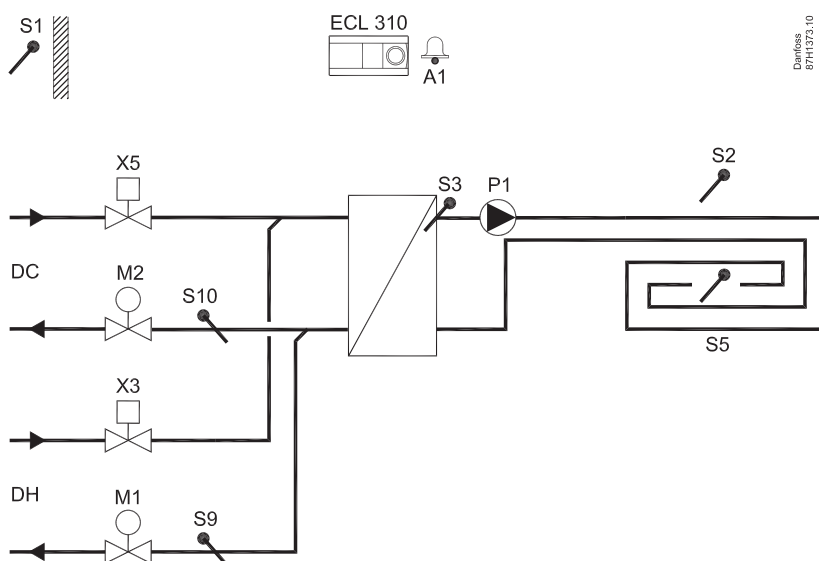
A332.2, ex. b



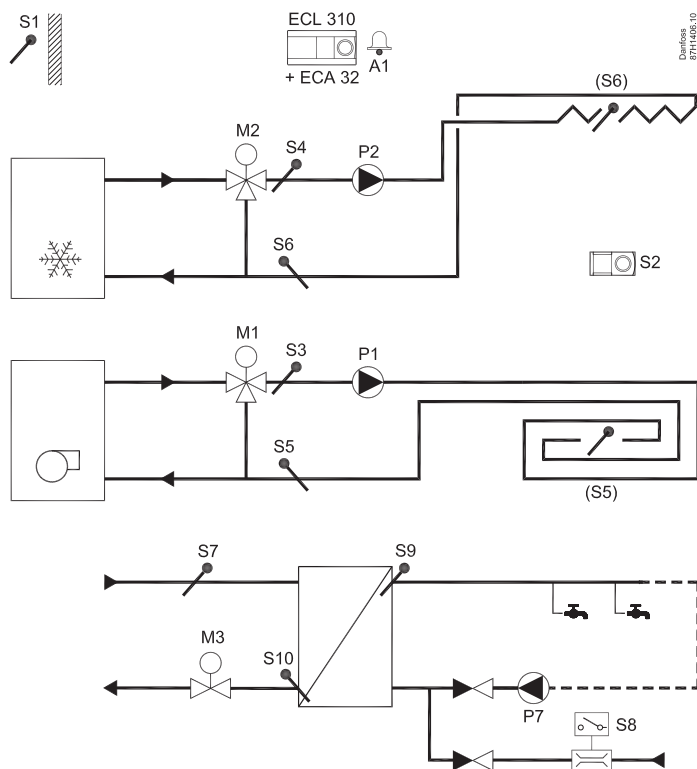
A332.2, ex. c



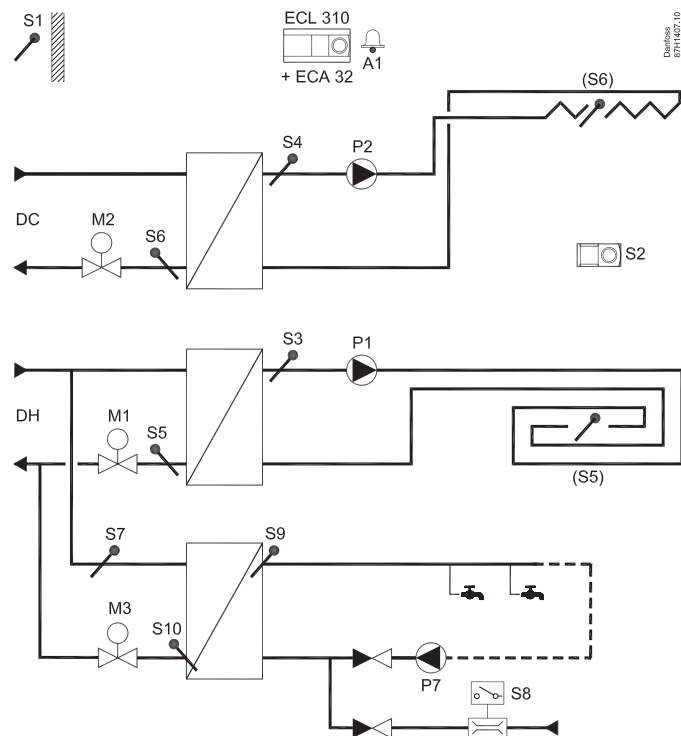
A332.2, ex. d



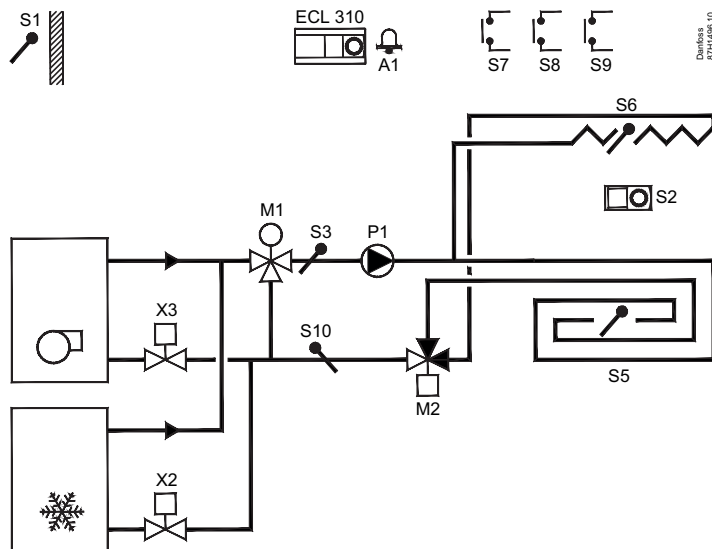
A332.3, ex. a



A332.3, ex. b



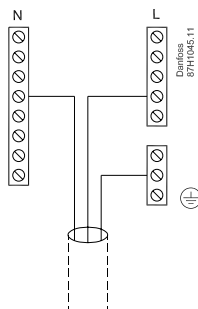
A332.4, ex. a



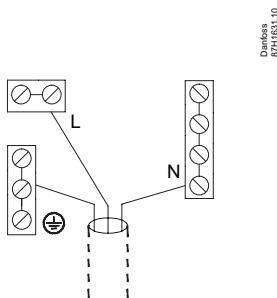
ECL Comfort 210 / 296 / 310:  
230 V a.c.

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

ECL 210 / 310



ECL 296





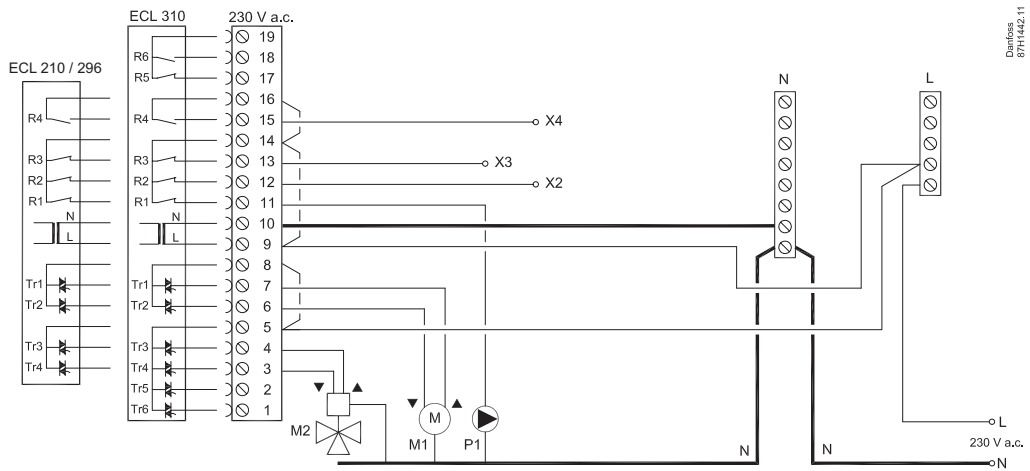
Installation Guide, ECL Comfort 210 / 296 / 310, A232 / A332

230 V a.c., A232.1 (ECL 210 / 296 / 310)

A332.1, A332.2, A332.3, A332.4 (ECL 310)

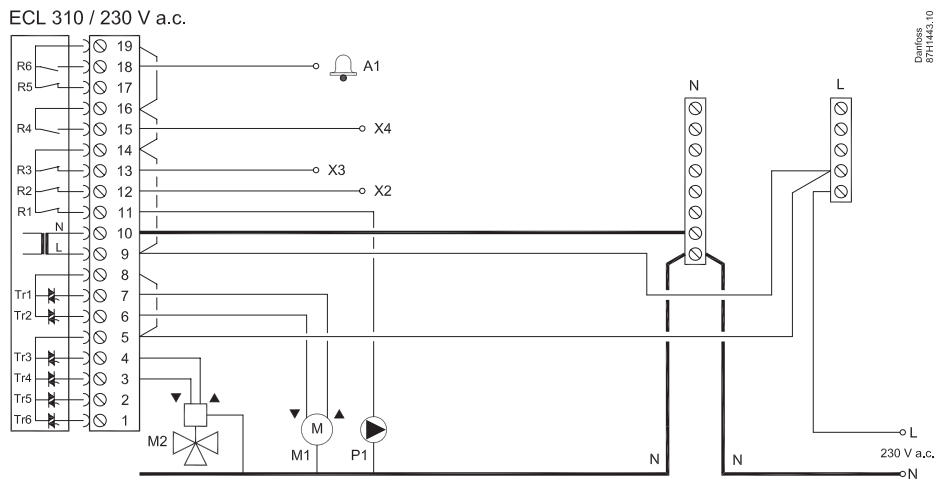
	M1	M2	M3		R1	R2	R3	R4	R5	R6
A232.1	✓	✓			P1	X2	X3	X4		
A332.1	✓	✓			P1	X2	X3	X4		A1
A332.2	✓	✓			P1	P2	X3	X4	X5	A1
A332.3	✓	✓	✓		P1	P2	X3	X4	X5	A1
A332.4	✓	✓			P1	X2	X3	X4		A1

230 V a.c., A232.1 (ECL 210 / 296 / 310)

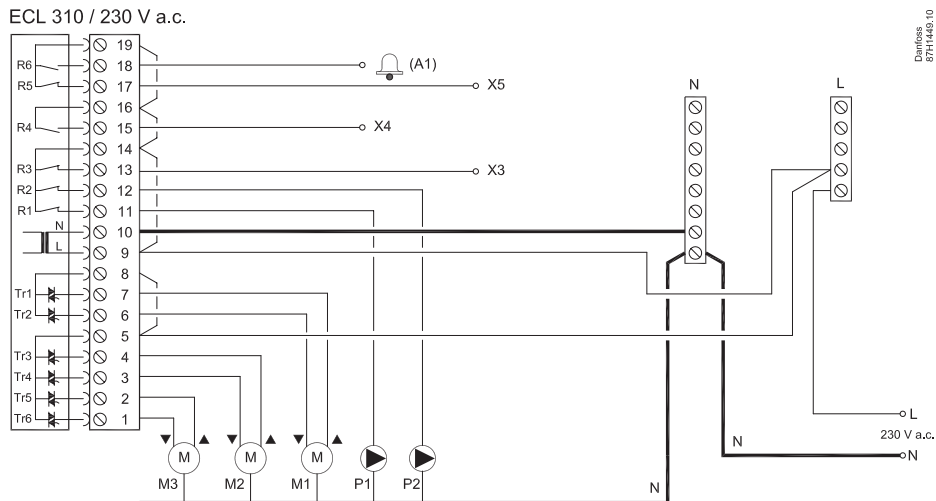


# Installation Guide, ECL Comfort 210 / 296 / 310, A332 / A332

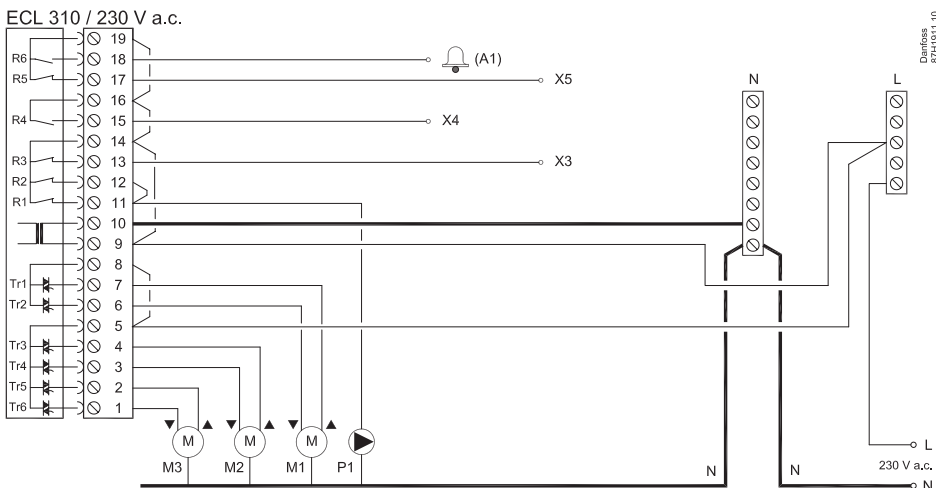
## 230 V a.c., A332.1, A332.4 (ECL 310)



## 230 V a.c., A332.2, A332.3 (ECL 310)

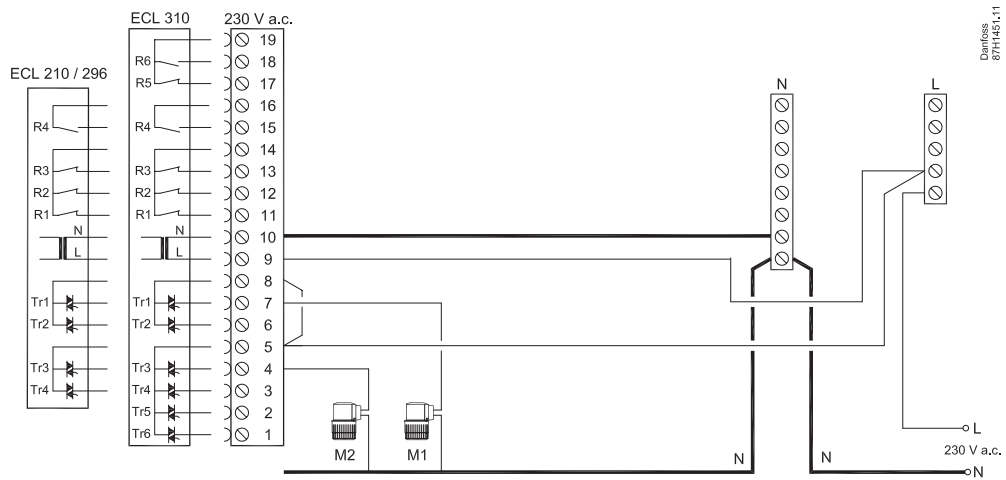


## 230 V a.c., A332.2 ex. c, A332.2 ex. d P1

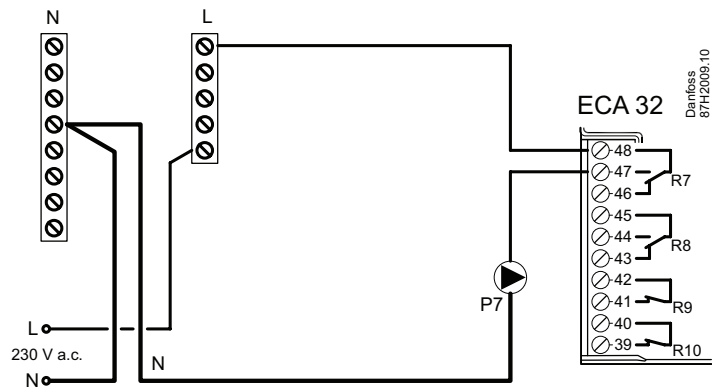


230 V a.c., A232 Danfoss ABV

Danfoss type ABV:			
	M1	M2	M3
A232.1	✓		
A332.1	✓		
A332.2	✓	✓	
A332.3	✓	✓	
A332.4	✓		

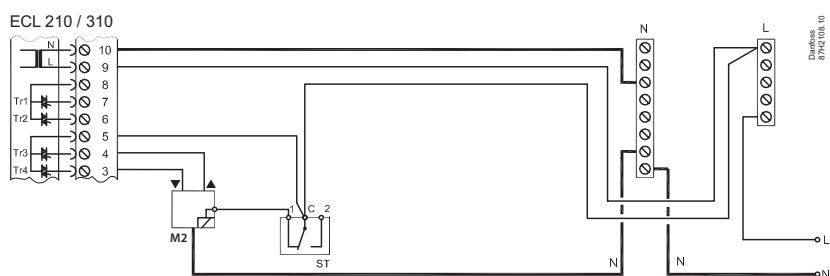
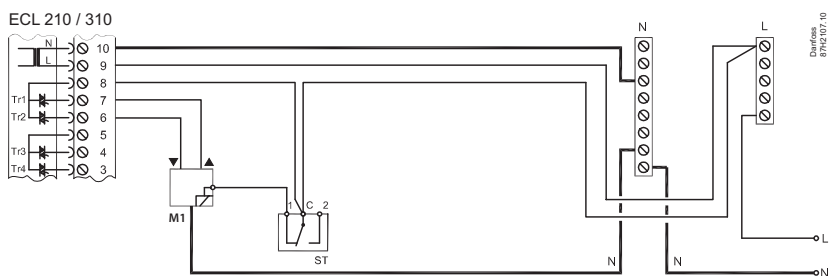
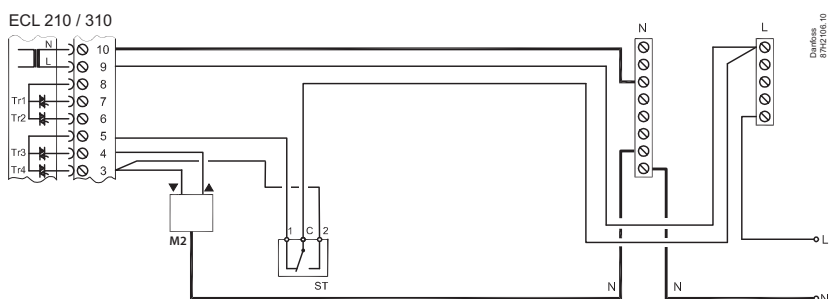
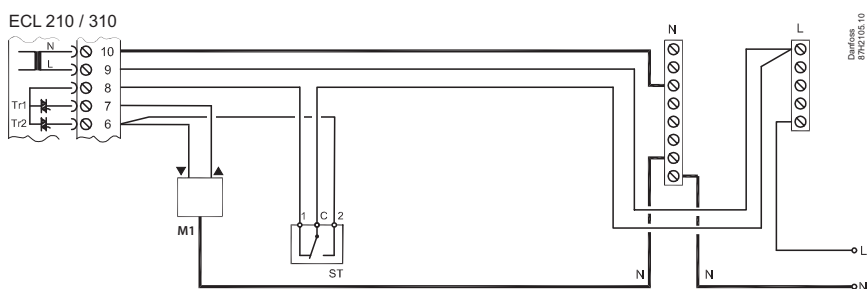


230 V a.c., A332.3, ECA 32, P7

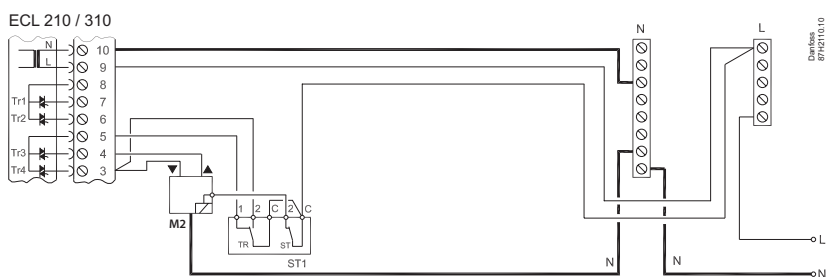
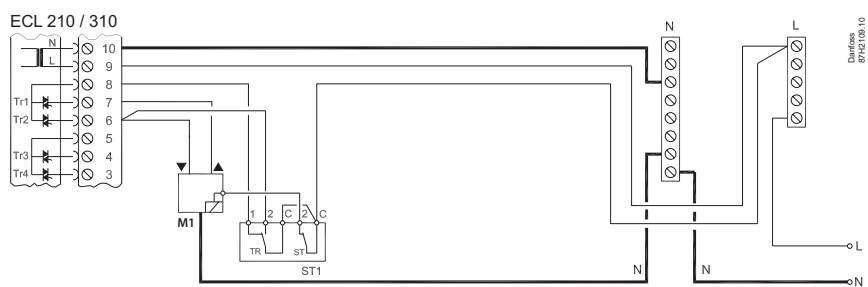


230 V a.c. / 24 V a.c. safety thermostat

1-step closing



**230 V a.c. / 24 V a.c. safety thermostat  
2-step closing**



**ECL Comfort 310:**

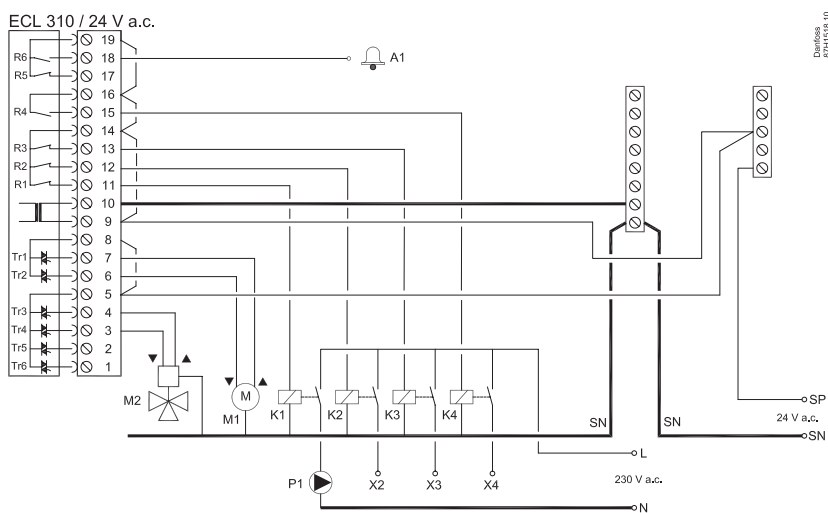
24 V a.c.

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

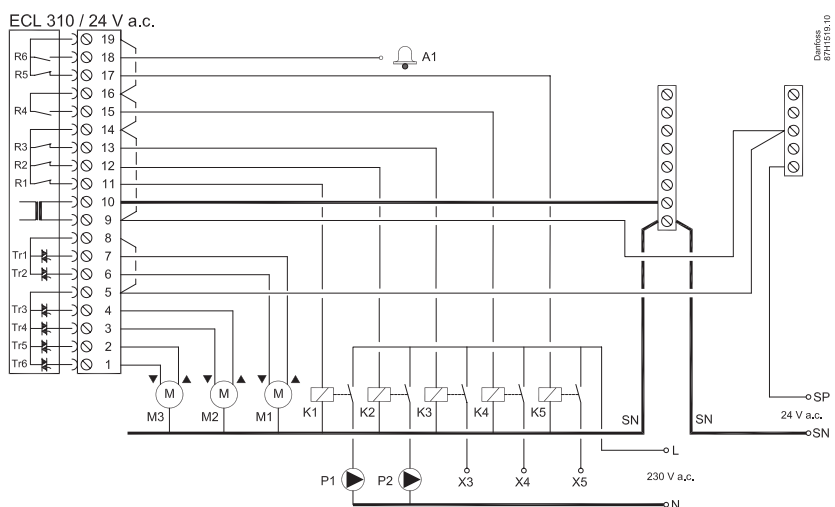
24 V a.c., A232.1, A332.1, A332.2, A332.3, A332.4 (ECL 310)

	M1	M2	M3		R1	R2	R3	R4	R5	R6
A232.1	✓	✓			P1	X2	X3	X4		
A332.1	✓	✓			P1	X2	X3	X4		A1
A332.2	✓	✓			P1	P2	X3	X4	X5	A1
A332.3	✓	✓	✓		P1	P2	X3	X4	X5	A1
A332.4	✓	✓			P1	X2	X3	X4		A1

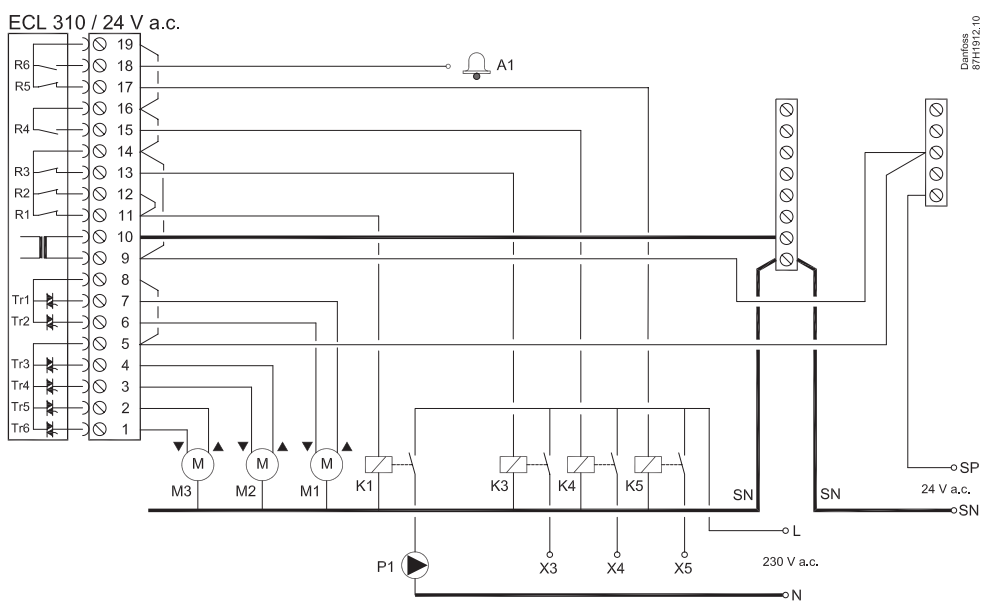
24 V a.c., A232.1, A332.1, A332.4 (ECL 310)



24 V a.c., A332.2, A332.3 (ECL 310)

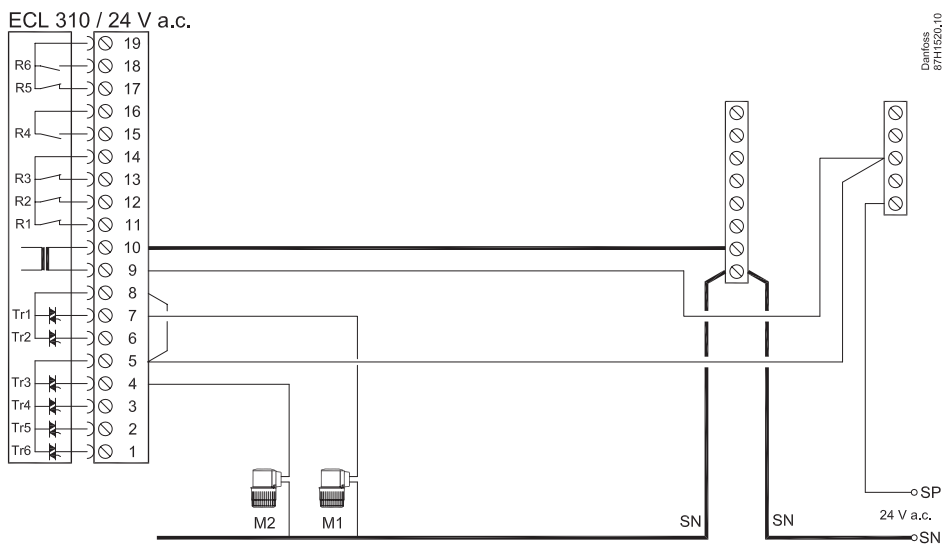


24 V a.c., A332.2 ex. c, A332.2 ex. d  
P1

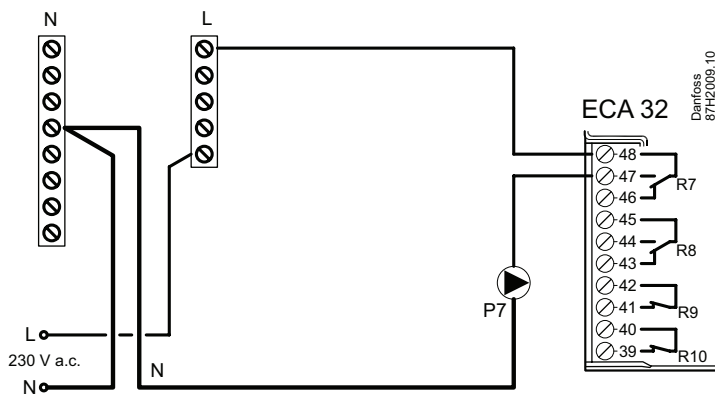


24 V a.c., A232, Danfoss ABV

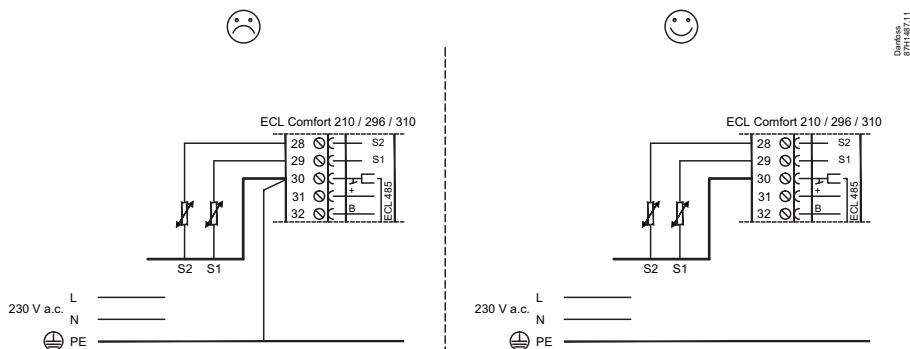
Danfoss type ABV:			
	M1	M2	M3
A232.1	✓		
A332.1	✓		
A332.2	✓	✓	
A332.3	✓	✓	
A332.4	✓		



24 V a.c., A332.3, ECA 32, P7



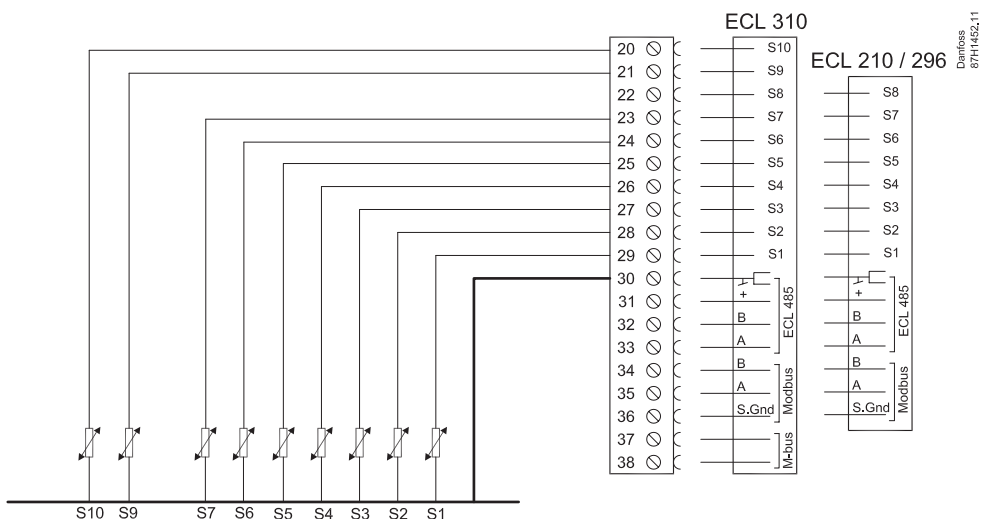
Pt 1000 (1000 Ω / 0 °C)



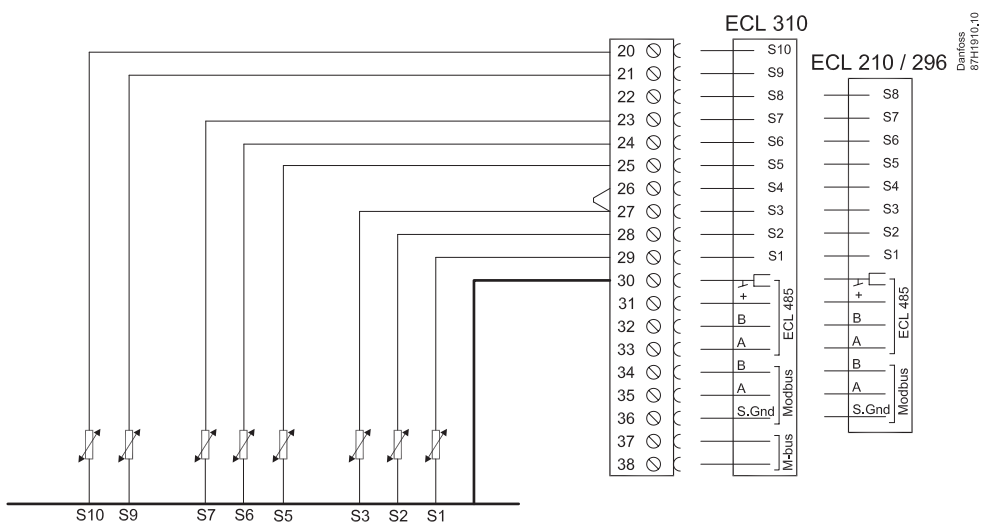


**Pt 1000** (1000 Ω / 0 °C)

	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10
<b>A232.1</b>	✓	✓	✓		✓	✓				
<b>A332.1</b>	✓	✓	✓		✓	✓				✓
<b>A332.2</b>	✓	✓	✓	✓	✓	✓			✓	✓
<b>A332.3</b>	✓	✓	✓	✓	✓	✓	✓		✓	✓
<b>A332.4</b>	✓	✓	✓		✓	✓				✓



**A332.2 ex. c, A332.2 ex. d**  
**S3**

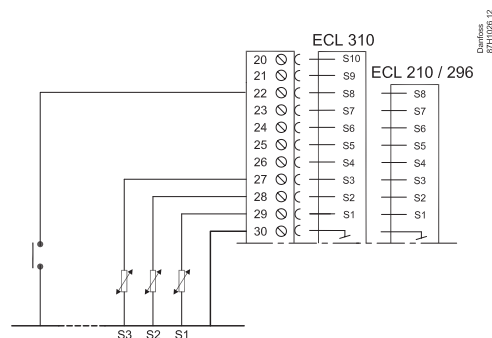
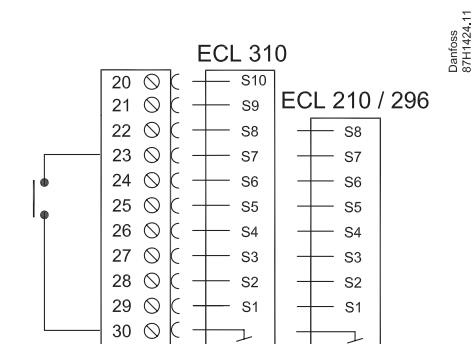


A232.1, A332.1, A332.2, A332.3, A332.4

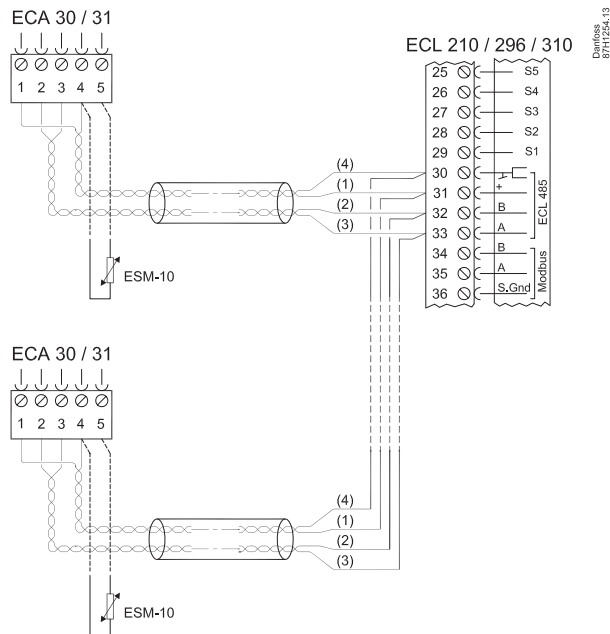
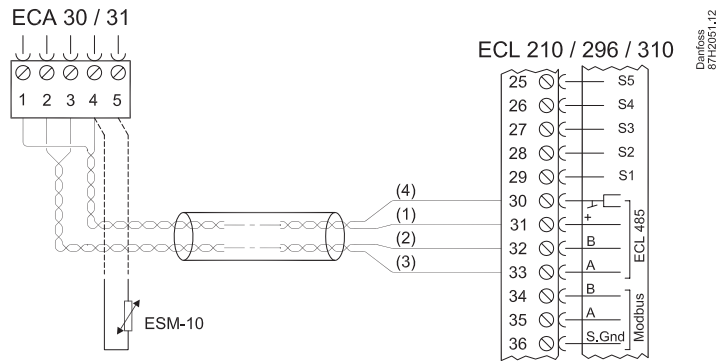


S7, S8, S9

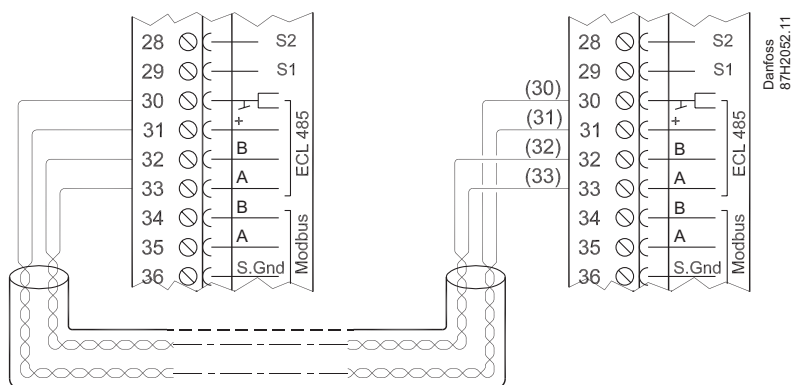
	S7	S8	S9
A232.1	✓	✓	
A332.1	✓	✓	
A332.2	✓	✓	
A332.3		✓	
A332.4	✓	✓	✓



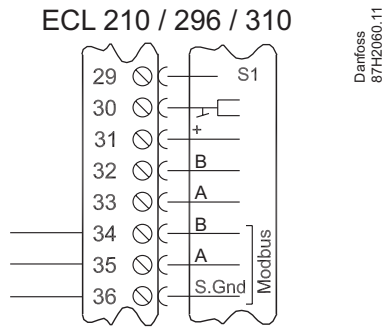
ECA 30 / 31



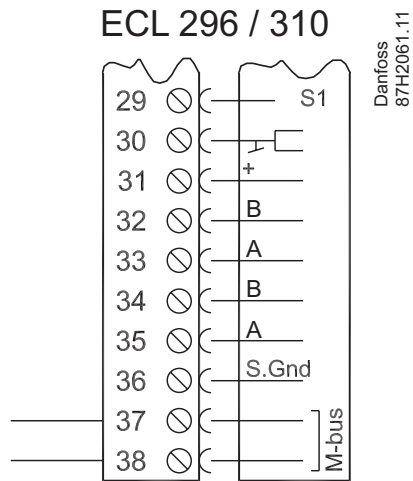
Master / slave



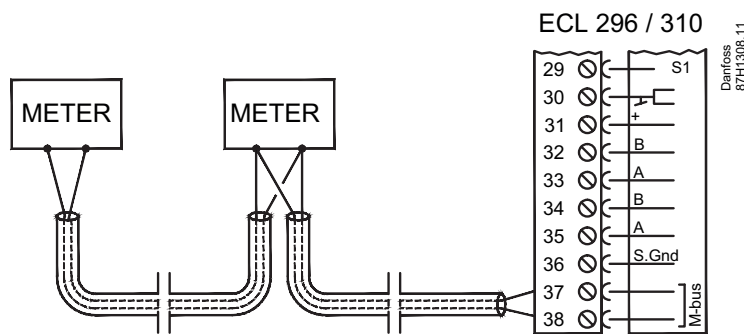
**Modbus**



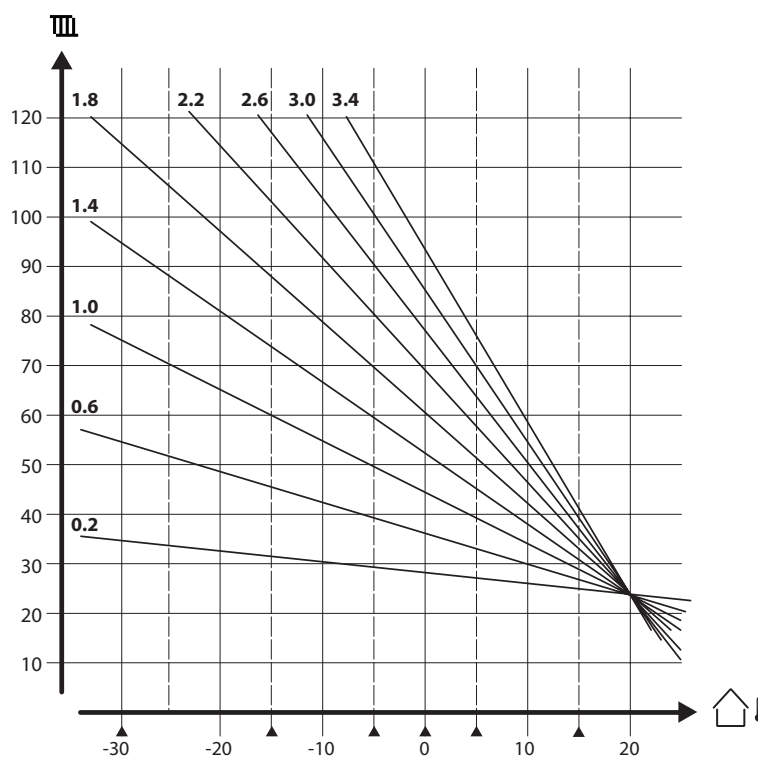
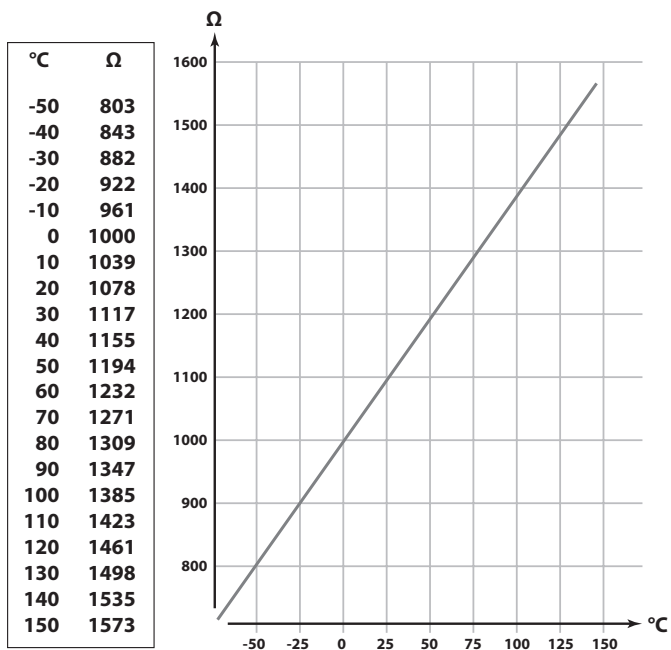
**M-bus**



**M-bus**



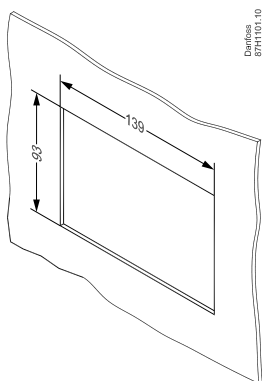
Pt 1000 (IEC 751B, 1000 Ω / 0 °C)



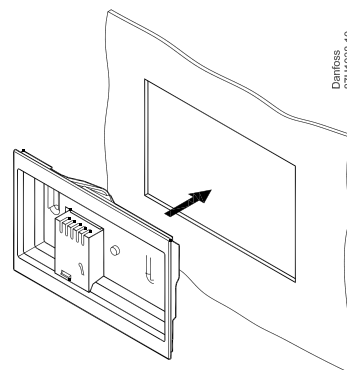


ECA 30

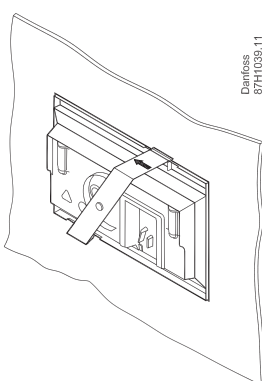
1



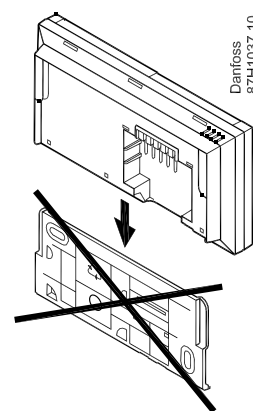
2



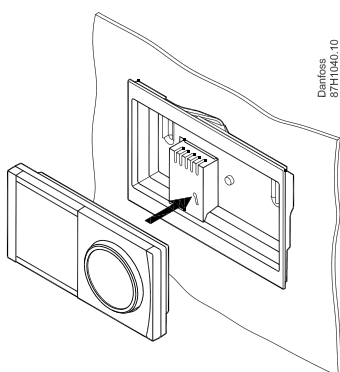
3



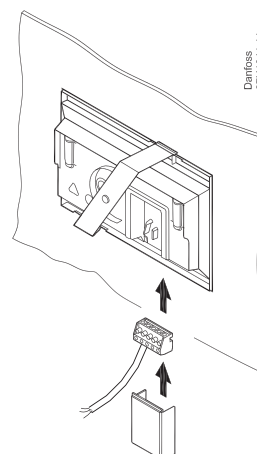
4



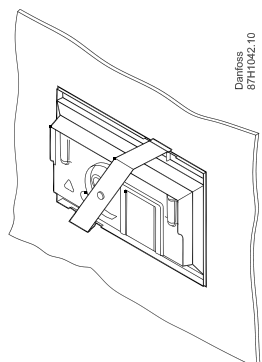
5



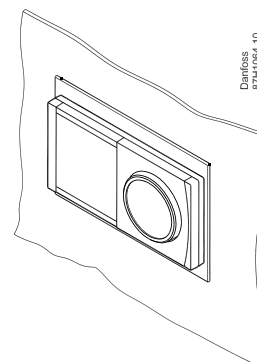
6



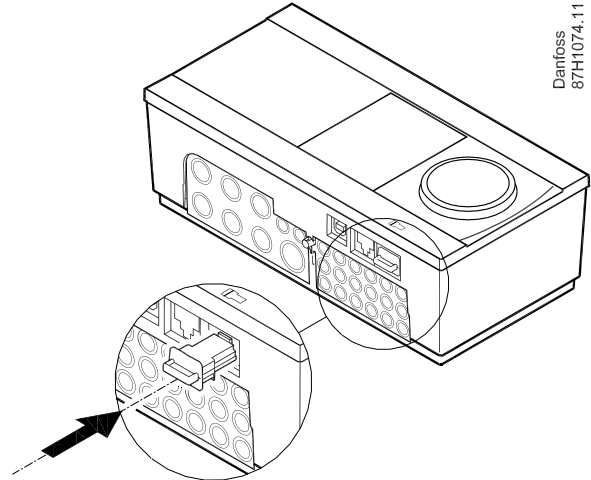
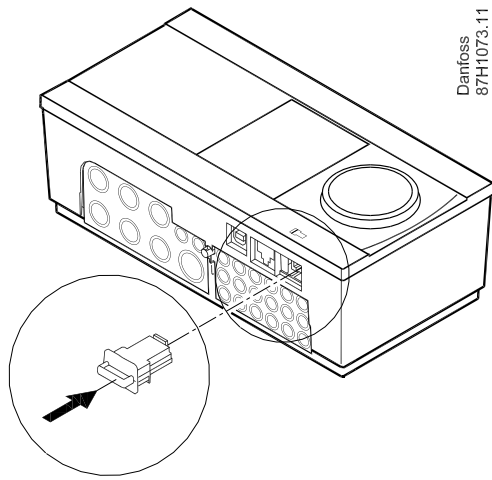
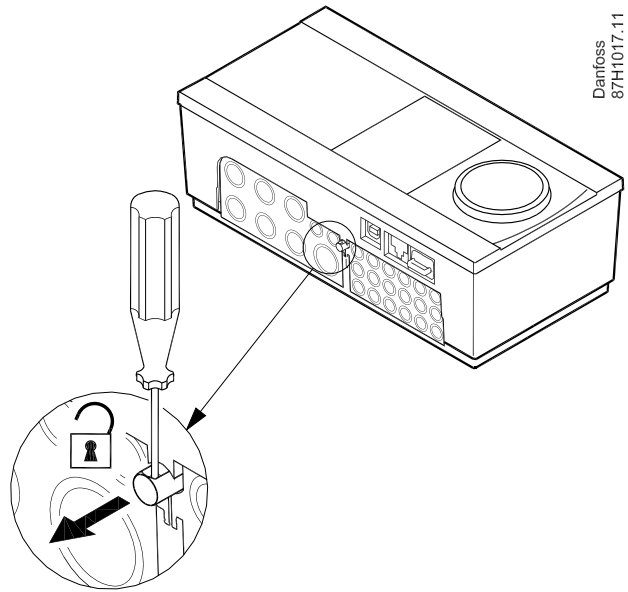
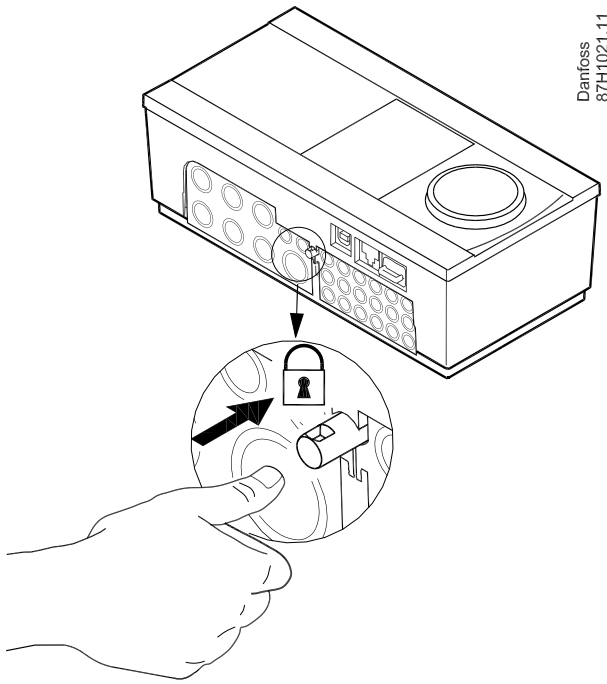
7



8



Installation Guide, ECL Comfort 210 / 296 / 310, A232 / A332



? ECL Comfort 210 / 296 / 310, A232 / A332: [www.heating.danfoss.com](http://www.heating.danfoss.com)

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



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