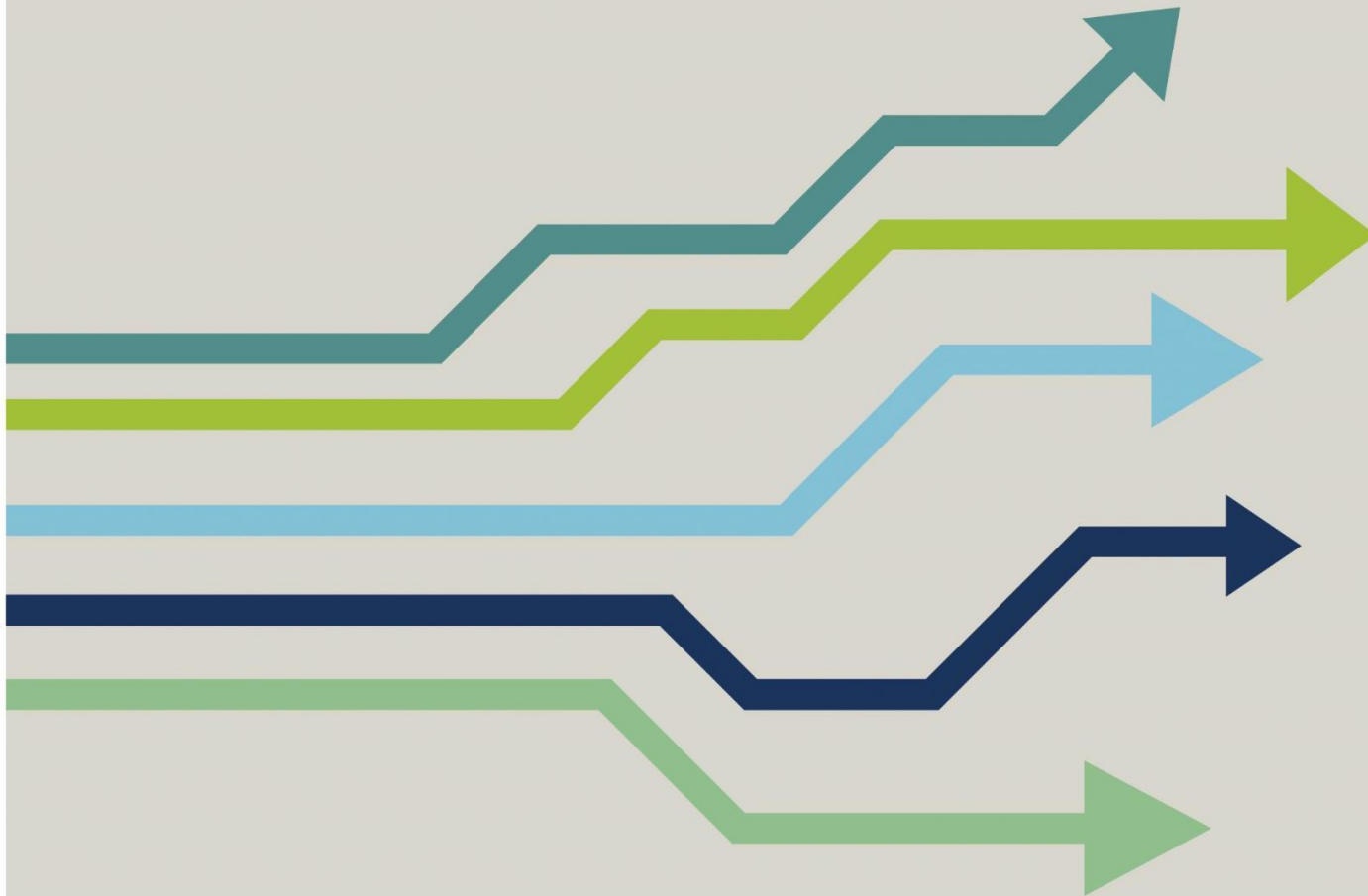


# Cable routing plan

Project Number: Top EC

Version number: 01



**Genau  
mein  
Klima.**

**KAMPMANN**

### Information on cable laying:

The following information on cable types and cable laying must be observed in compliance with VDE 0100.

The installation, operation and maintenance of these devices must comply with the country-specific applicable laws, standards, regulations and directives.

Without \*: NYM-J. The required number of cores incl. protective conductor is indicated on the cable. Cross sections are not indicated, as the cable length is included in the calculation of the cross section.

\*) : Shielded cable, J-Y(ST)Y 0.8mm. Lay separately from power lines.

\*\*) : Shielded cable stranded in pairs, e.g. UNITRONIC® BUS LD 2x2x0.22, UNITRONIC® BUS LD 3x2x0.22. Install separately from power lines.

- If other cable types are used, they must be at least equivalent.

- The connection terminals on the device are suitable for a maximum wire cross-section of 2.5 mm<sup>2</sup>, the mains plug for max. 4.0 mm<sup>2</sup>.

- When using residual current circuit breakers, these must be at least mixed frequency sensitive (type F). For the design of the rated residual current, the specifications from DIN VDE 0100 Parts 400 and 500 must be observed.

- For the design of the on-site mains supply and fuse protection (C16A, max. 10 devices), the electrical data in the table below must be observed.


- Lines for data or bus signals are shown with shield connected at one end. Lines for analog signals are shown with the shield not connected. Due to structural or local conditions and depending on the type and level of interference, which can be caused by magnetic and/or electric fields in high and/or low frequency ranges, among other things, a different connection of the shield (connected at both ends or not connected) may be necessary. This must be checked by the customer and, if necessary, carried out deviating from the specifications in the documentation!

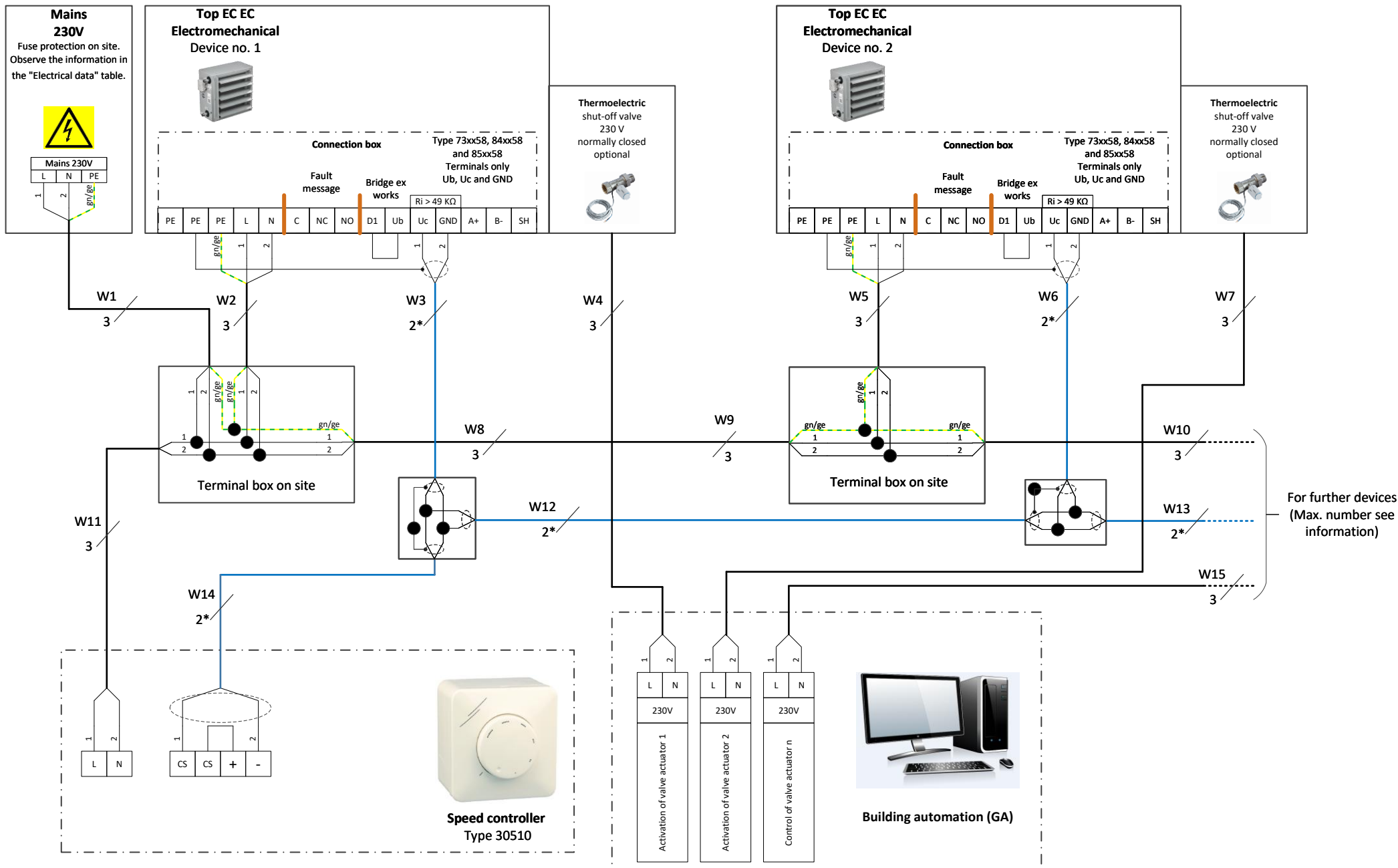
### Electromechanical:

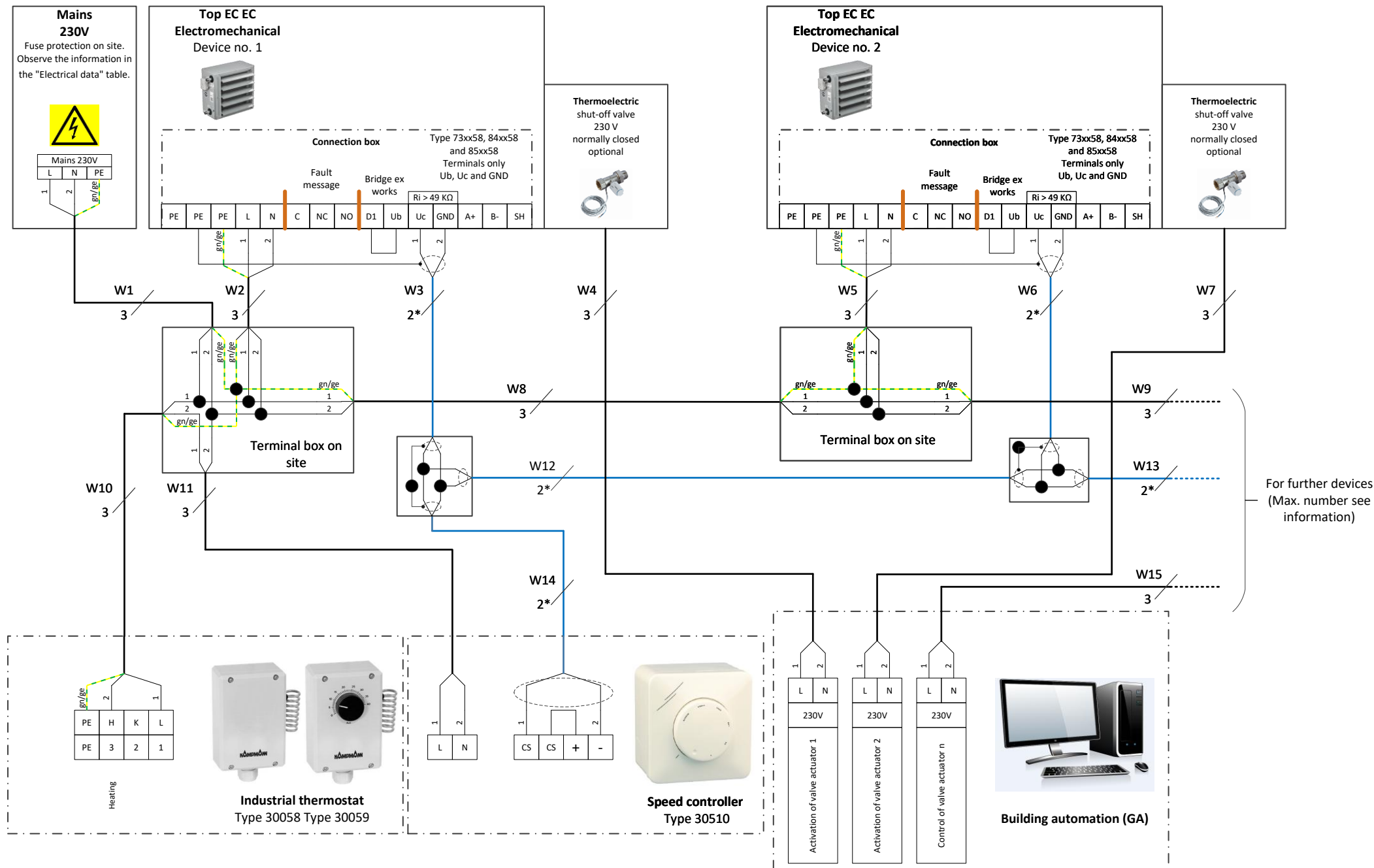
- Cable length between speed controller and the last device: maximum 100 m, from 20 m connect shield on one side.

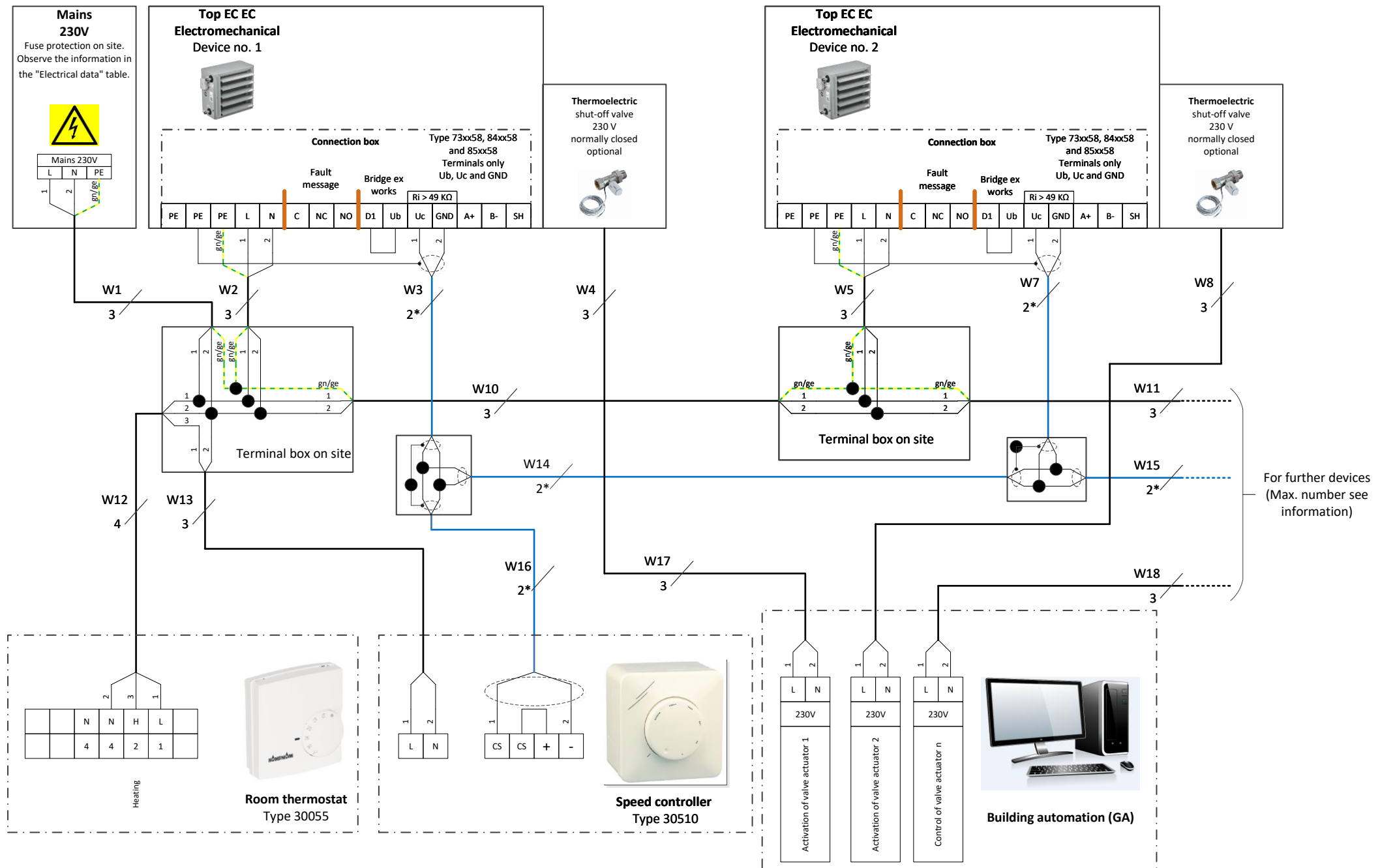
- Cable length between room thermostat and temperature sensor or switch contact: maximum 50 m.

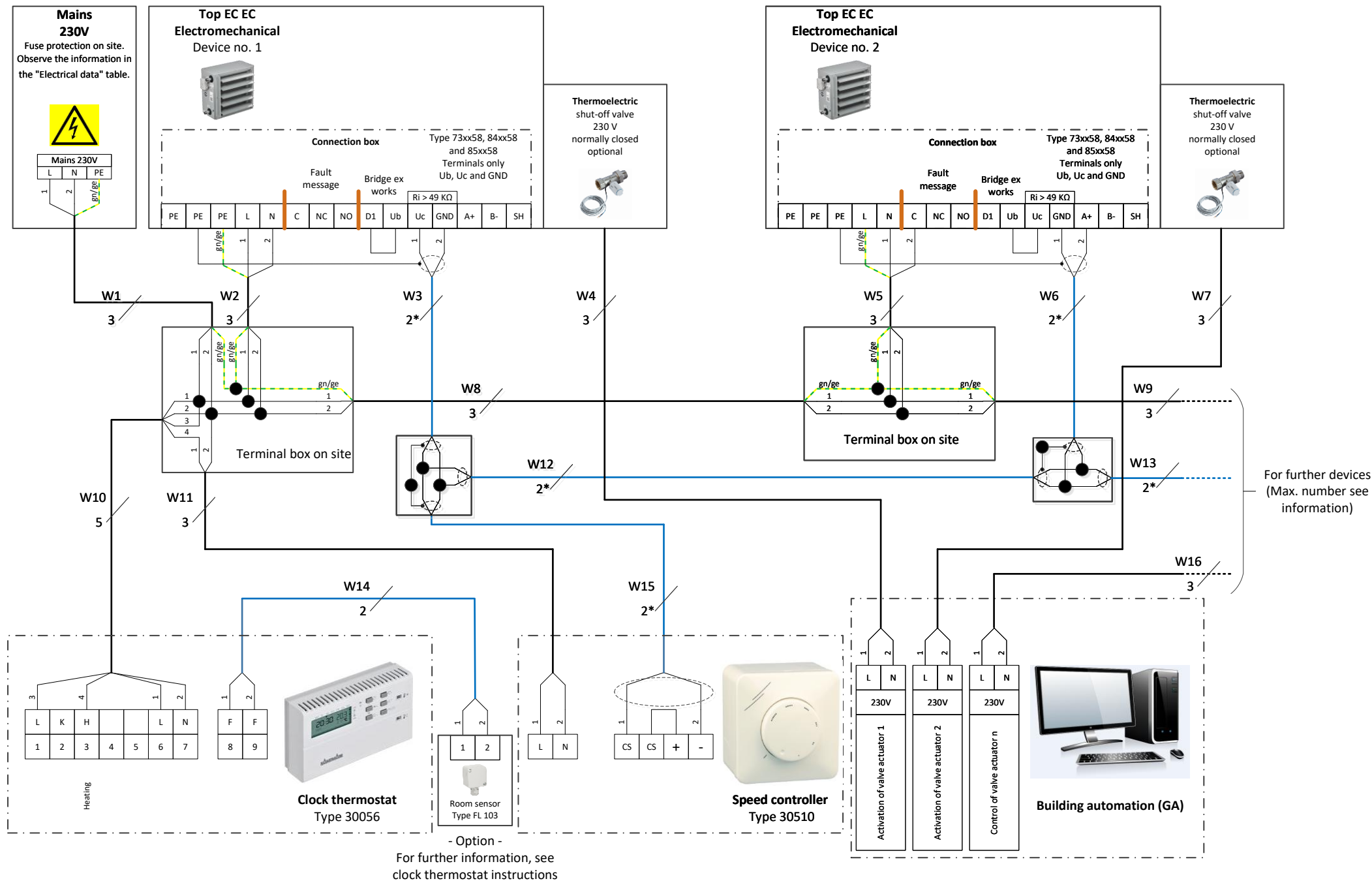
- Cable length between speed controller and temperature sensor or switching contact: maximum 100 m.

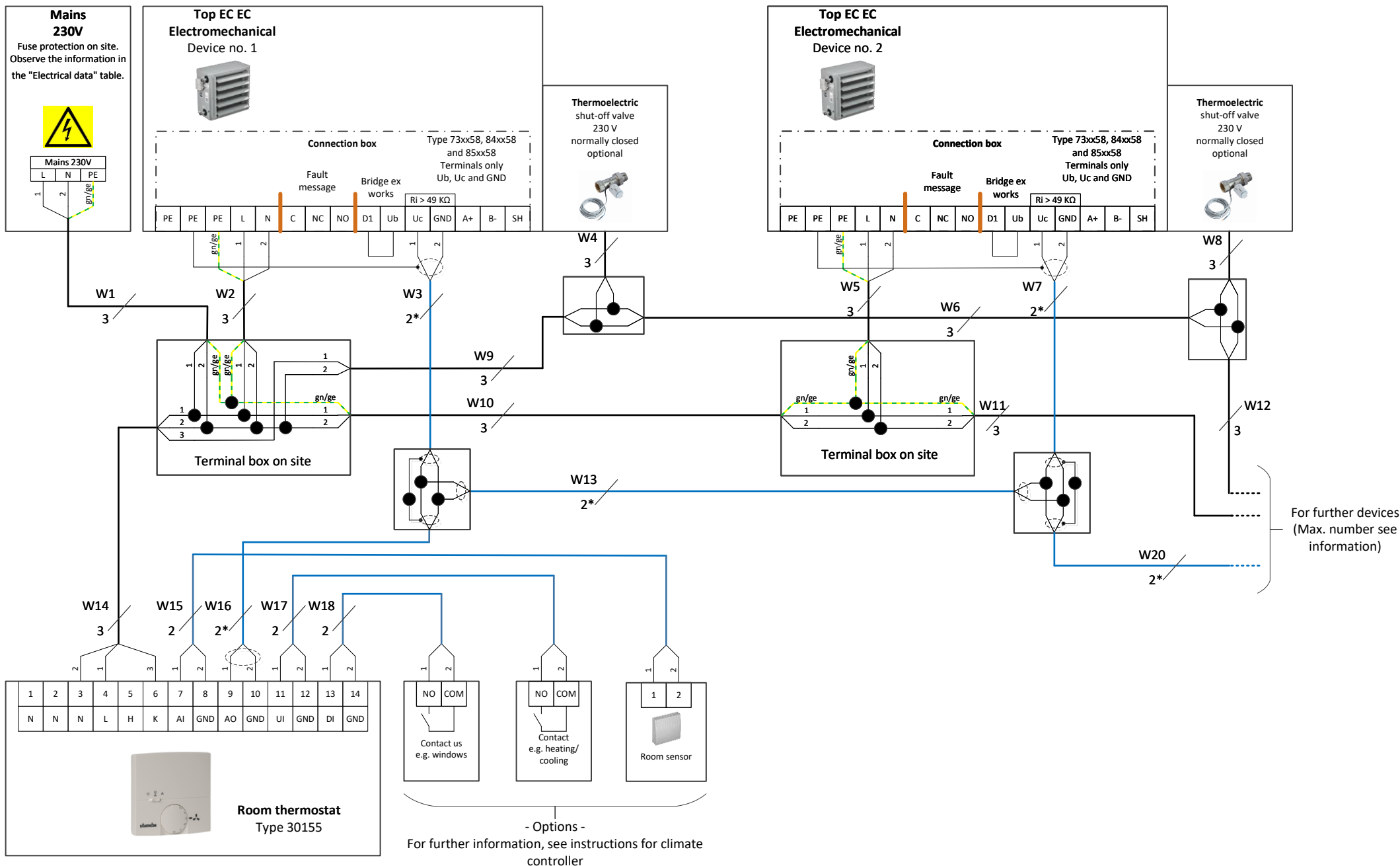
<b>KaControl®</b>	Bearbeiter:	Projekt:	General Information	Blatt-Nr.: 2 von 12	 Genau mein Klima.
	Erstelldatum: 2/26/2025	Projekt-Nr.:			





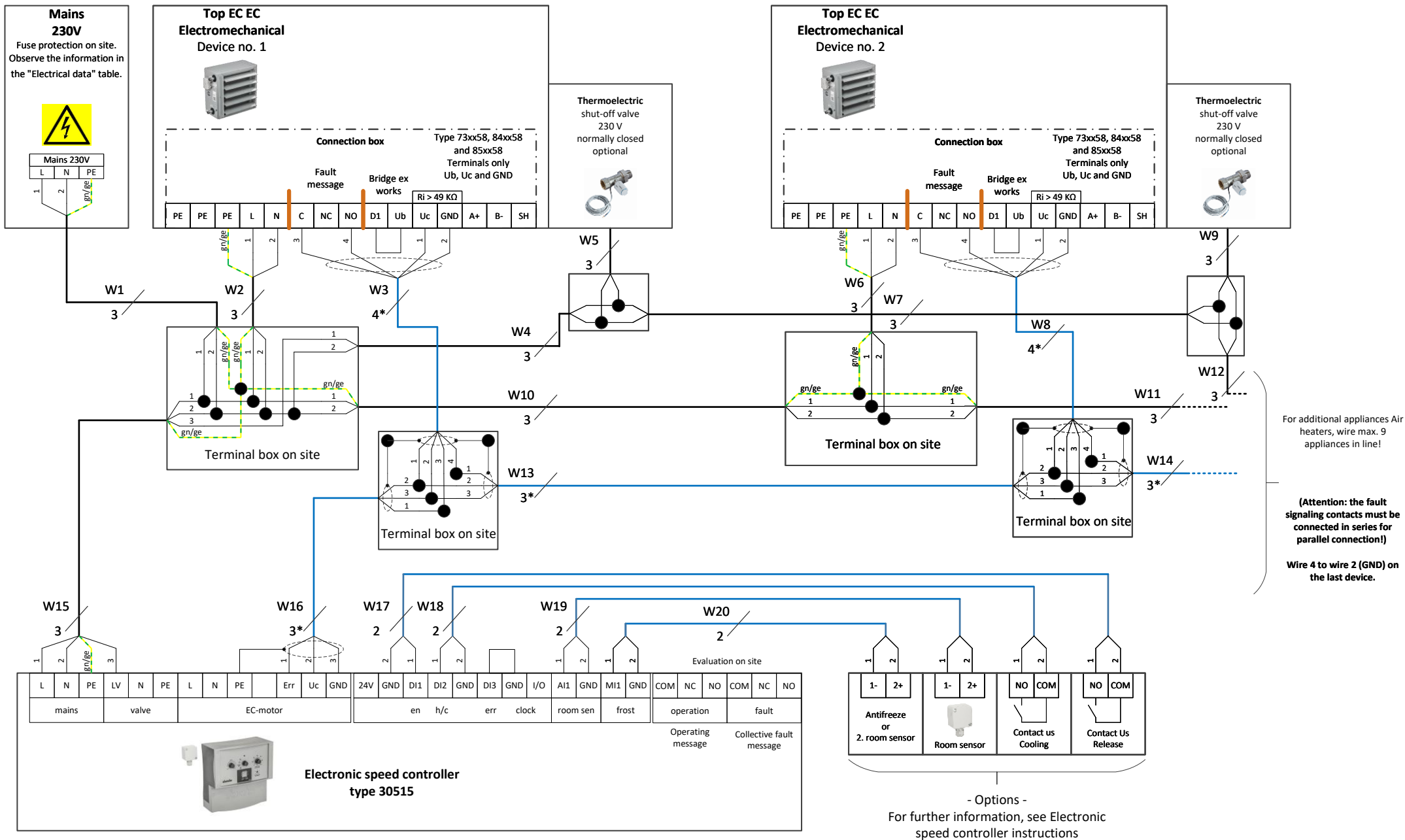


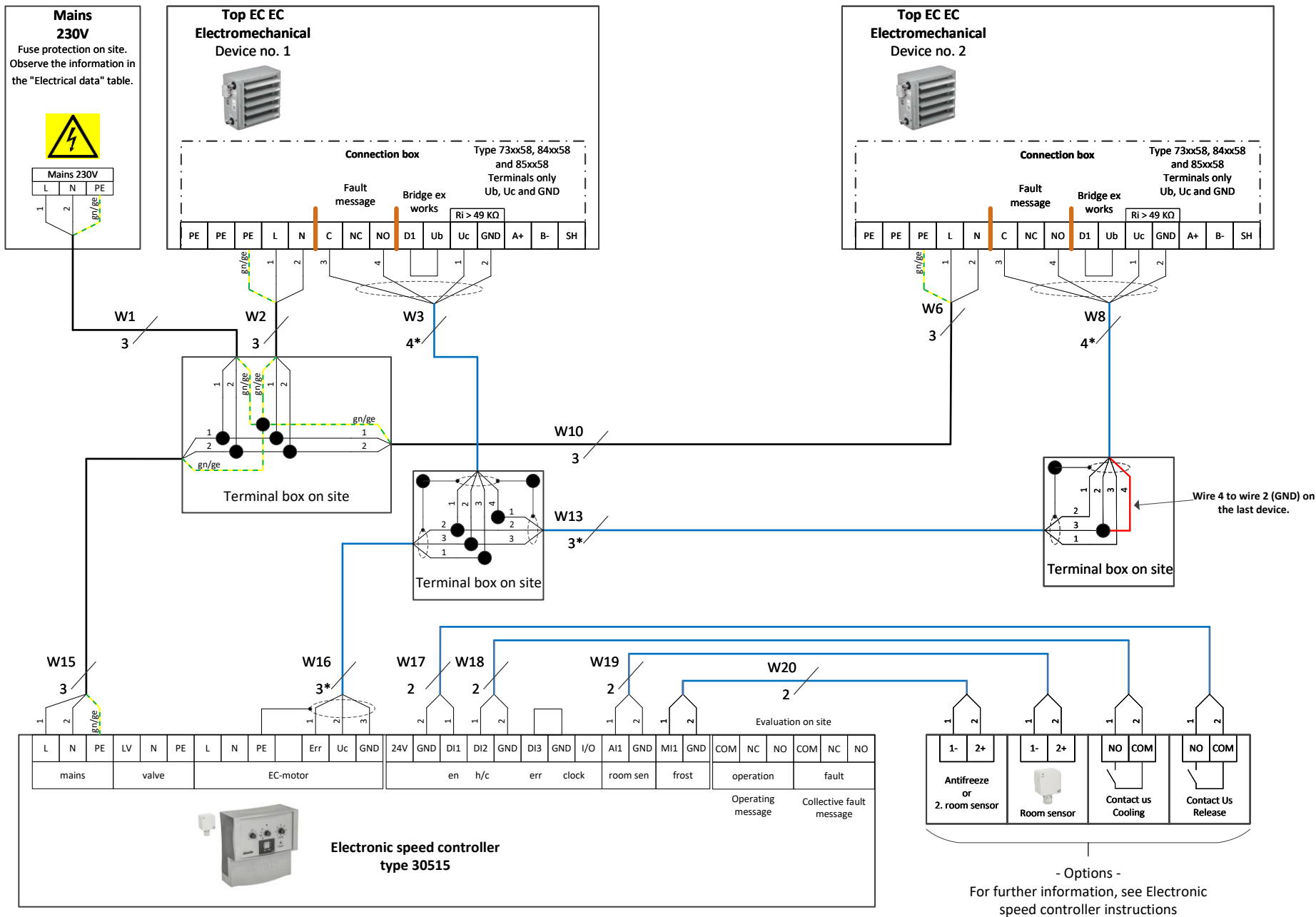









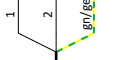





**Mains 230V**  
Fuse protection on site.  
Observe the information in the "Electrical data" table.



Mains 230V		
L	N	PE




**Top EC EC Electromechanical Device no. 1**



**Connection box** Type 73xx58, 84xx58 and 85xx58  
Terminals only Ub, Uc and GND

Fault message			Bridge ex works			Ri > 49 KΩ								
PE	PE	PE	L	N	C	NC	NO	D1	Ub	Uc	GND	A+	B-	SH

Thermoelectric shut-off valve 230 V normally closed optional



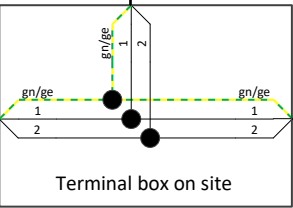
W1 3

W2 3


W3 4\*

W4 3

Terminal box on site




**Top EC EC Electromechanical Device no. 2**



**Connection box** Type 73xx58, 84xx58 and 85xx58  
Terminals only Ub, Uc and GND

Fault message			Bridge ex works			Ri > 49 KΩ								
PE	PE	PE	L	N	C	NC	NO	D1	Ub	Uc	GND	A+	B-	SH

Thermoelectric shut-off valve 230 V normally closed optional



W5 3

W6 4\*

W7 3


For further devices (Max. number see information)

W8 2

W9 3

Speed device 1 Note internal resistance of device!				Speed device 2 Note internal resistance of device!				2-pipe heating/cooling		2-pipe heating/cooling		Condensate alarm n		2-pipe heating/cooling	
PE	AA1 0-10V	AA1 GND	DI1	DI1	PE	AA2 0-10V	AA2 GND	DI2	DI2	DA1	DA1	DA2	DA2	DA1	DA1
								230V		230V		Max. 250V 5A		230V	
								2-pipe heating/cooling		2-pipe heating/cooling		Condensate alarm n		2-pipe heating/cooling	

Building automation (GA)





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