

WIRING DIAGRAM GLOBAL AIR HANDLING UNITS



This wiring diagram is only an addition to our installation and operation manuals, available on our website for download.



All internal components (fans, controls, sensors, actuators...) to the control board are pre-wired.
The power supply must be connected to the safety isolating switch by a qualified electrician. Earthing is obligatory.



All electrical connections must be made by a qualified electrician and in accordance with local rules and regulations.



Residual current circuit breaker 300mA



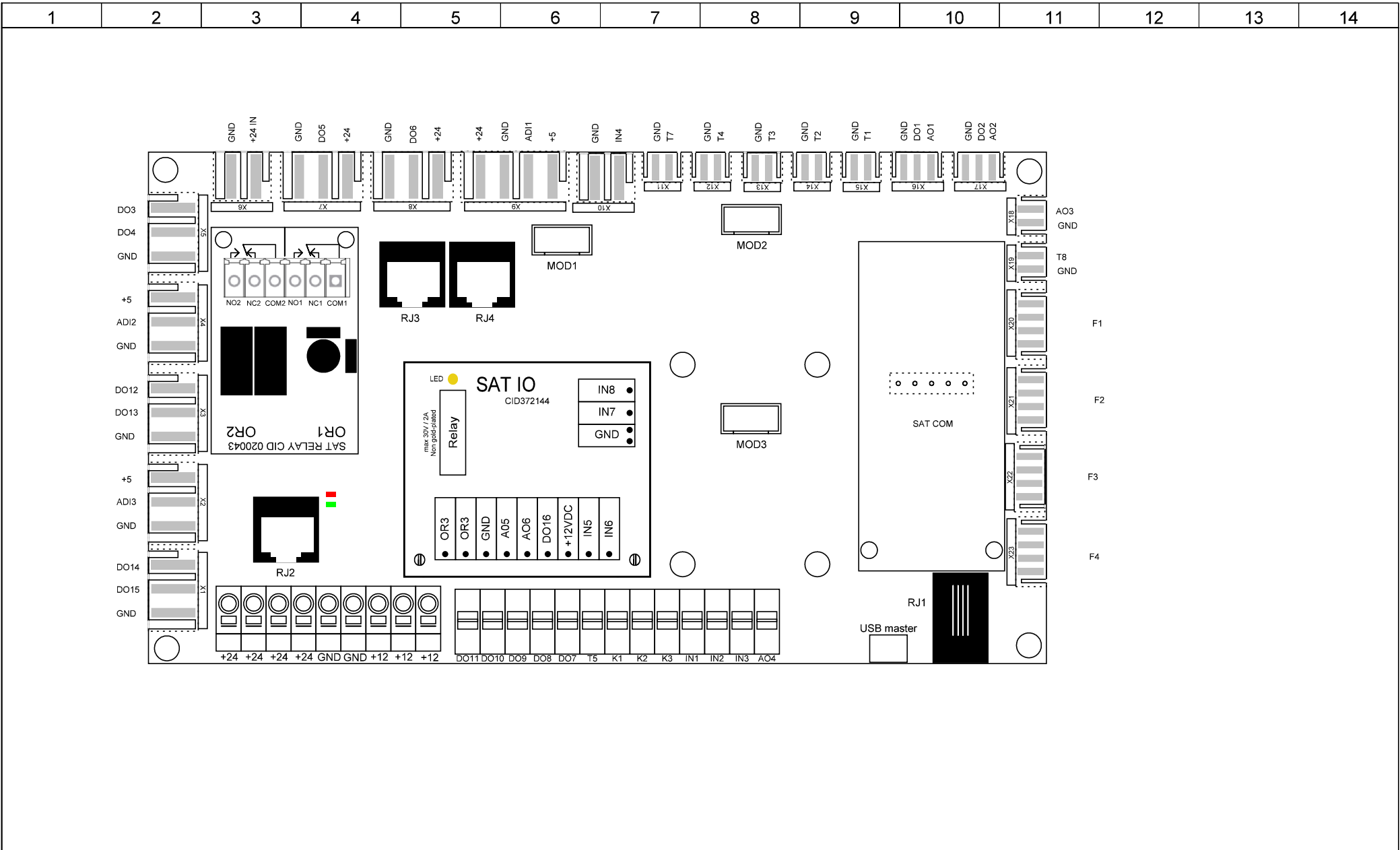
Fuse protection (D-type, "slow")
D – 10.000 A – AC3



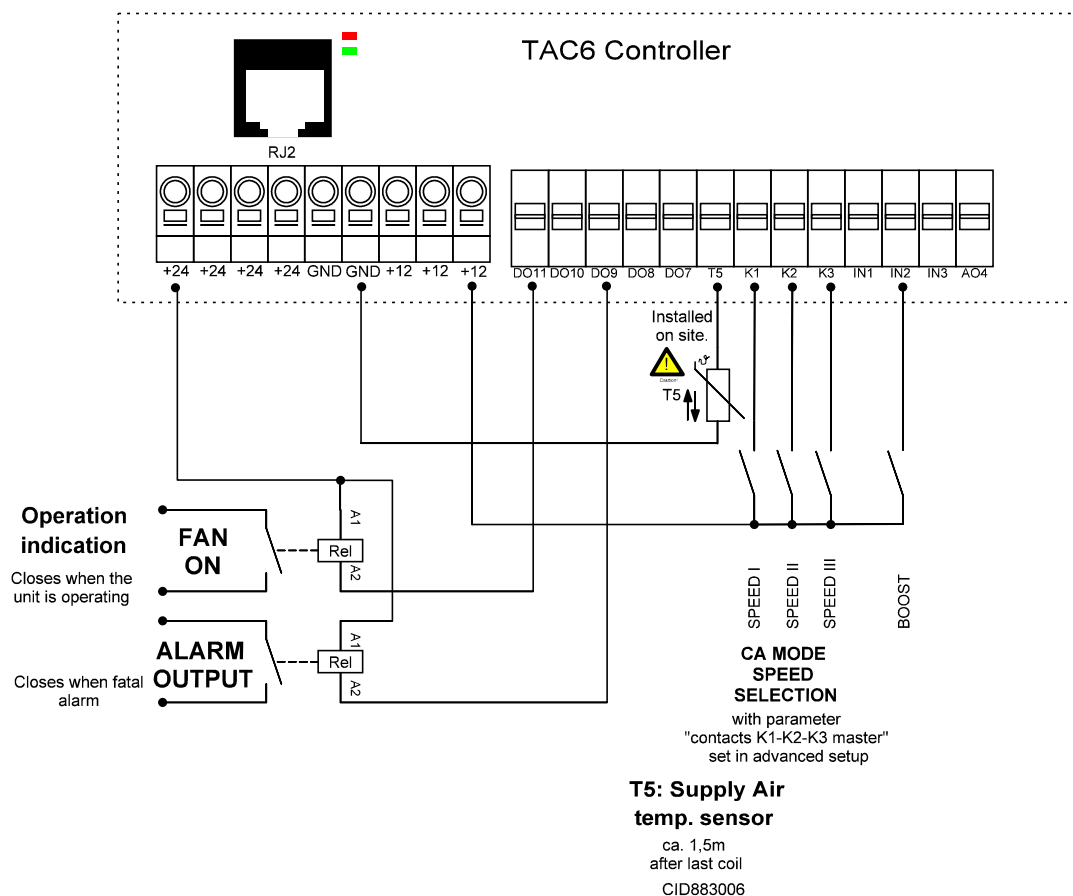
Electronic boards contains ESD sensitive components.
Use antistatic bracket connected to protective earth in case it is necessary to manipulate them.
In alternative, loose charges by touching the unit and handle boards at corners only.

Changes

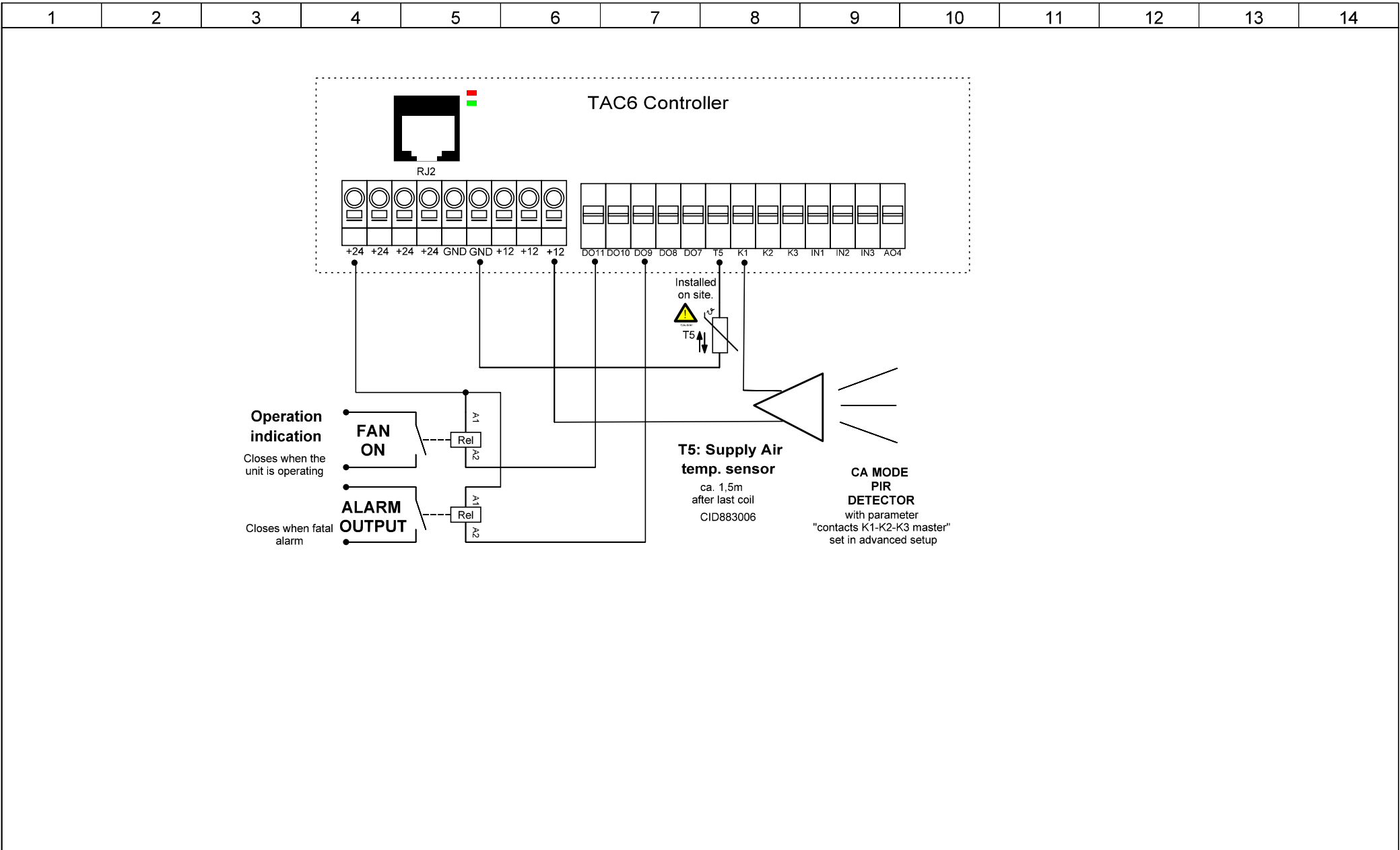
Name	Date	Draw.:	Name	Date	Application: General	Page
		Draw.:	msg	16/03/2021		1
		check.:				
		Norm:			Application: General	of
Subject:	GLOBAL_Wiring AC6 rev20230408.spl7					53



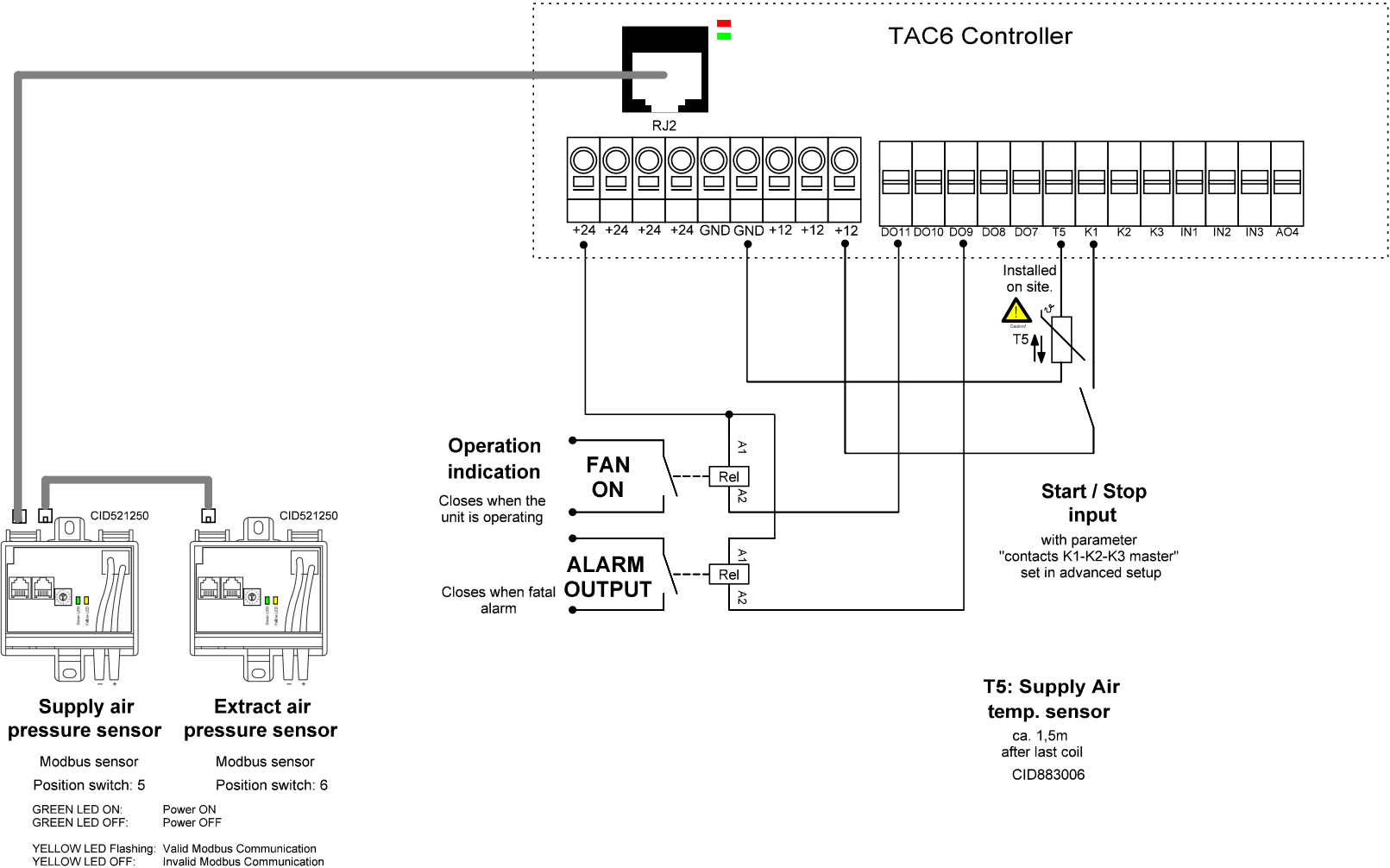
Changes		Name		Date	TAC6	Page
Name	Date	Draw.:	msg	16/03/2021		2
		check.:				
		Norm:			Application:	of
Subject:	GLOBAL_Wiring TAC6 rev 20230408.spl7				Controller	53



Changes			Name	Date	Configuration of function: Basic setup / Air flow regulation	Page
Name	Date	Draw.:	msg	16/03/2021		6
		check.:			Application: Constant airflow	of 53
		Norm.:				
Subject:	GLOBAL_Wiring TAC6 rev 20230408.spl7					

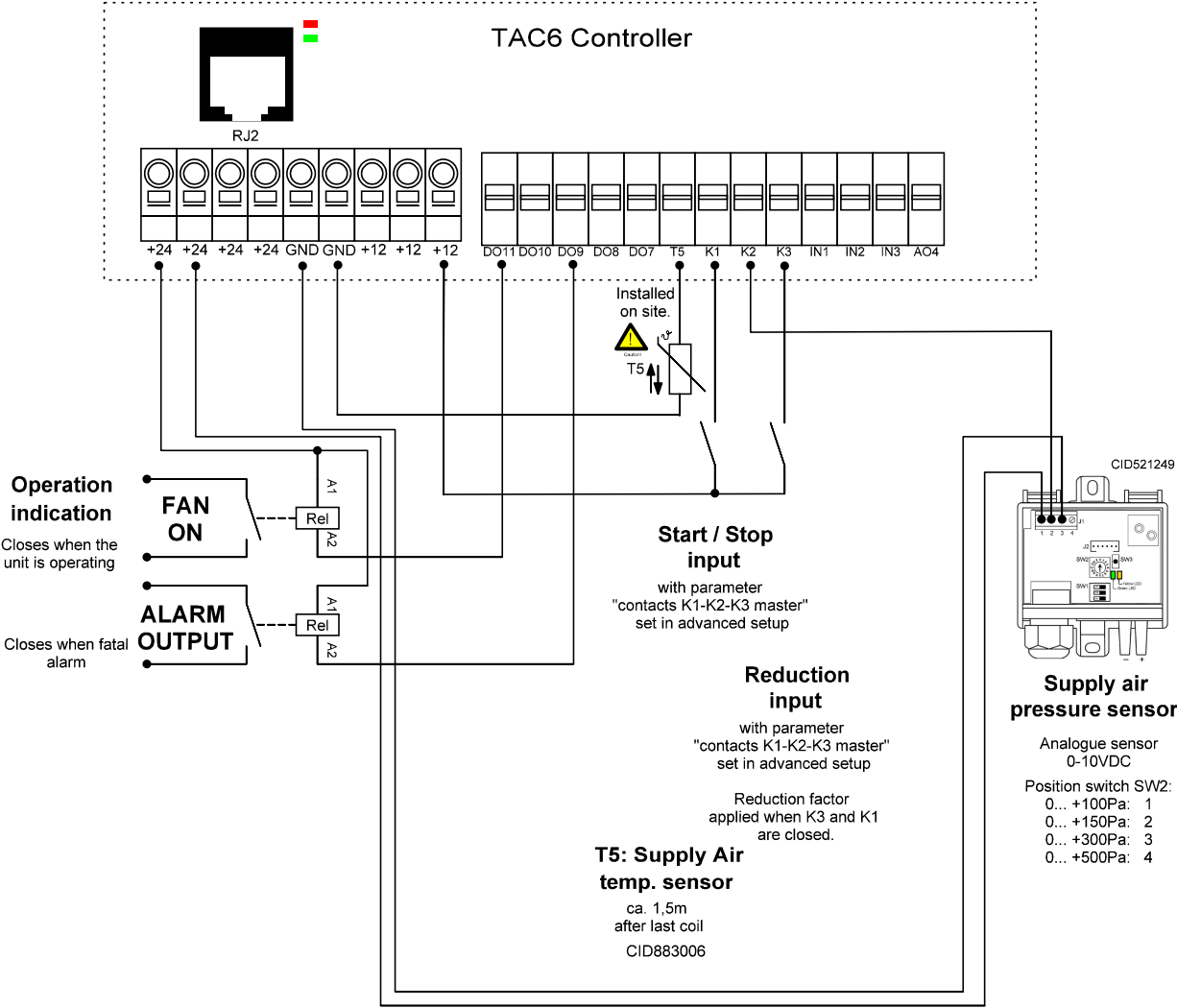


Changes			Name	Date	Configuration of function: Basic setup / Air flow regulation	Page
Name	Date	Draw.:	msg	10/08/2021		7
		check.:				
		Norm:			Application: Constant airflow - PIR	of
Subject:	GLOBAL_Wiring TAC6 rev 20230408.spl7					53

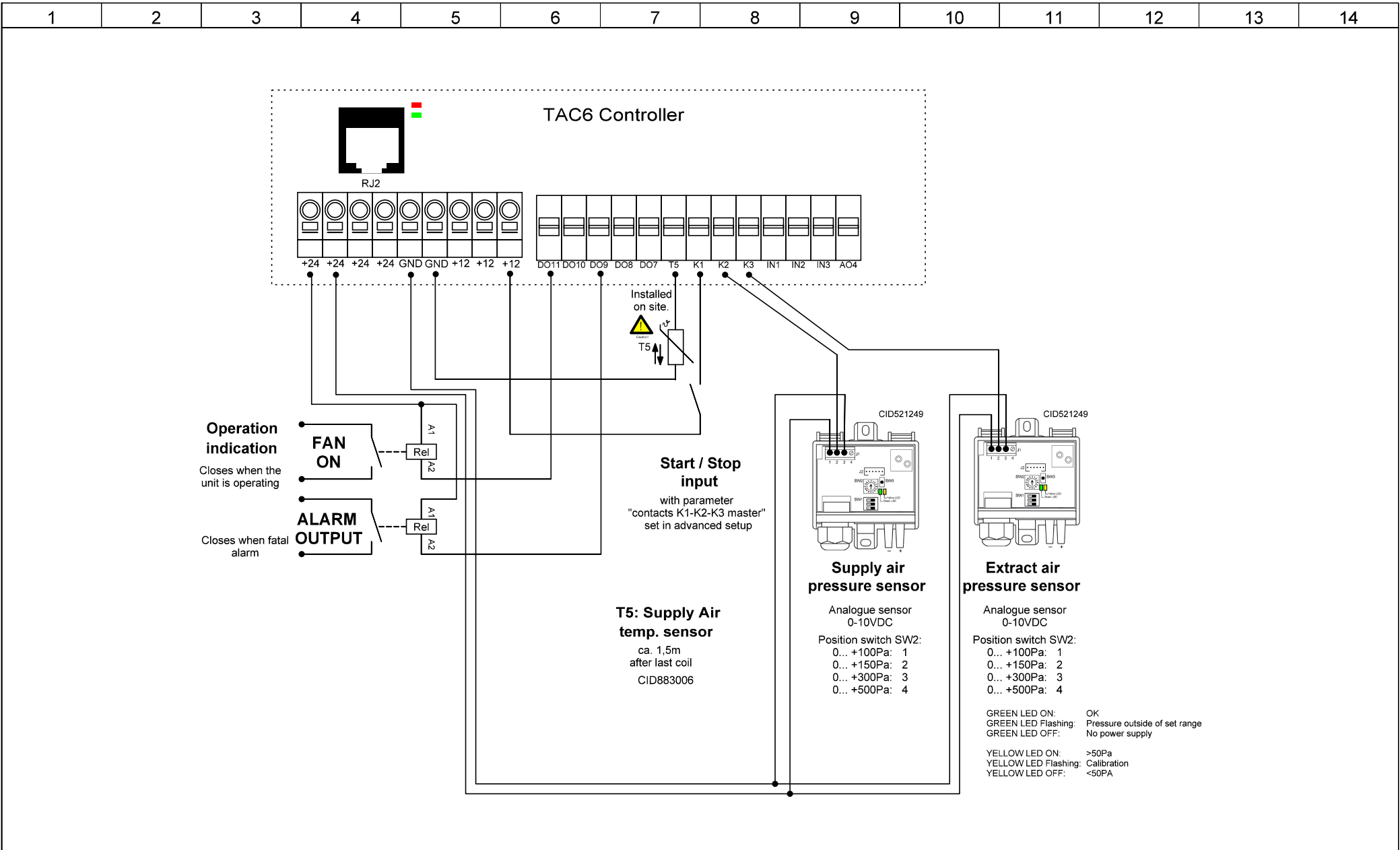


CP MODE + COM SENSORS

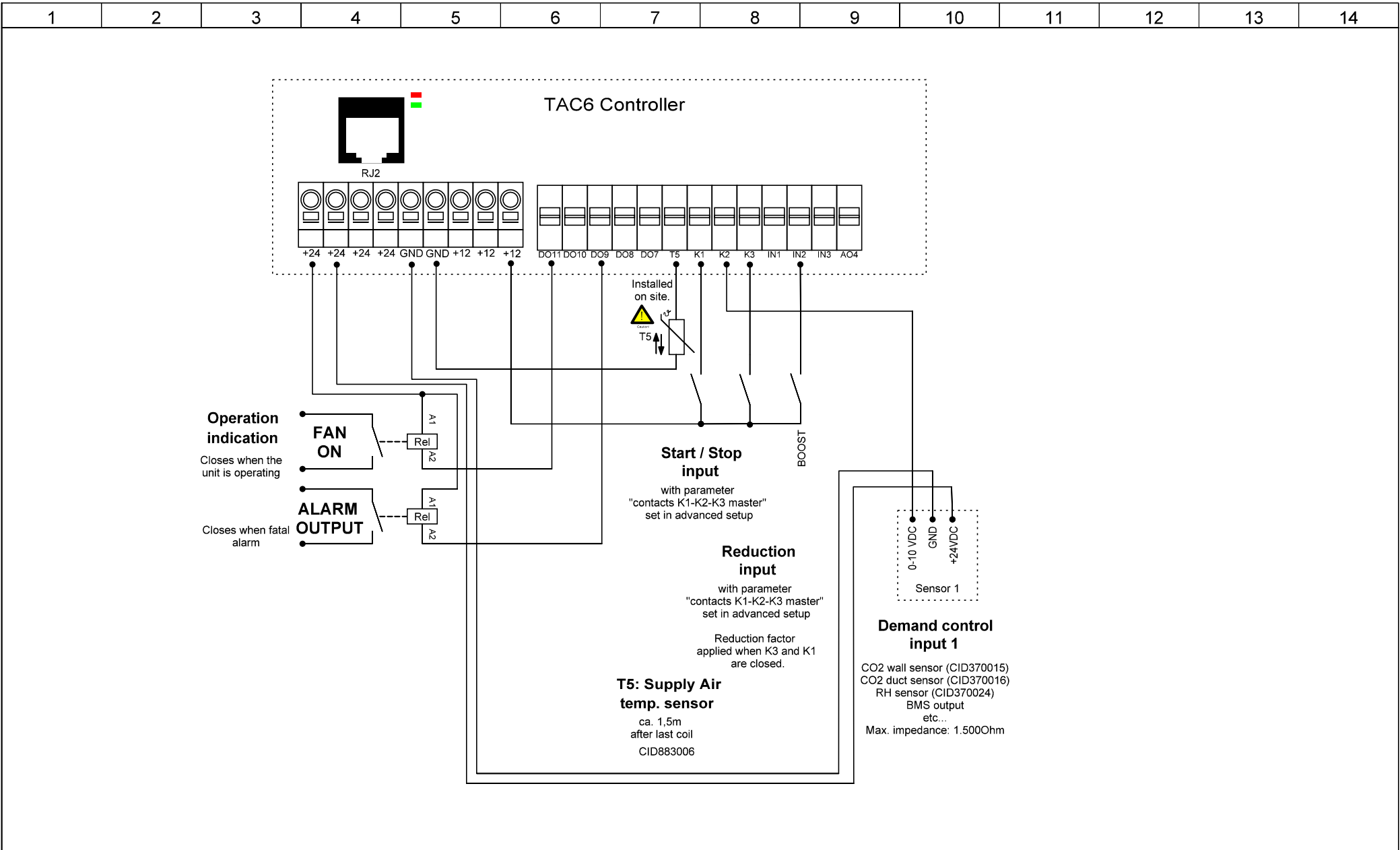
Changes			Name	Date	Configuration of function: Basic setup / Air flow regulation	Page	
Name	Date	Draw.:	msg	16/03/2021		8	
		check.:					
		Norm:				Application: Constant pressure Modbus	of 53
Subject:	GLOBAL_Wiring TAC6 rev 20230408.spl7						



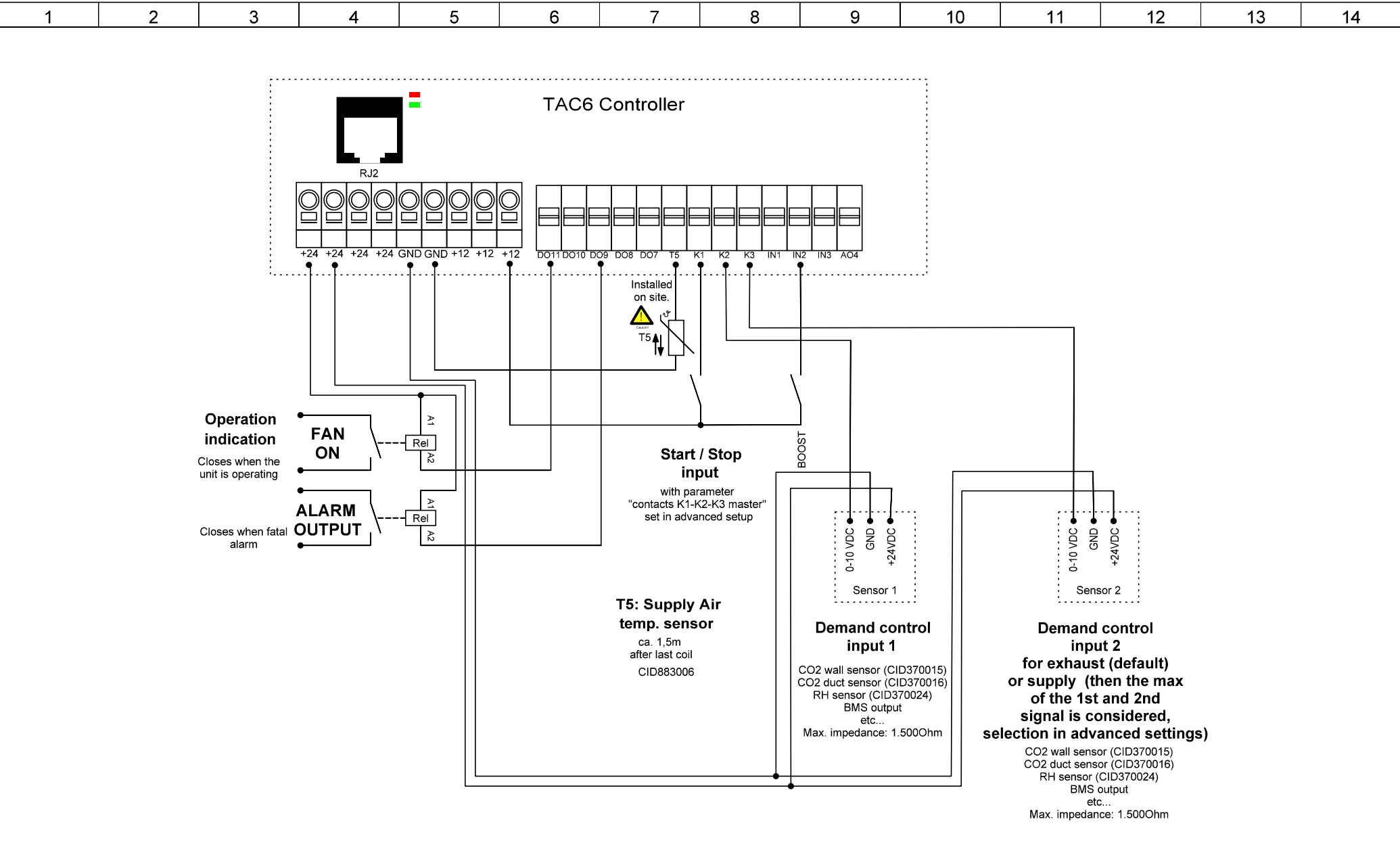
Changes			Name	Date	Configuration of function: Basic setup / Air flow regulation	Page
Name	Date	Draw.:	msg	16/03/2021		9
		check.:				
		Norm:			Application: Constant pressure 1x 0-10V	of 53
Subject:	GLOBAL_Wiring TAC6 rev 20230408.spl7					



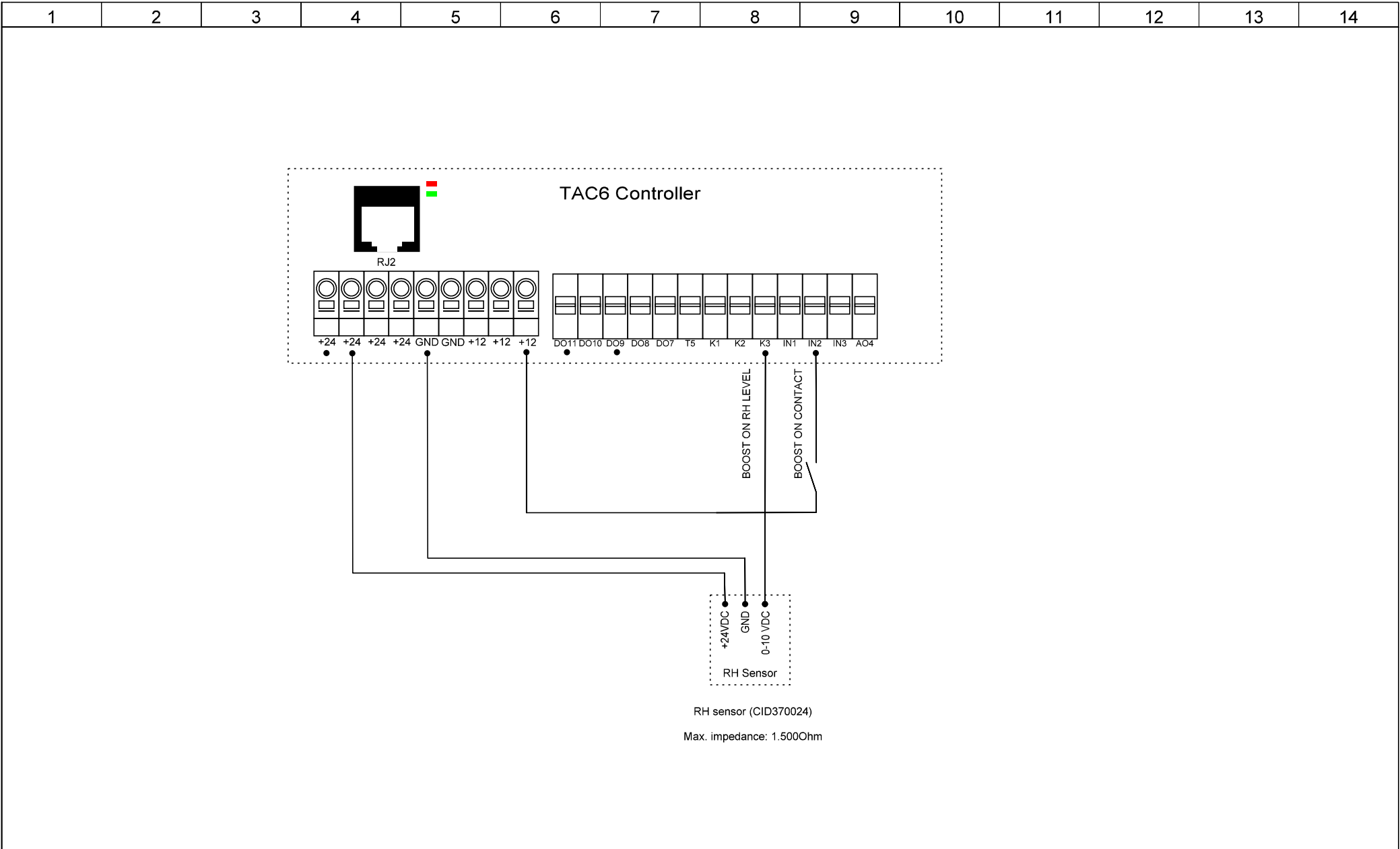
Changes			Name	Date	Configuration of function: Basic setup / Air flow regulation	Page
Name	Date	Draw.:	msg	16/03/2021		10
		check.:				
		Norm:			Application: Constant pressure 2x 0-10V	of 53
Subject:	GLOBAL_Wiring TAC6 rev 20230408.spl7					



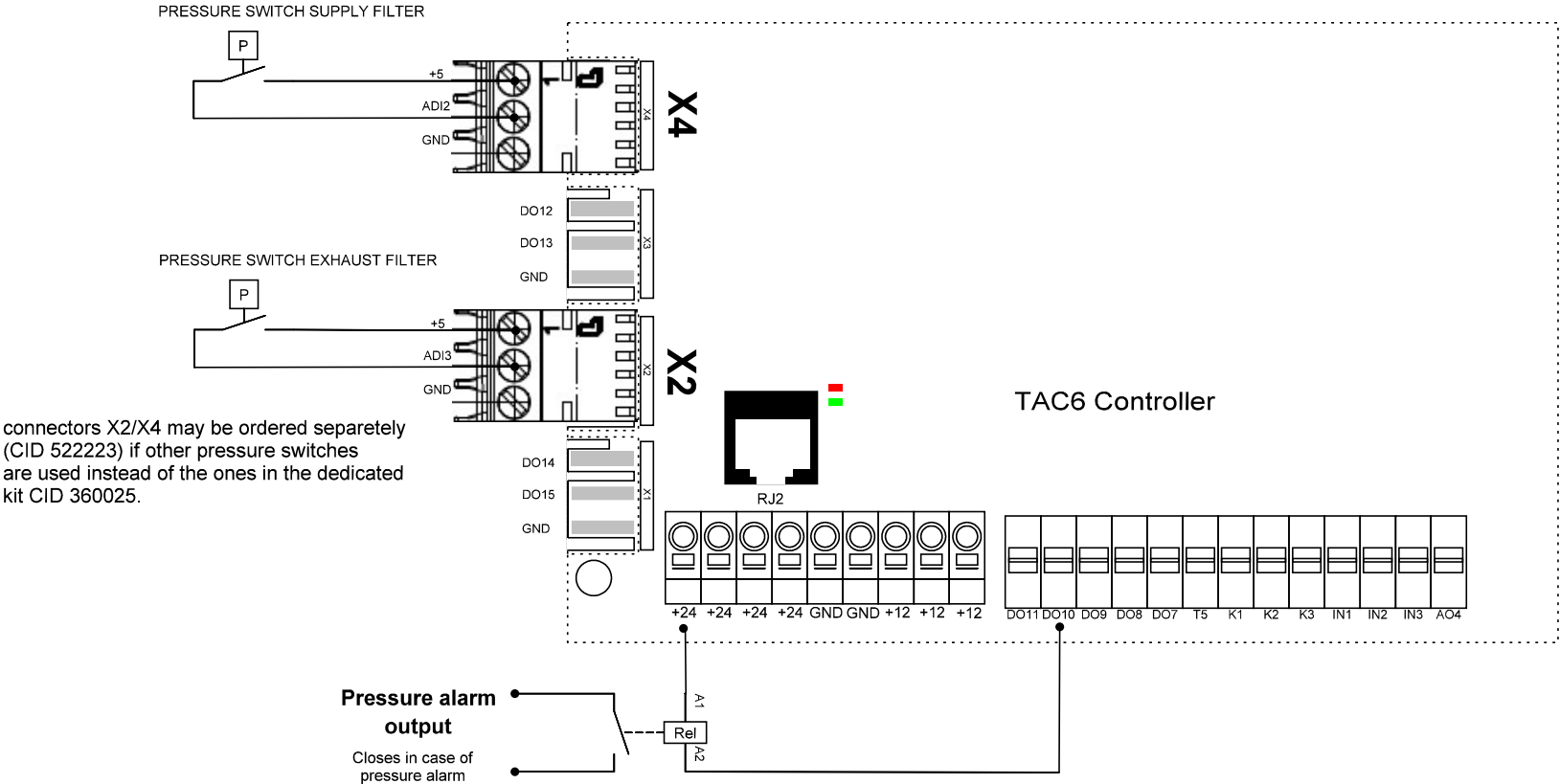
Changes		Name		Date	Configuration of function: Basic setup / Air flow regulation / Demand control	Page
Name	Date	Draw.:	msg	16/03/2021		11
		check.:				
		Norm:			Application: Demand control 1x 0-10V	of 53
Subject:	GLOBAL_Wiring TAC6 rev 20230408.spl7					



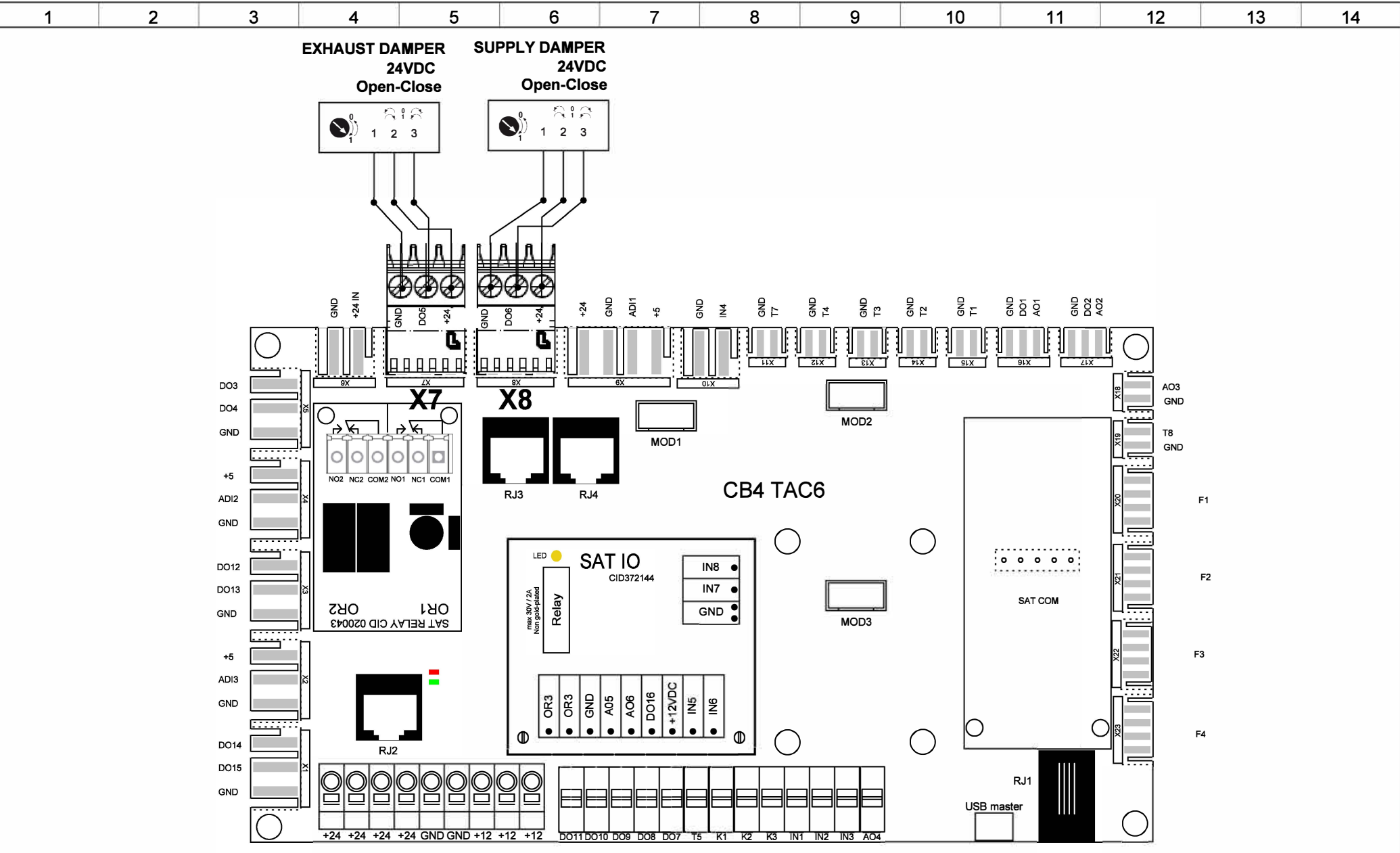
Changes		Name		Date	Configuration of function: Basic setup / Air flow regulation / Demand control	Page
Name	Date	Draw.:	msg	16/03/2021		12
		check.:				
		Norm:			Application:	of
Subject:	GLOBAL_Wiring TAC6 rev 20230408.spl7				Demand control 2x 0-10V	53



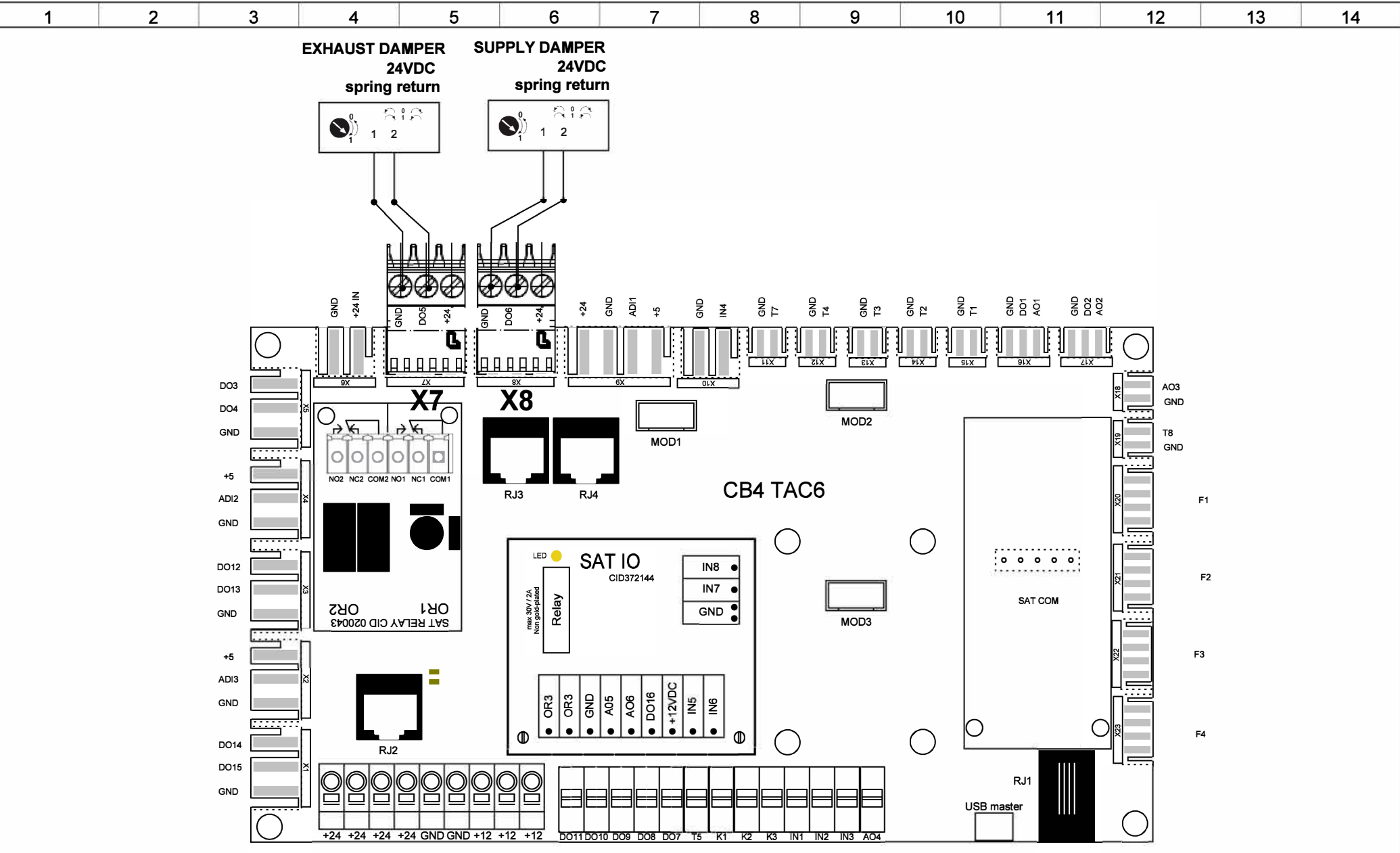
Changes			Name	Date	Configuration of function: Advanced setup / BOOST	Page
Name	Date	Draw.:	msg	16/03/2021		13
		check.:				
		Norm:			Application: BOOST	of 53
Subject:	GLOBAL_Wiring TAC6 rev 20230408.spl7					



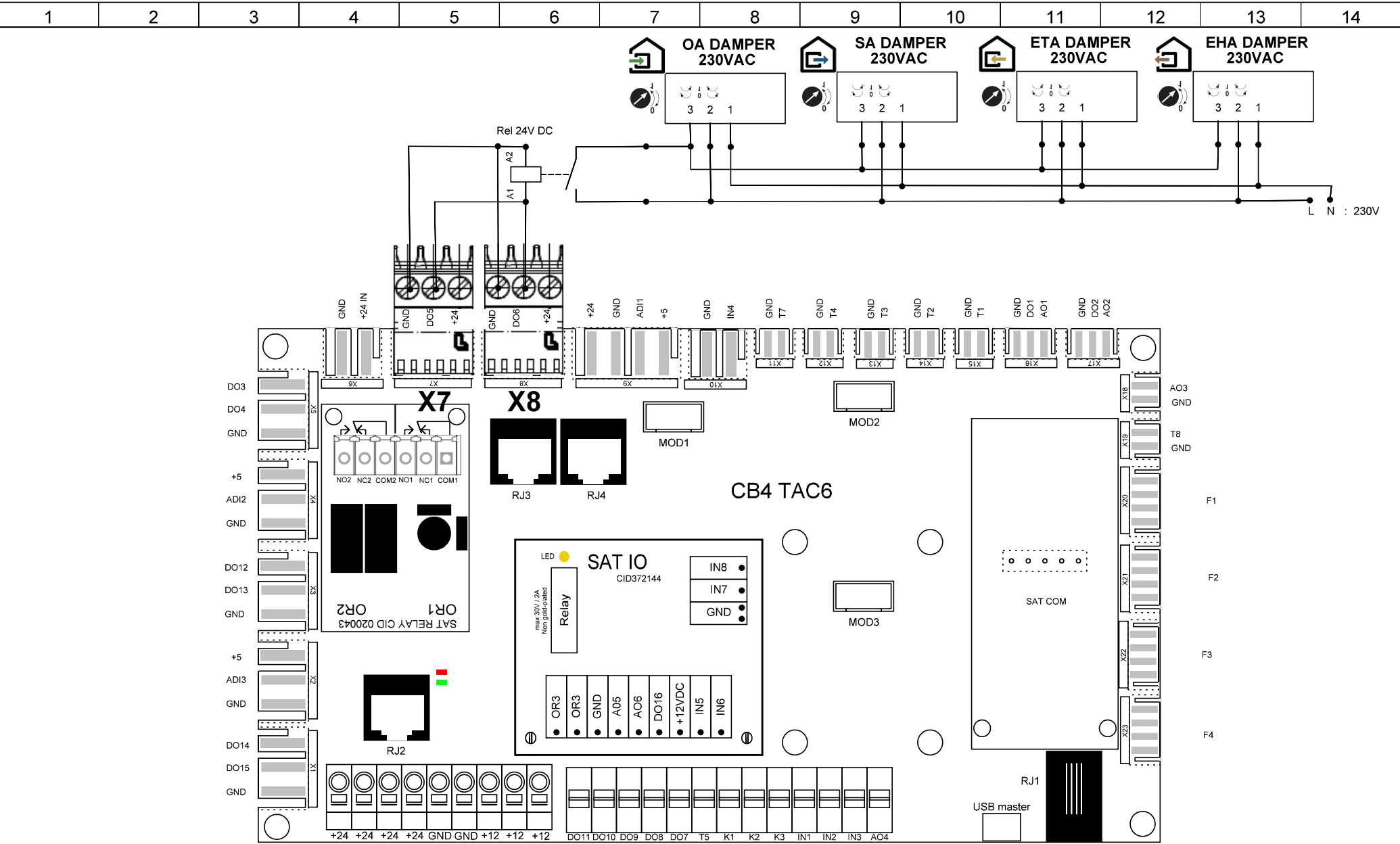
Changes		Name		Date	Configuration of function:	Page
Name	Date	Draw.:	msg	16/03/2021		14
		check.:				
		Norm:			Application:	of
Subject:	GLOBAL_Wiring TAC6 rev 20230408.spl7				Filters alarm	53



Changes			Name	Date	Configuration of function: Basic setup	Page
Name	Date	Draw.:	msg	16/03/2021		15
msg	07/04/2023	check.:			Application: Motorised damper - standard	of 53
		Norm:				
Subject :	GLOBAL_Wiring TAC6 rev 20230408.spl7					



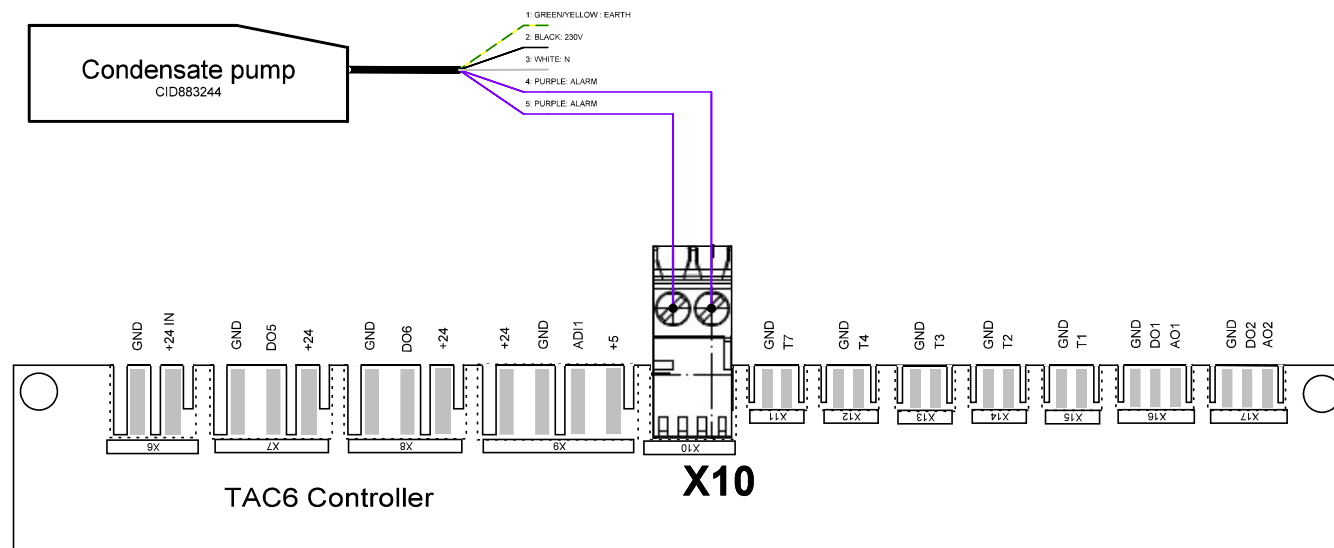
Changes			Name	Dat e	Configuration of function: Basic setup	Page
Name	Dat e	Draw. :	msg	16/03/2021		16
		check.:			Application: Motorised damper - spring ret	of
Subj ect :	GLOBAL_Wiring TAC6 rev 20230408.spl7					53



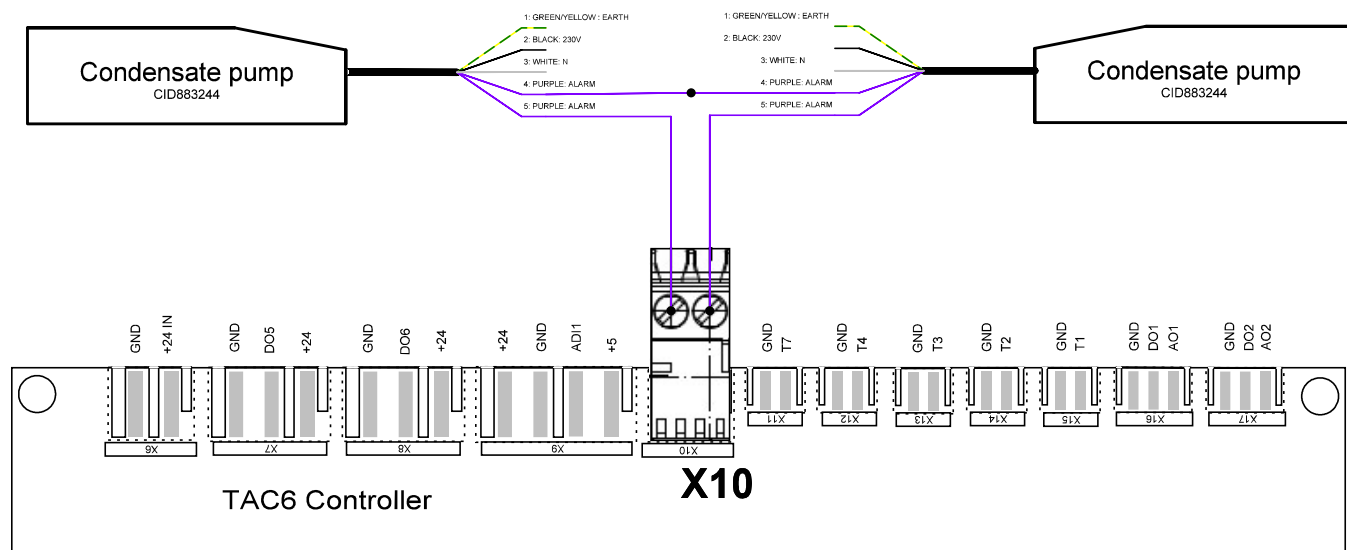
Changes		Name		Date	Configuration of function: Basic setup dampers move simultaneously in same direction (they all close or all open)	Page
Name	Date	Draw.:	msg	10/08/2021		17
		check.:			Application: Motorised damper - 230 V AC	of
Subject:	GLOBAL_Wiring TAC6 rev 20230408.spl7					53

1 device with drain pump (GLOBAL LP or postcooling coil)

The condensate pump contains an internal sensor that will automatically start the pump when the water level rises above approx. 15 mm and stop the pump when the water level has fallen to approx. 5 mm. The condensate pump is also fitted with a high water level alarm that will operate the alarm relay if the water level rises above approx. 25 mm. The pump will continue to run until the minimum water level is reached and the alarm will reset.

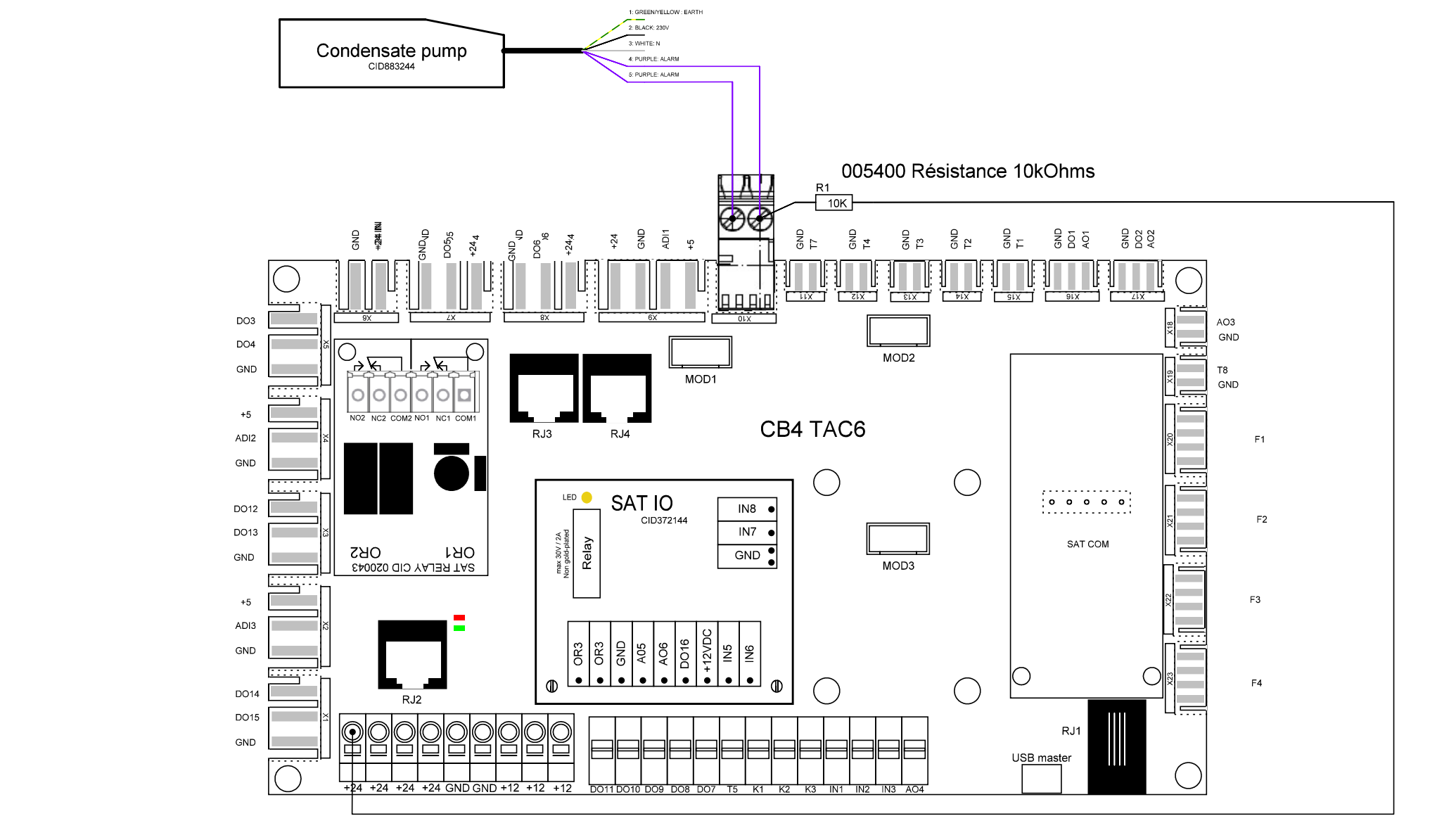


2 devices with drain pump (GLOBAL LP and postcooling coil)

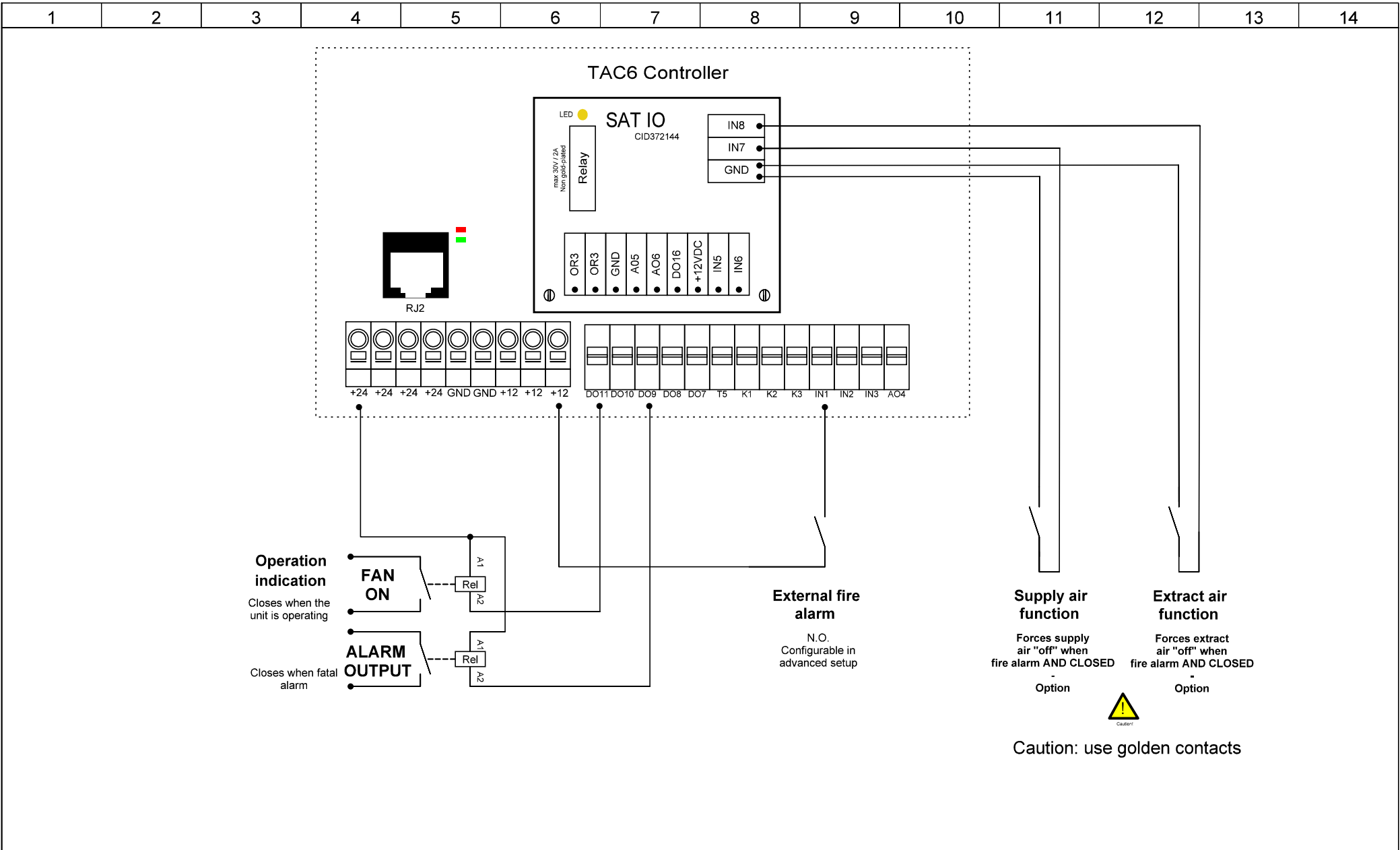


Changes

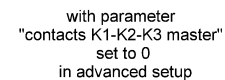
Name	Date	Draw.:	Name	Date	Application: Condense pump	Page
		check.:	msg	16/03/2021		18
		Norm:				of
Subject:	GLOBAL_Wiring TAC6 rev 20230408.spl7					53



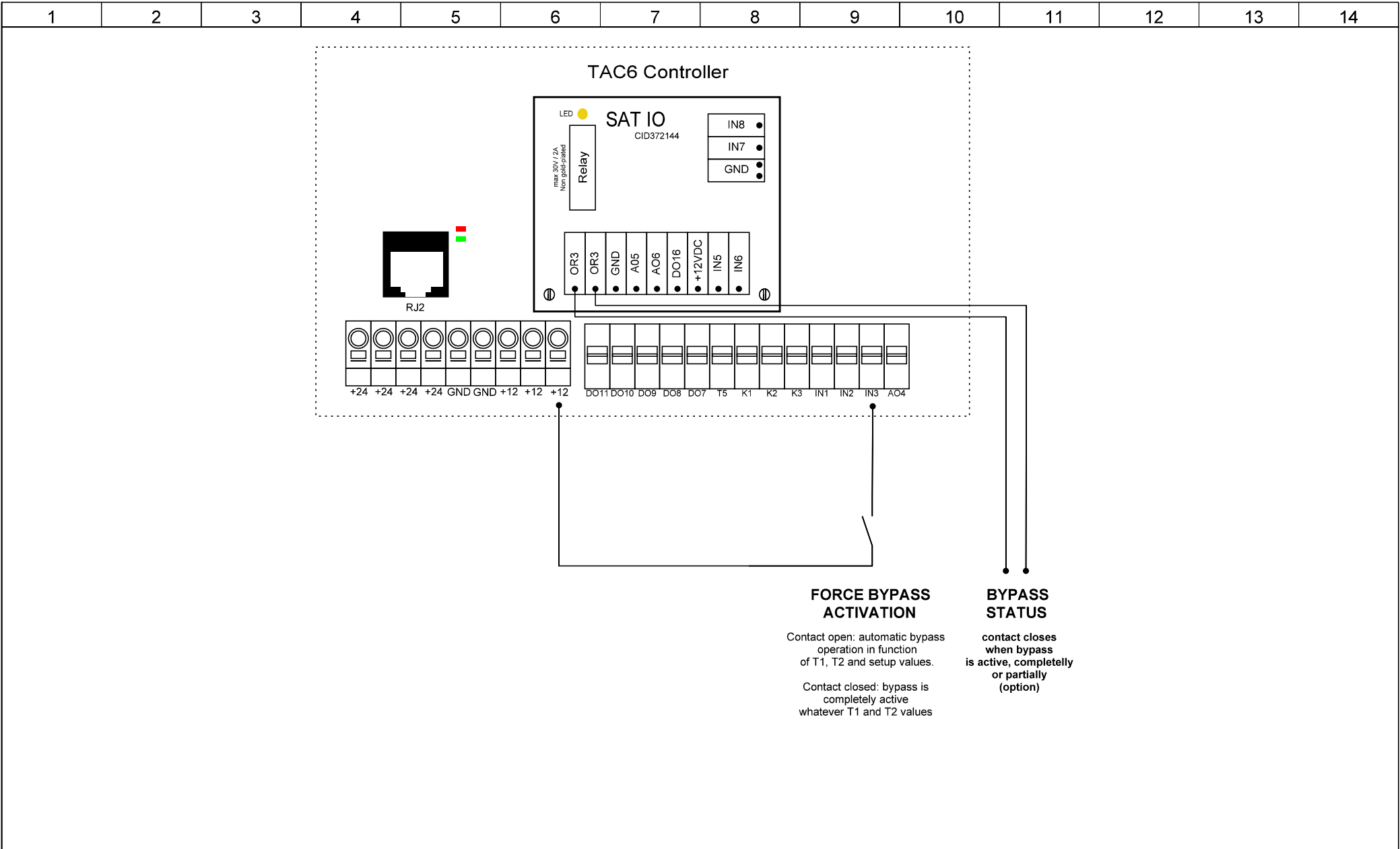
Changes			Name	Date	Configuration of function: Settings/Product settings/Input for Drain pump = yes	Page	
Name	Date	Draw.:	msg	10/03/2023		19	
		check.:					
		Norm:				Application: Condensate pump + RESISTOR	of
Subject:	GLOBAL_Wiring TAC6 rev 20230408.spl7				53		



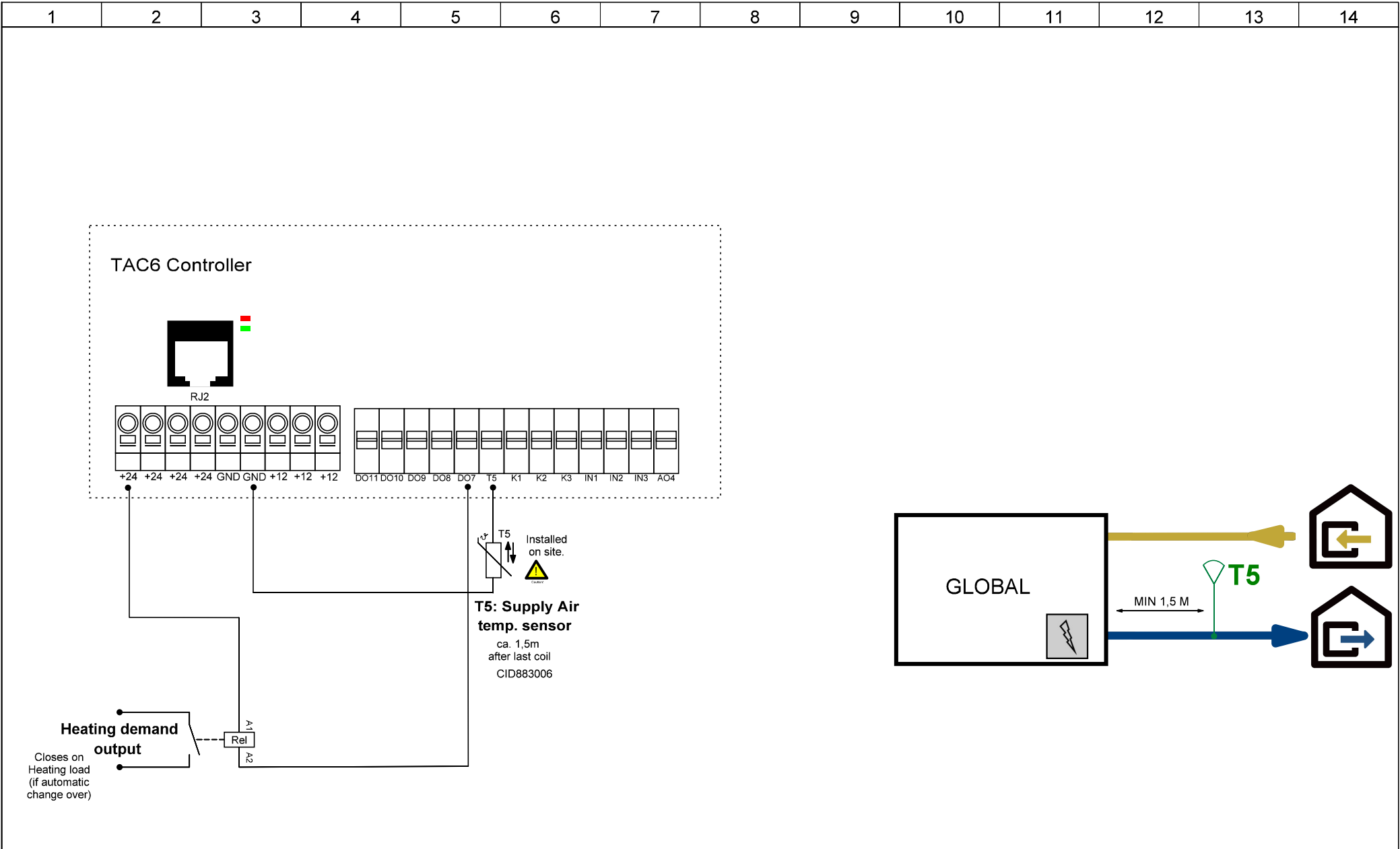
Changes			Name	Date	Configuration of function: Basic setup/Fire alarm	Page
Name	Date	Draw.:	msg	16/03/2021		20
		check.:				
		Norm:			Application: Fire alarm	of 53
Subject:	GLOBAL_Wiring TAC6 rev 20230408.spl7					



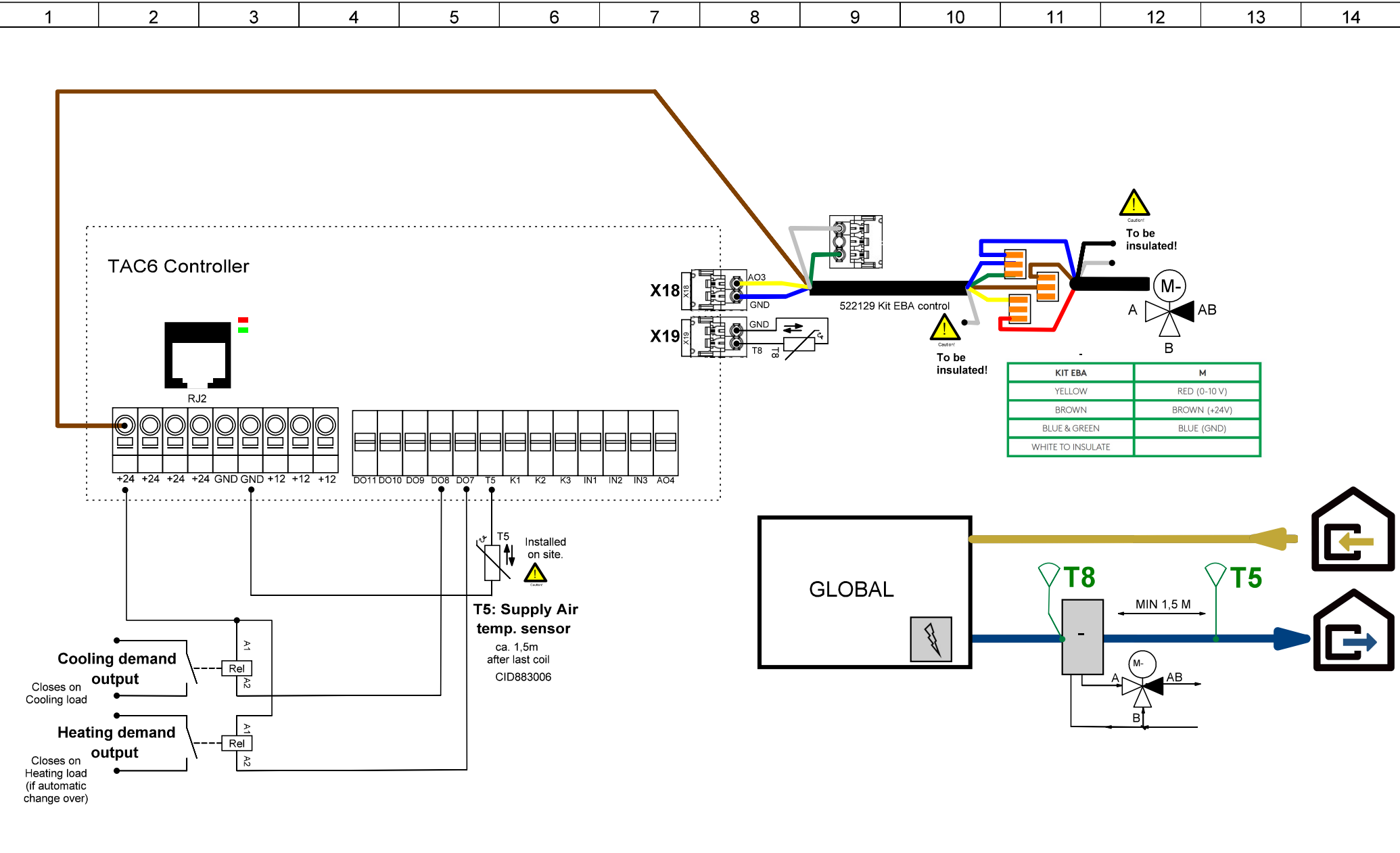
Changes			Name	Date	Configuration of function: Timeschedules configured Control screen of TACtouch: Speed selecion on 'AUTO'	Page
Name	Date	Draw.:	msg	24/06/2022		21
		check.:			Application: External Clock	of 53
		Norm:				
Subject:	GLOBAL_Wiring TAC6 rev 20230408.spl7					



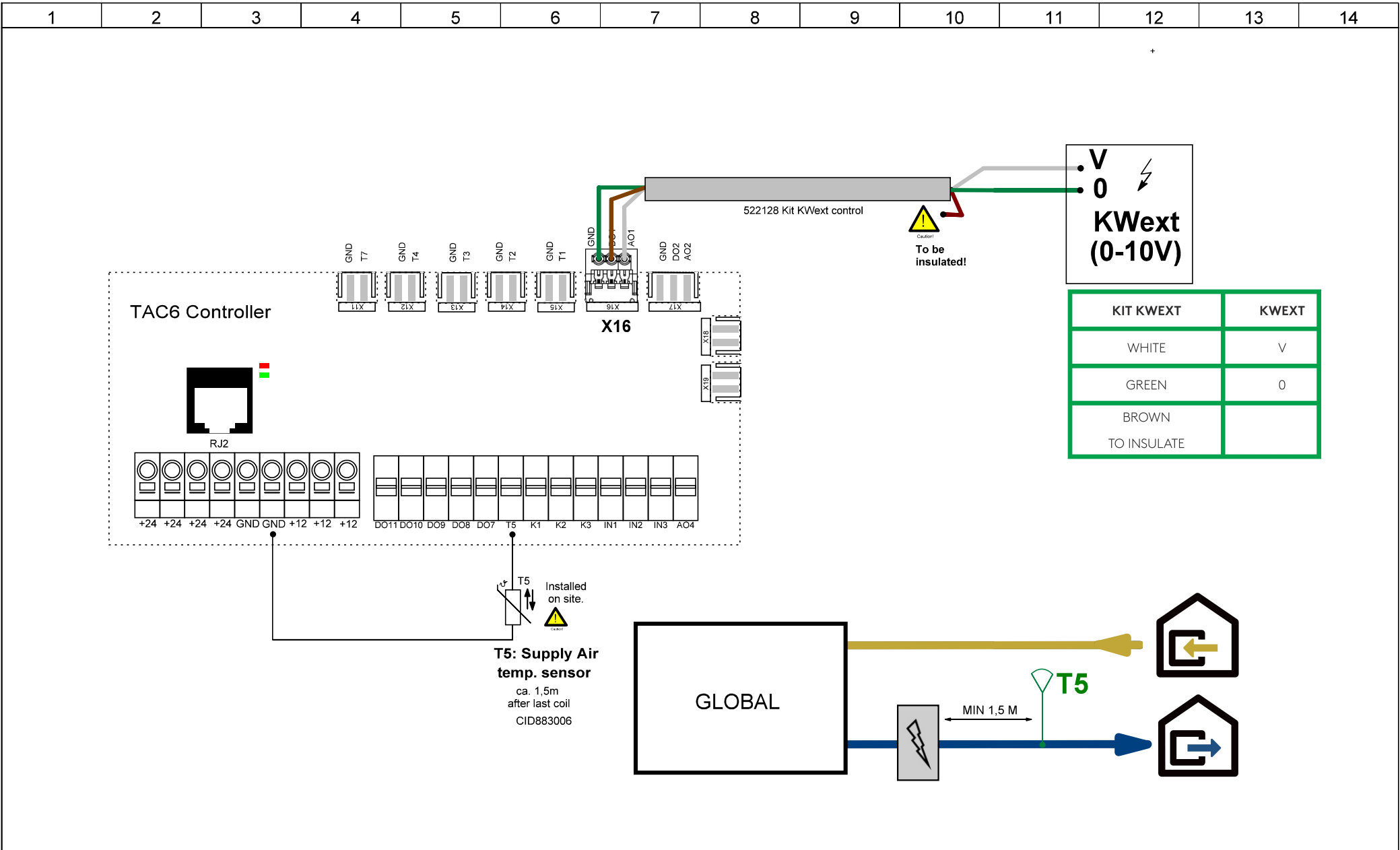
Changes			Name	Date	Configuration of function: Advanced setup/Freecooling	Page
Name	Date	Draw.:	msg	31/03/2021		22
		check.:				
		Norm:			Application: Freecooling	of 53
Subject:	GLOBAL_Wiring TAC6 rev 20230408.spl7					



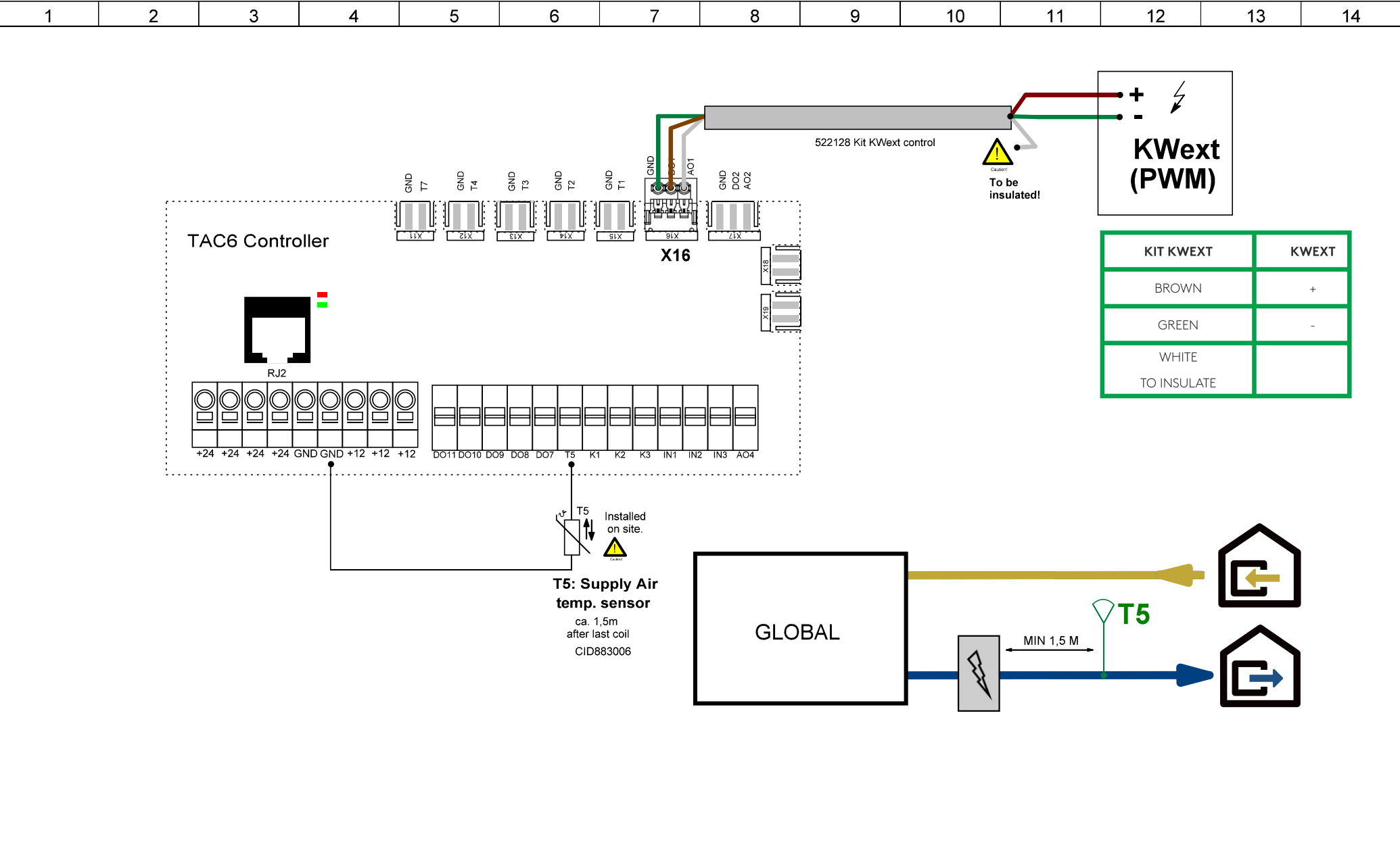
Changes			Name	Date	Configuration of function: Advanced setup / External coils & Internal coils	Page
Name	Date	Draw.:	msg	16/03/2021		25
		check.:			Application: Int. elec heating	of
		Norm:				53
Subject:	GLOBAL_Wiring TAC6 rev 20230408.spl7					



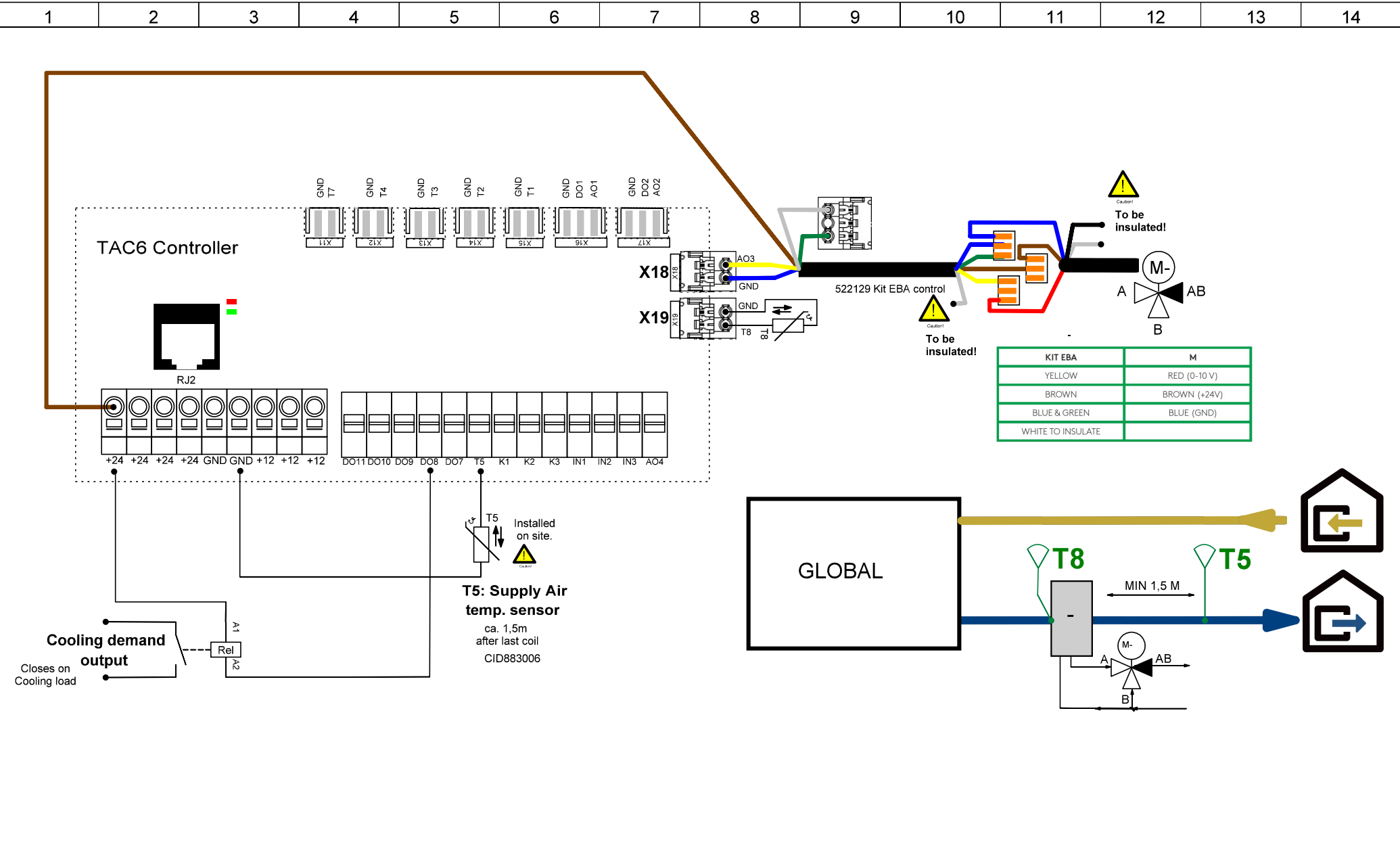
Changes			Name	Date	Configuration of function: Advanced setup / External coils & Internal coils	Page
Name	Date	Draw.:				26
		check.:				
		Norm.:			Application: Int. elec heating & Ext. cool	of
Subject:	GLOBAL_Wiring TAC6 rev 20230408.spl7					53



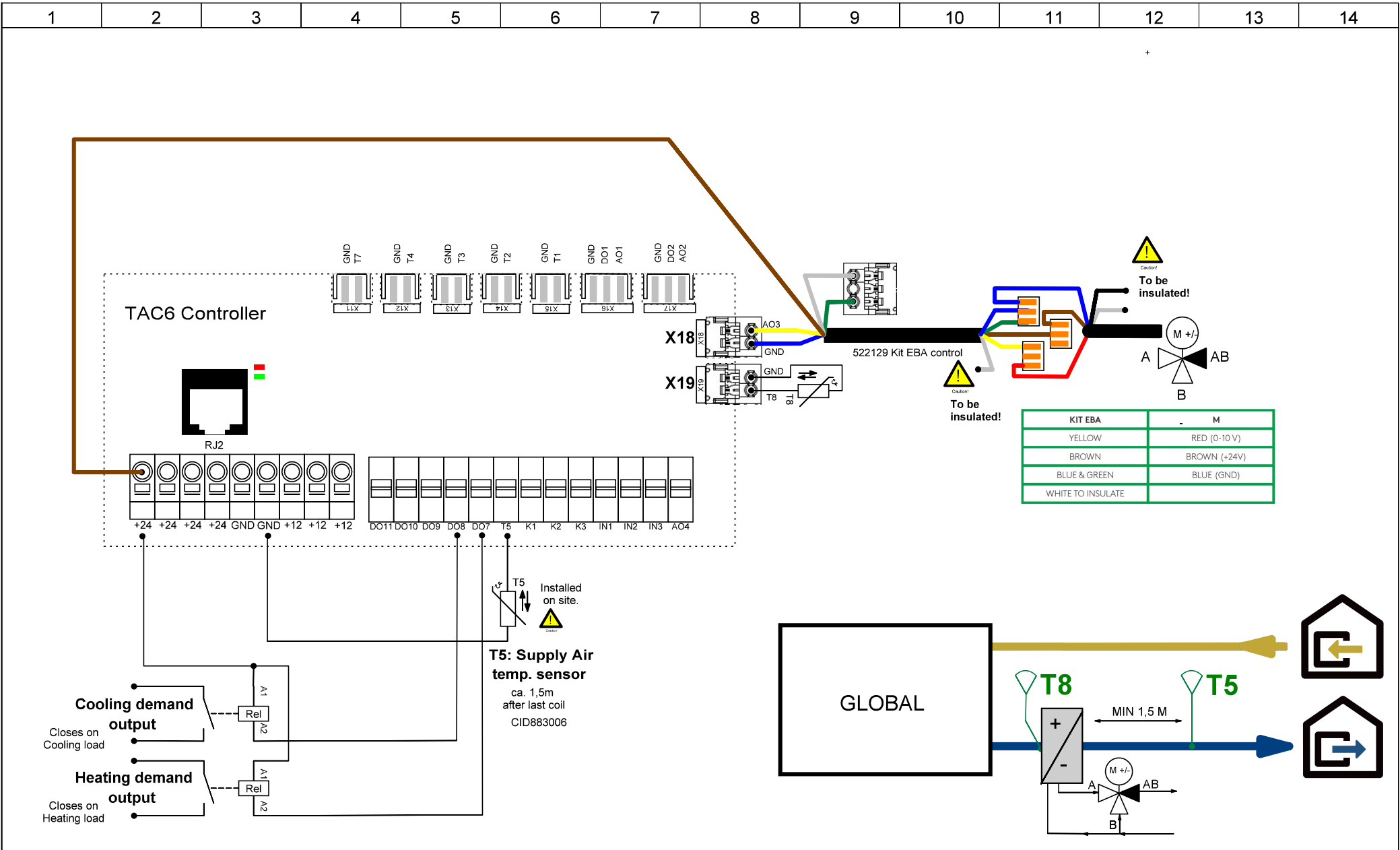
Changes			Name	Date	Configuration of function: Advanced setup / External coils / Electric (0-10V)	Page
Name	Date	Draw.:	msg	16/03/2021		27
		check.:				
		Norm:			Application: External elec. heating 0-10V	of
Subject:	GLOBAL_Wiring TAC6 rev 20230408.spl7					53



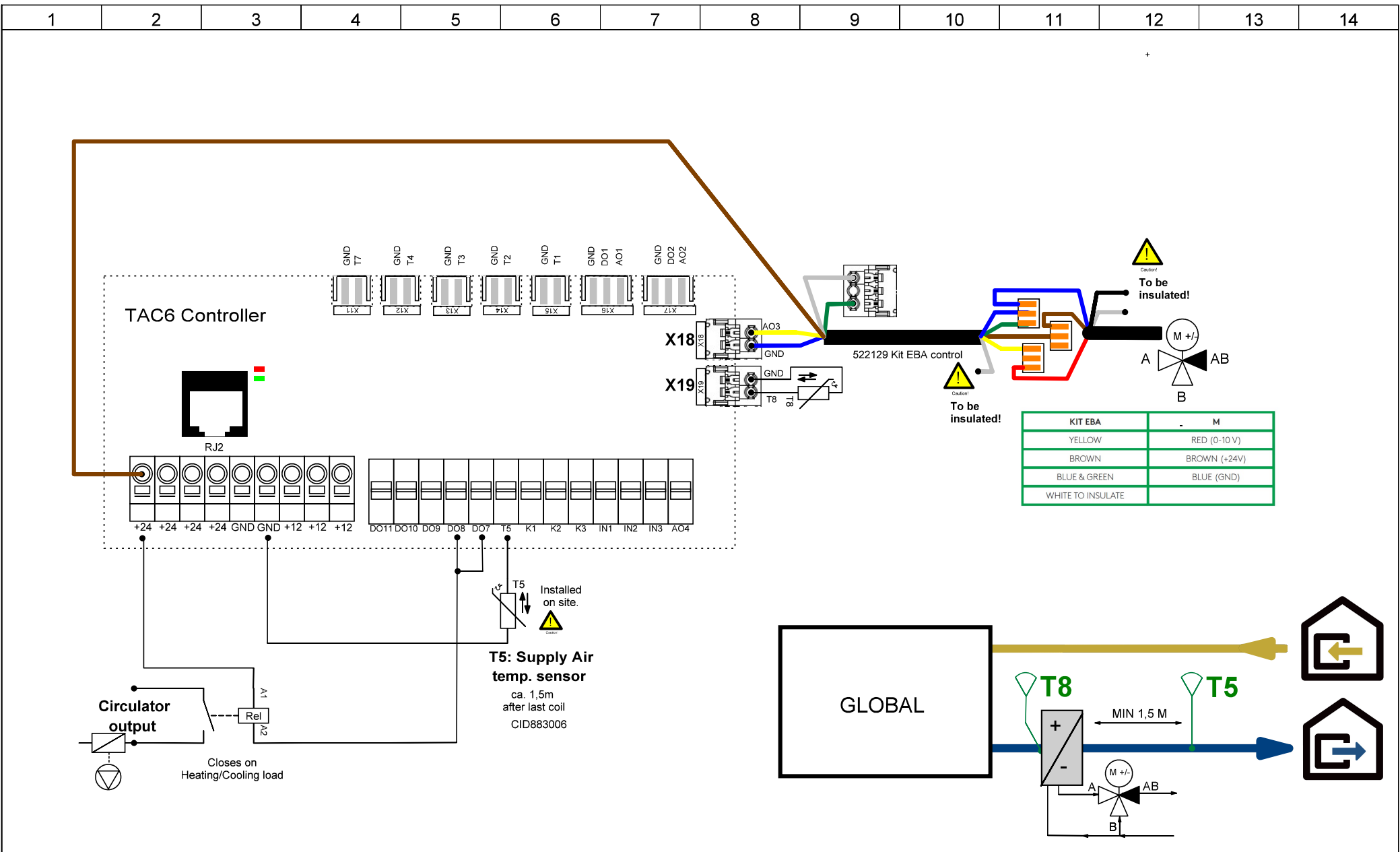
Changes			Name	Date	Configuration of function: Advanced setup / External coils / Electric (PWM)	Page
Name	Date	Draw.:	msg	16/03/2021		28
		check.:			Application: External elec. heating PWM	of
		Norm:				53
Subject:		GLOBAL_Wiring TAC6 rev 20230408.spl7				



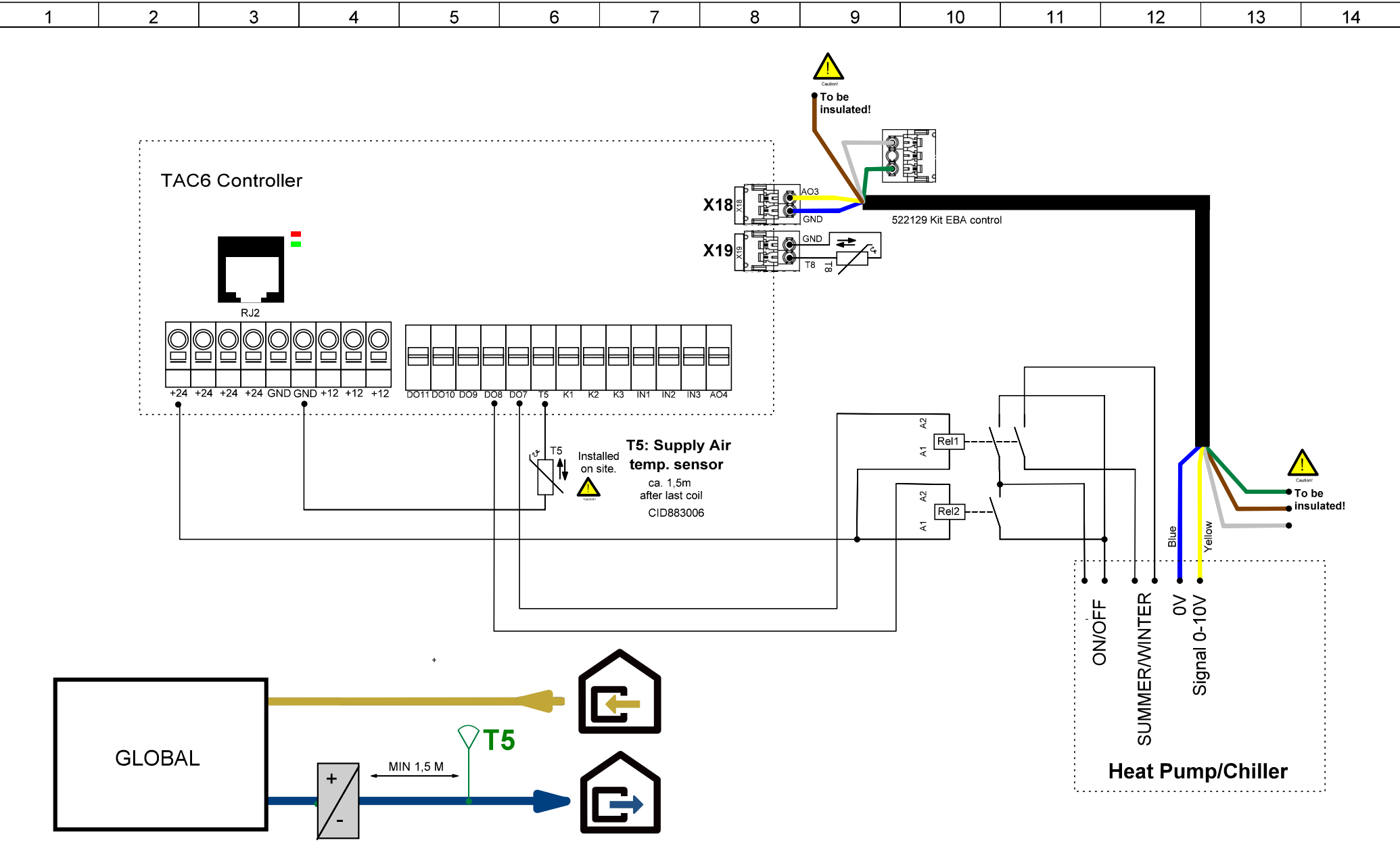
Changes			Name	Date	Configuration of function: Advanced setup / External coils / Cooling	Page	
Name	Date	Draw.:	msg	16/03/2021		29	
		check.:					
		Norm:				Application:	of
Subject:	GLOBAL_Wiring TAC6 rev 20230408.spl7				External cooling coil	53	



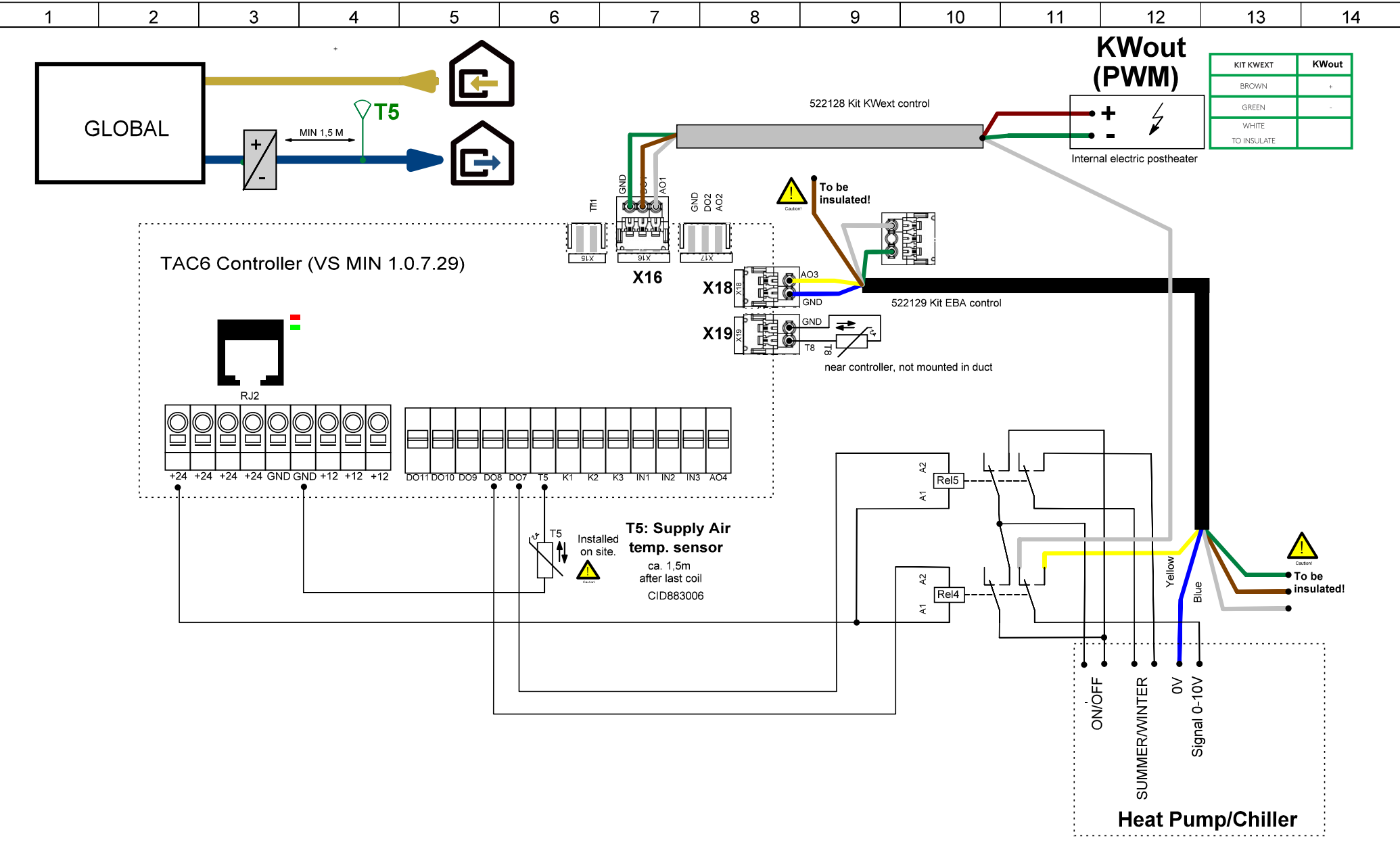
Changes		Name		Date	Configuration of function: Advanced setup / External coils / Reversible	Page
Name	Date	Draw.:	msg	16/03/2021		30
		check.:				
		Norm:			Application: Reversible battery	of 53
Subject:	GLOBAL_Wiring TAC6 rev 20230408.spl7					



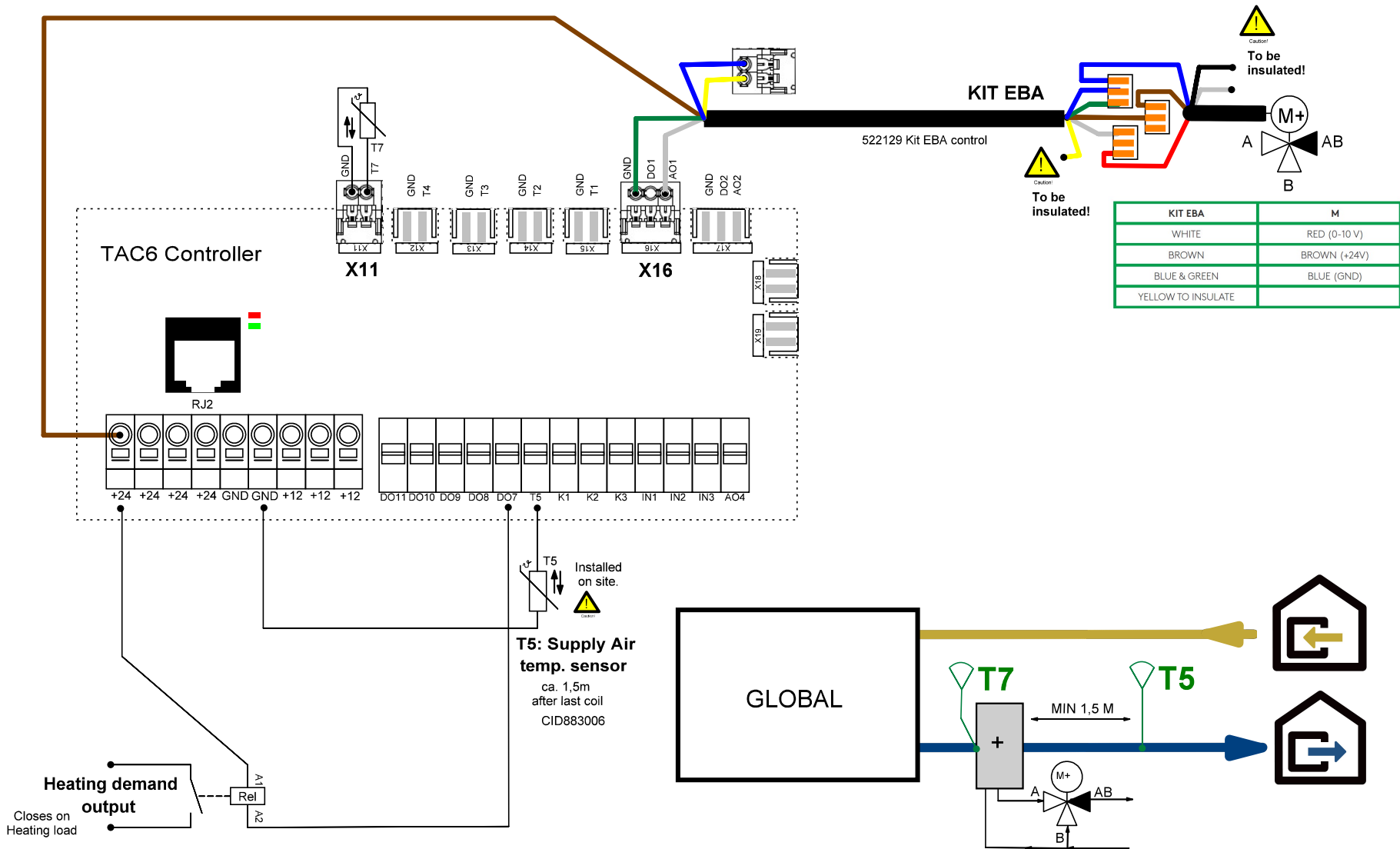
Changes			Name	Date	Configuration of function: Advanced setup / External coils / Reversible	Page
Name	Date	Draw.:	msg	16/03/2021		31
		check.:				
		Norm:			Application: Reversible battery with 1 circulator	of
Subject:	GLOBAL_Wiring TAC6 rev 20230408.spl7					53



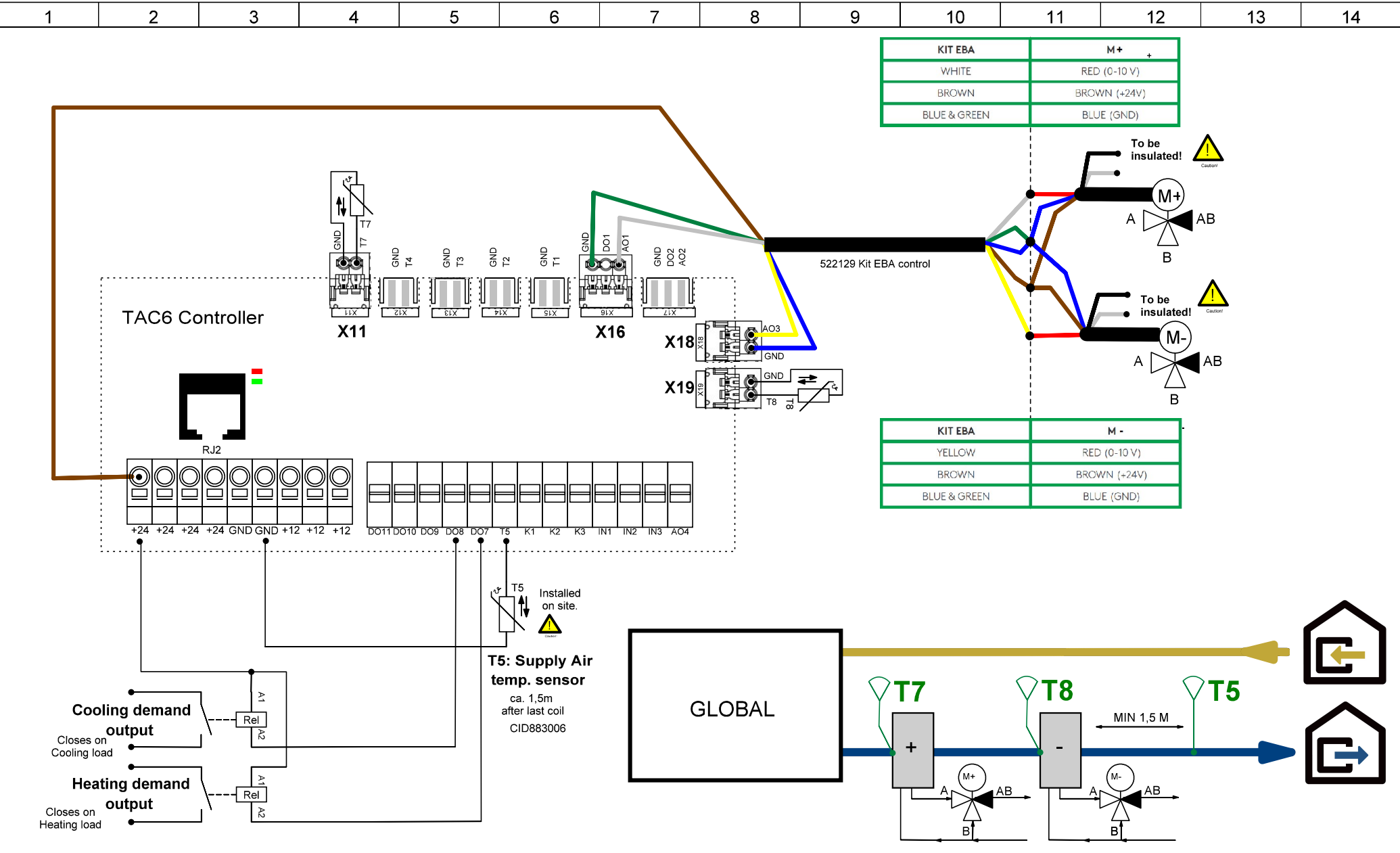
Changes			Name	Date	Configuration of function: Advanced setup / External coils / Reversible	Page
Name	Date	Draw.:	msg	11/05/2021		32
		check.:			Application: Heat pump/Chiller	of
		Norm:				53
Subject:	GLOBAL_Wiring TAC6 rev 20230408.spl7					



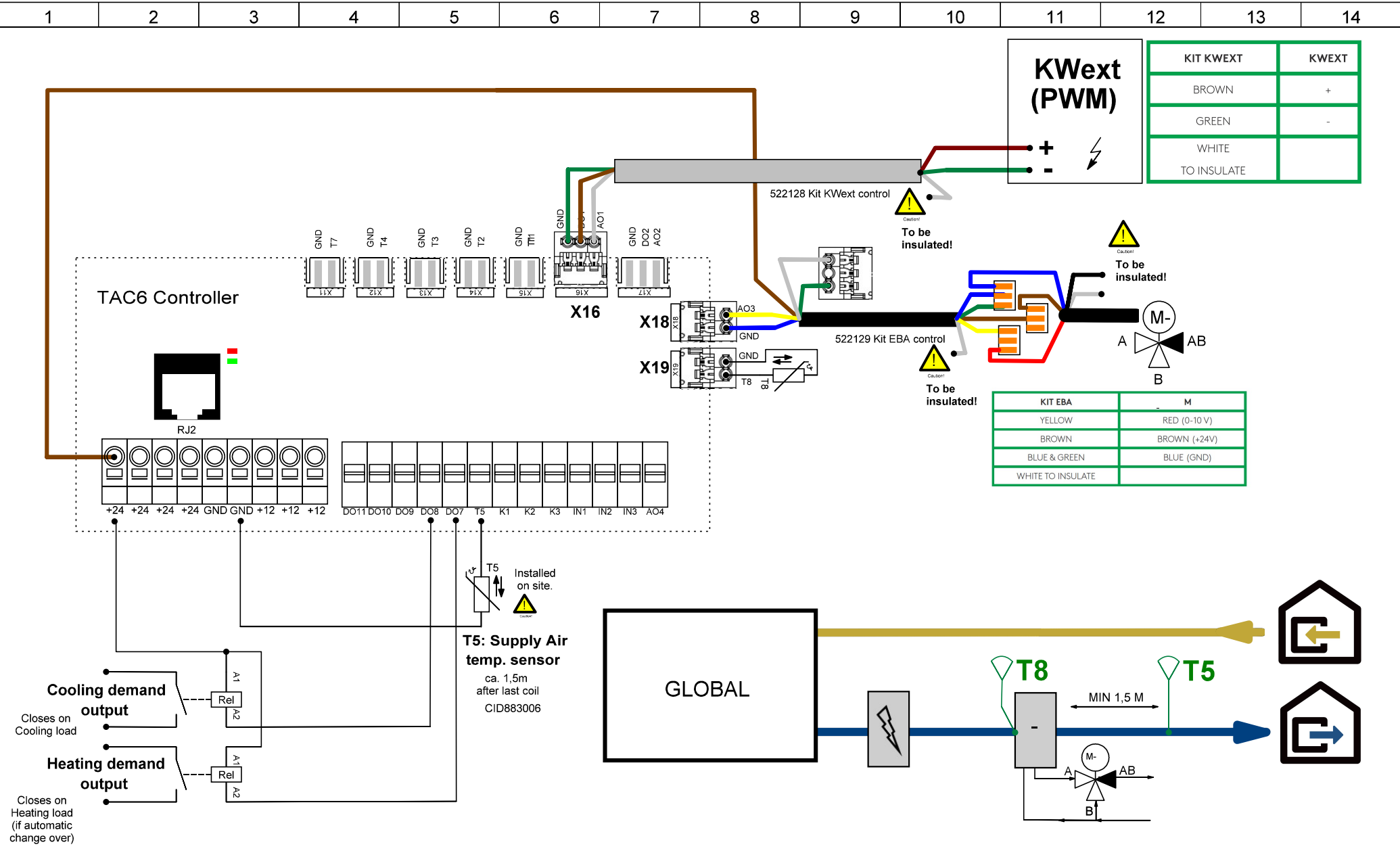
Changes			Name	Date	Configuration of function: Product Setup: KWout Advanced setup / External coils / Electrical 0-10V + Cold water Advanced setup /Changeover: yes; neutral band: at least 1°C	Page	
Name	Date	Draw.:	msg	17/12/2021		33	
		check.:					
		Norm:				Application: Heat pump/Chiller	of
Subject:	GLOBAL_Wiring TAC6 rev 20230408.spl7				53		



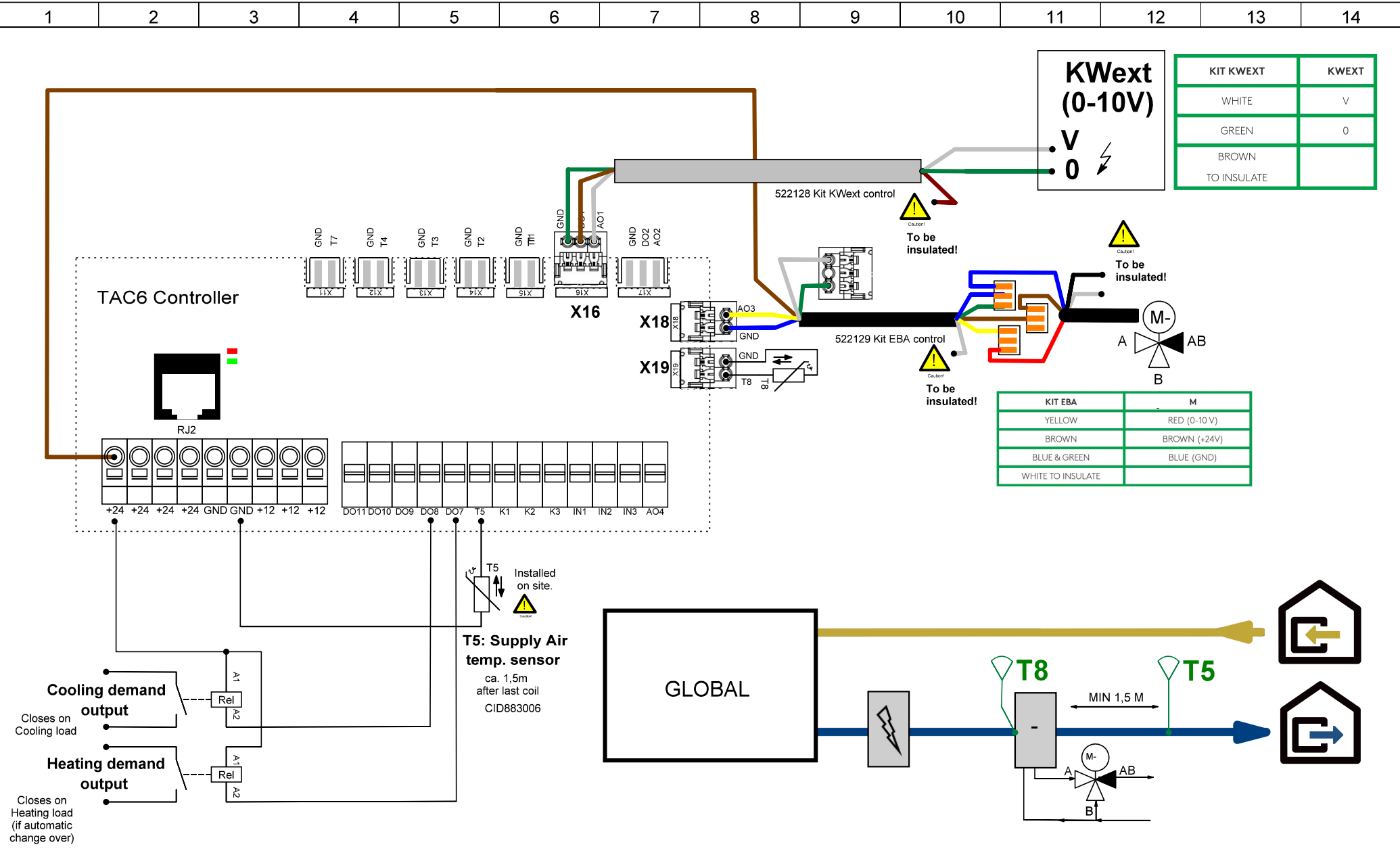
Changes			Name	Date	Configuration of function: Advanced setup / External coils / Hot water	Page
Name	Date	Draw.:	msg	16/03/2021		34
		check.:			Application: External heating coil	of
		Norm:				53
Subject:	GLOBAL_Wiring TAC6 rev 20230408.spl7					



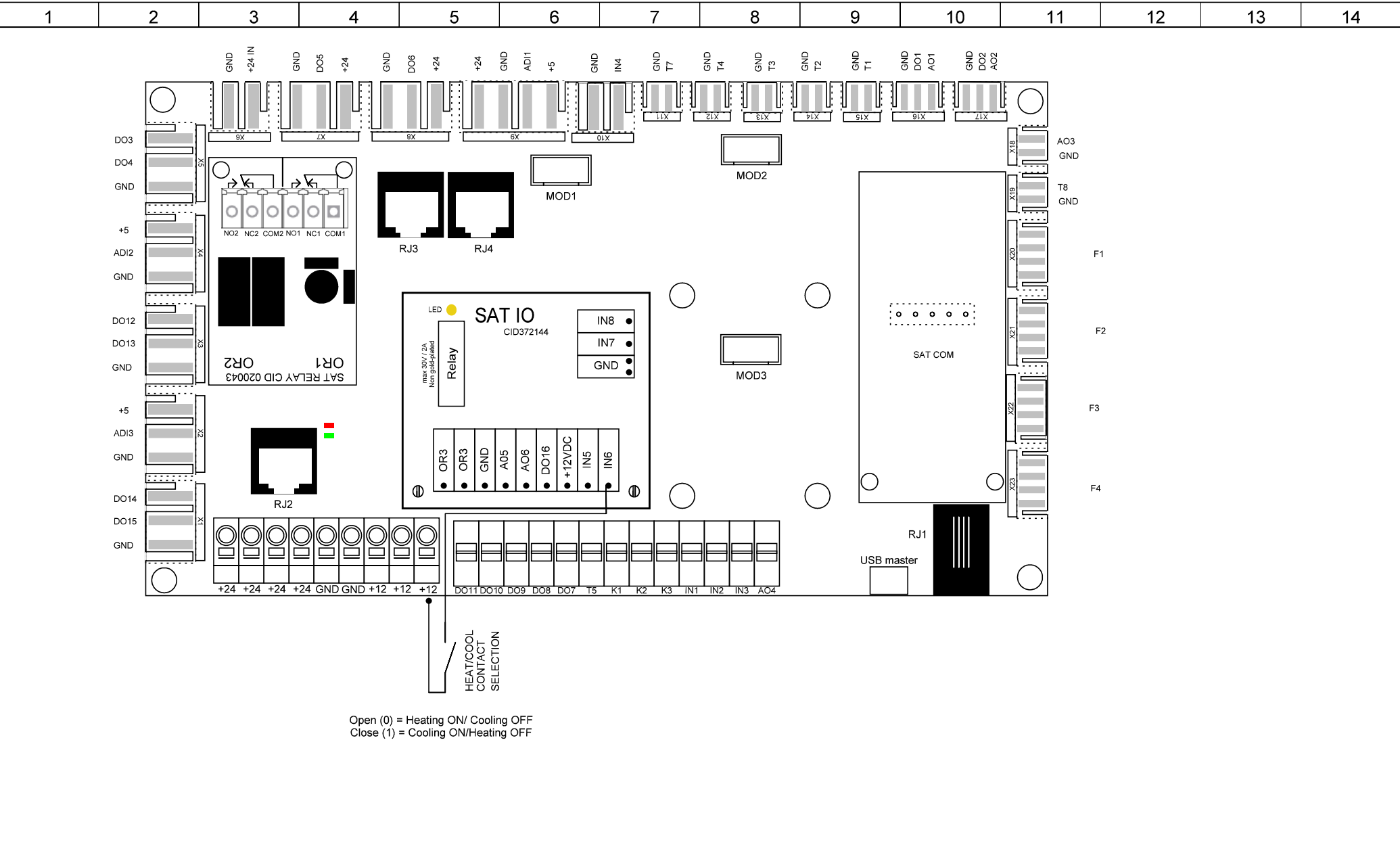
Changes		Name	Date	Configuration of function:	Page
Name	Date	Draw.: msg	16/03/2021	Advanced setup / External coils / Hot water + Cold water	35
		check.:			
		Norm:		Application:	of
Subject:	GLOBAL_Wiring TAC6 rev 20230408.spl7			Ext. heating & Ext. Cooling 1 (use of 1 EBA cable)	53



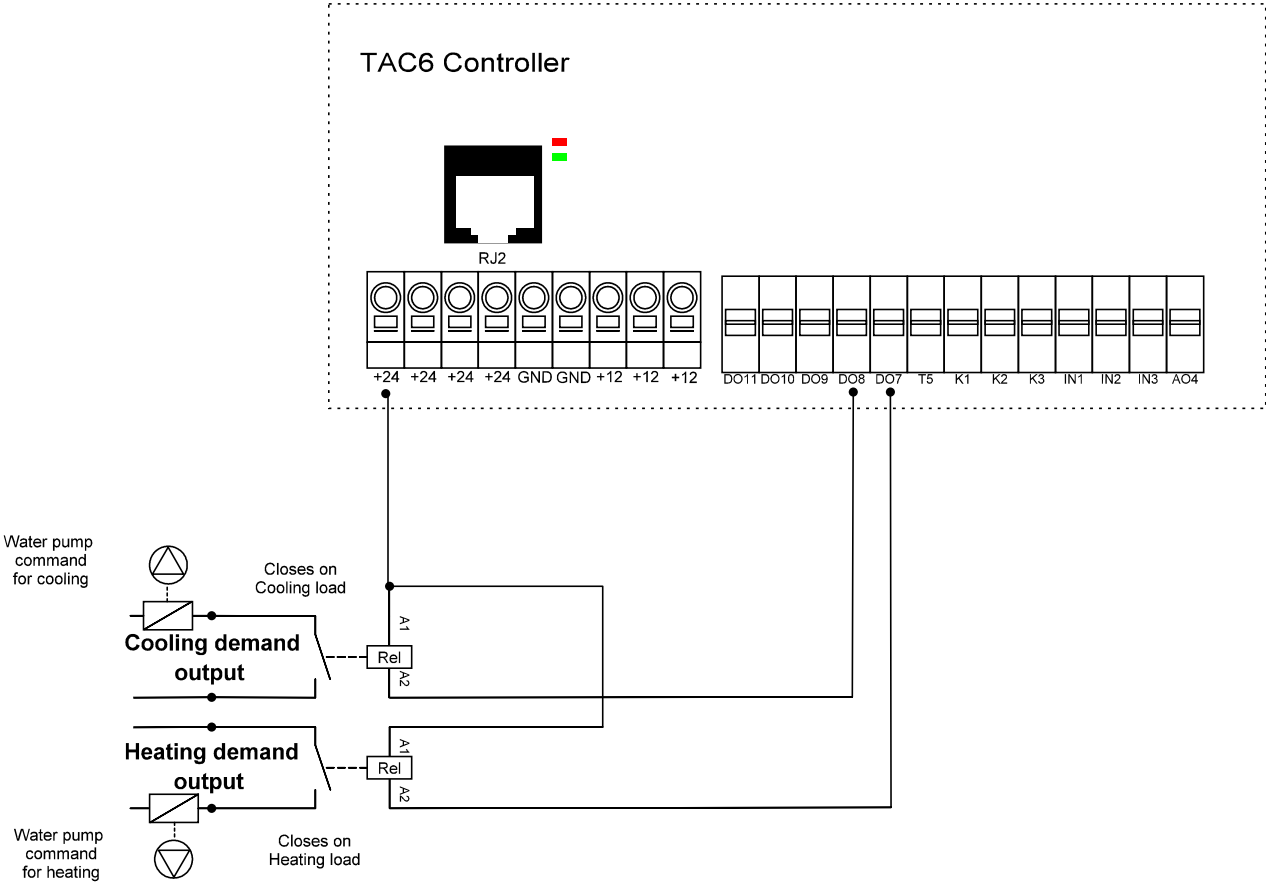
Changes			Name	Date	Configuration of function: Advanced setup / External coils / Electrical PWM + Cold water	Page
Name	Date	Draw.:	msg	16/03/2021		37
		check.:				
		Norm:			Application:	of
Subject:	GLOBAL_Wiring TAC6 rev 20230408.spl7				Ext.elect. heating & Ext. Cool	53



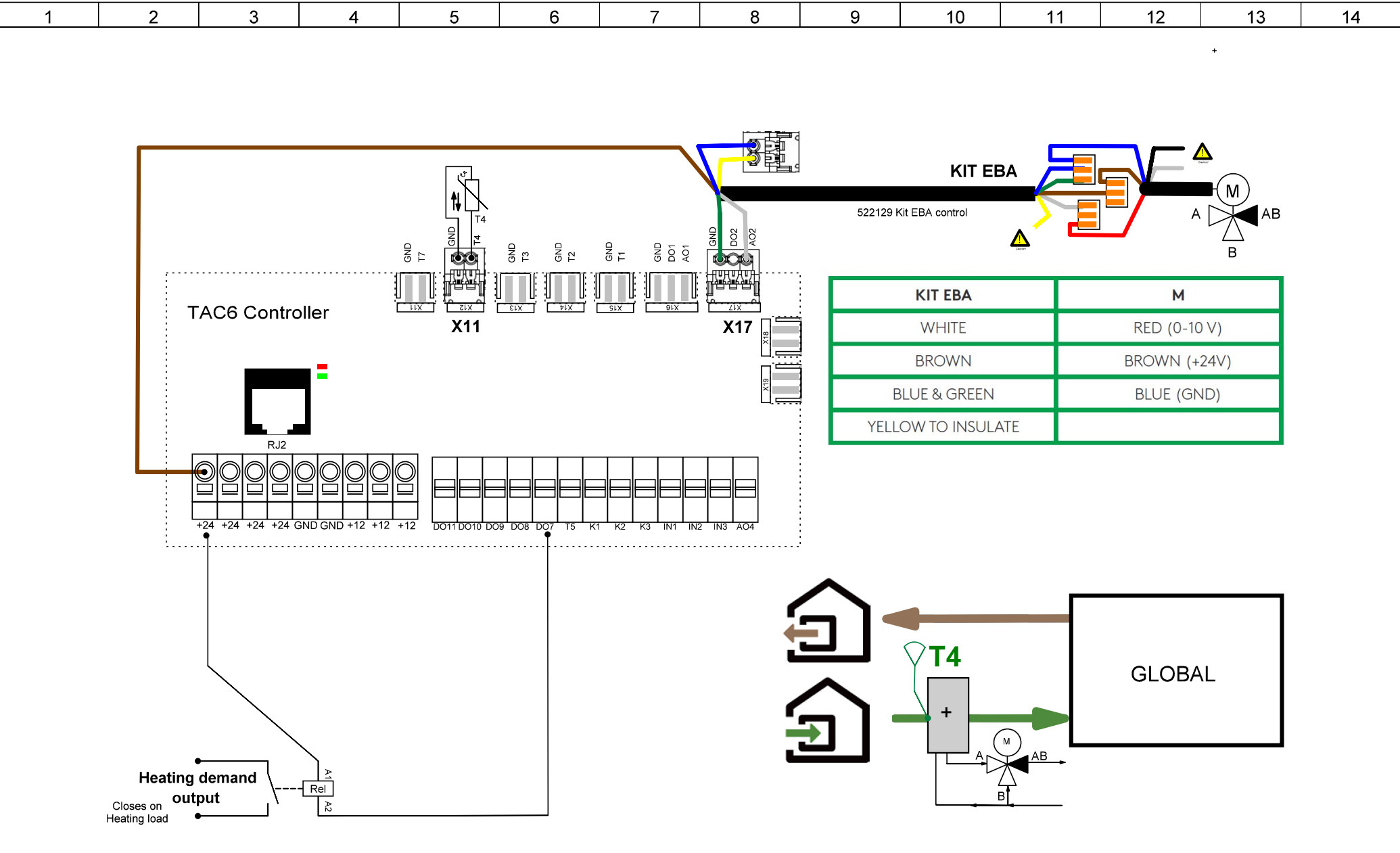
Changes			Name	Date	Configuration of function: Advanced setup / External coils / Electrical 0-10V + Cold water	Page
Name	Date	Draw.:	msg	16/03/2021		38
		check.:				
		Norm:			Application: Ext.elec. 0-10V & Ext. cool	of
Subject:	GLOBAL_Wiring TAC6 rev 20230408.spl7					53



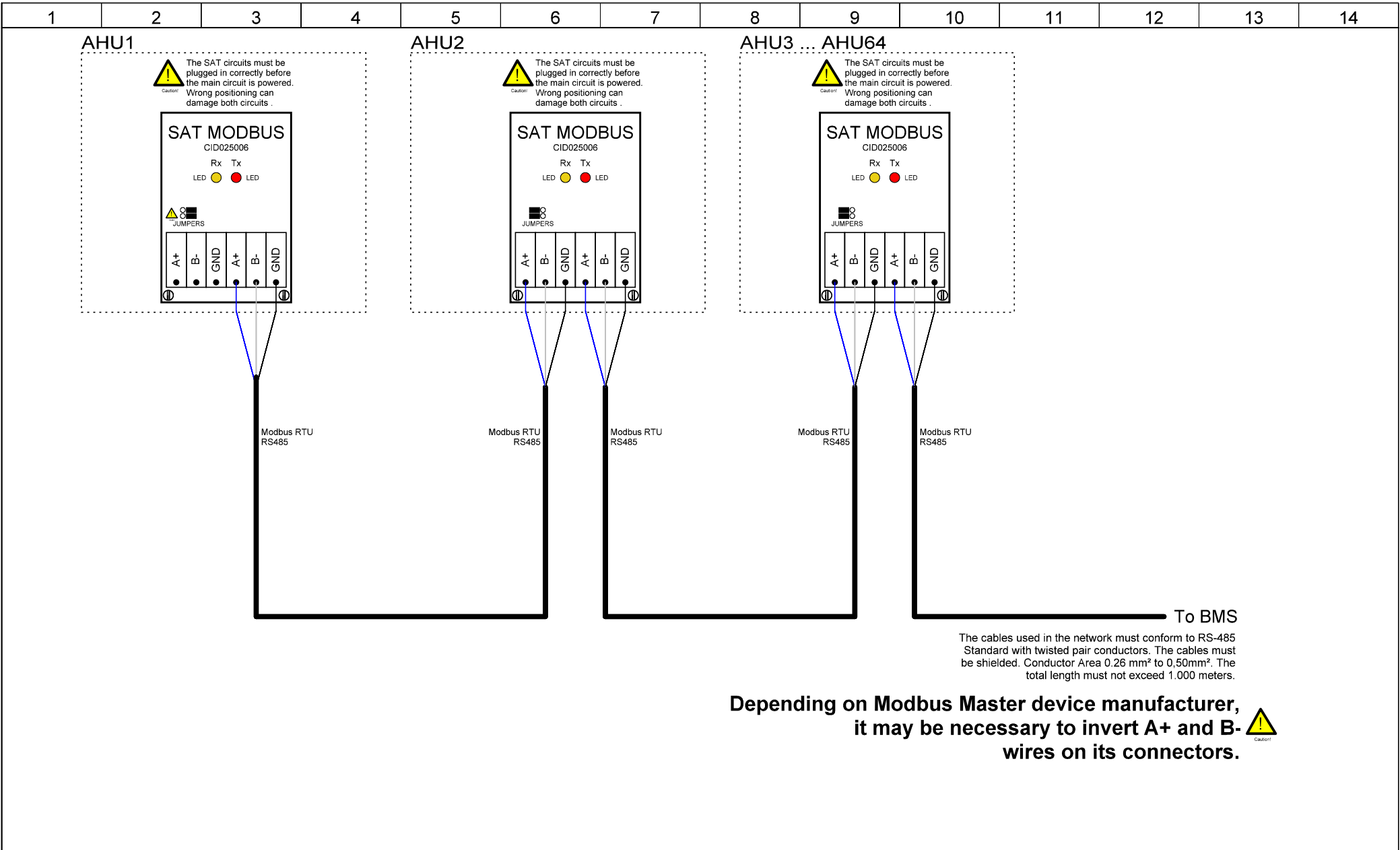
Changes			Name	Date	Selection of heating/cooling in presence of postheater/postcooler. In alternative to heat/cool selection via: - TACtouch control screen button for heat/coo user selection - Automatic changeover - BMS heat/cool selection control	Page
Name	Date	Draw.:	msg	16/03/2021		39
		check.:			Application: HEAT/COOL CONTACT SELECTION	of 53
		Norm:				
Subject:	GLOBAL_Wiring TAC6 rev 20230408.spl7					



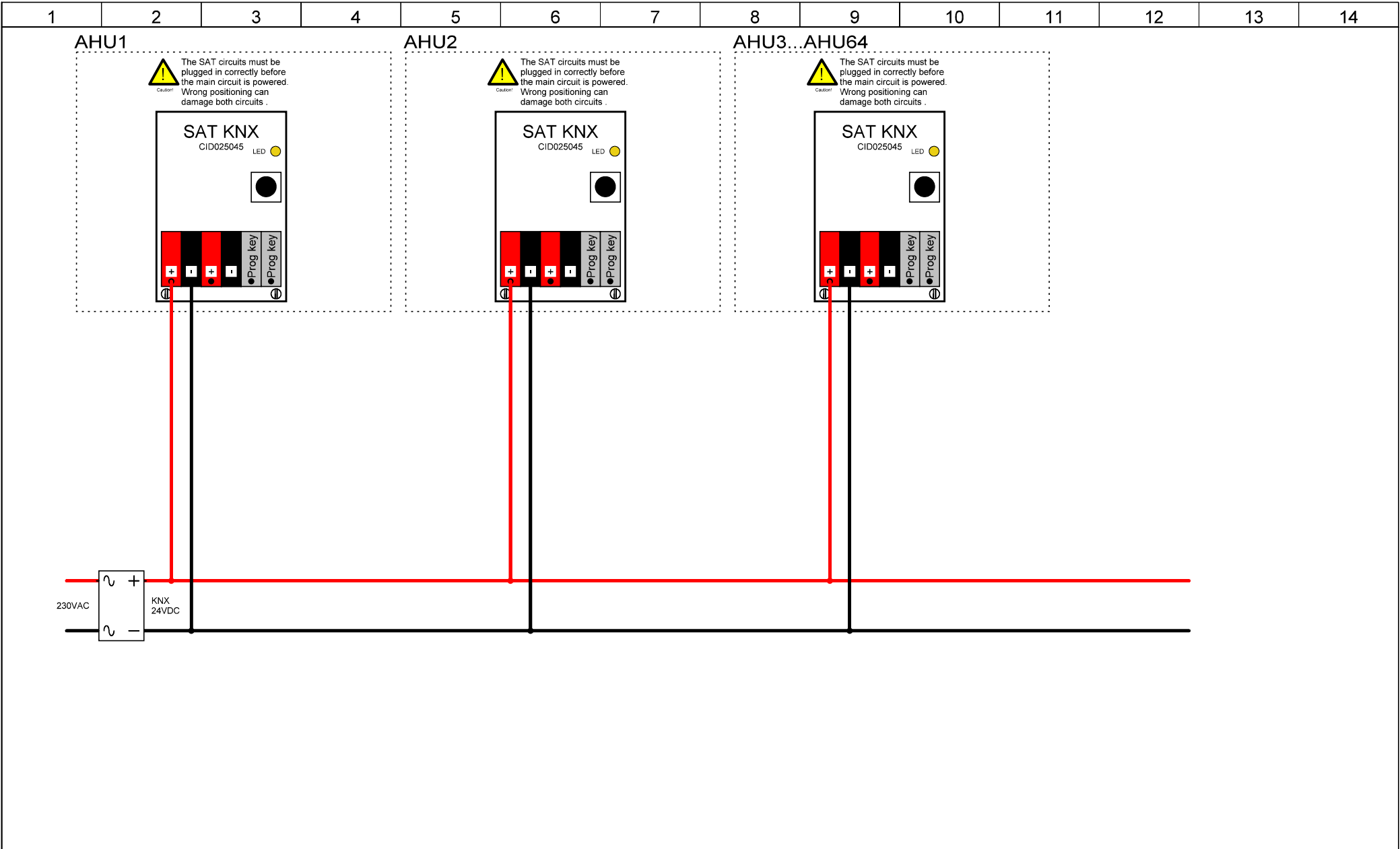
Changes			Name	Date	Configuration of function:	Page
Name	Date	Draw.:	msg	16/03/2021		40
		check.:				
		Norm:			Application: Circulator pump (with hydraulic coils)	of
Subject:	GLOBAL_Wiring TAC6 rev 20230408.sp17					53

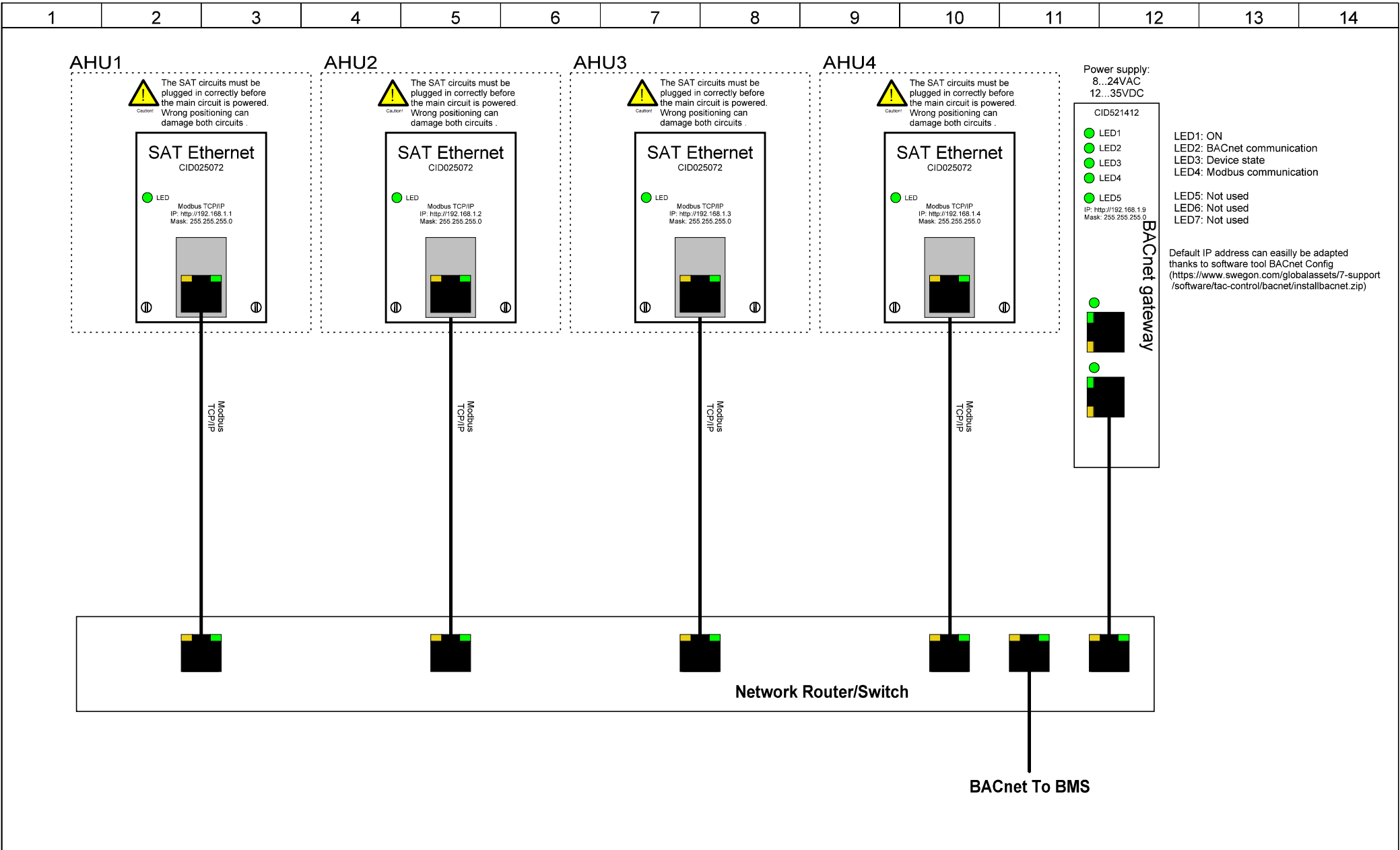


Changes			Name	Date	Configuration of function: Product setup / Preheater = BAin	Page
Name	Date	Draw.:	msg	16/03/2021		41
		check.:				
		Norm:			Application: External Hydraulic Preheater	of
Subject:	GLOBAL_Wiring TAC6 rev 20230408.spl7					53

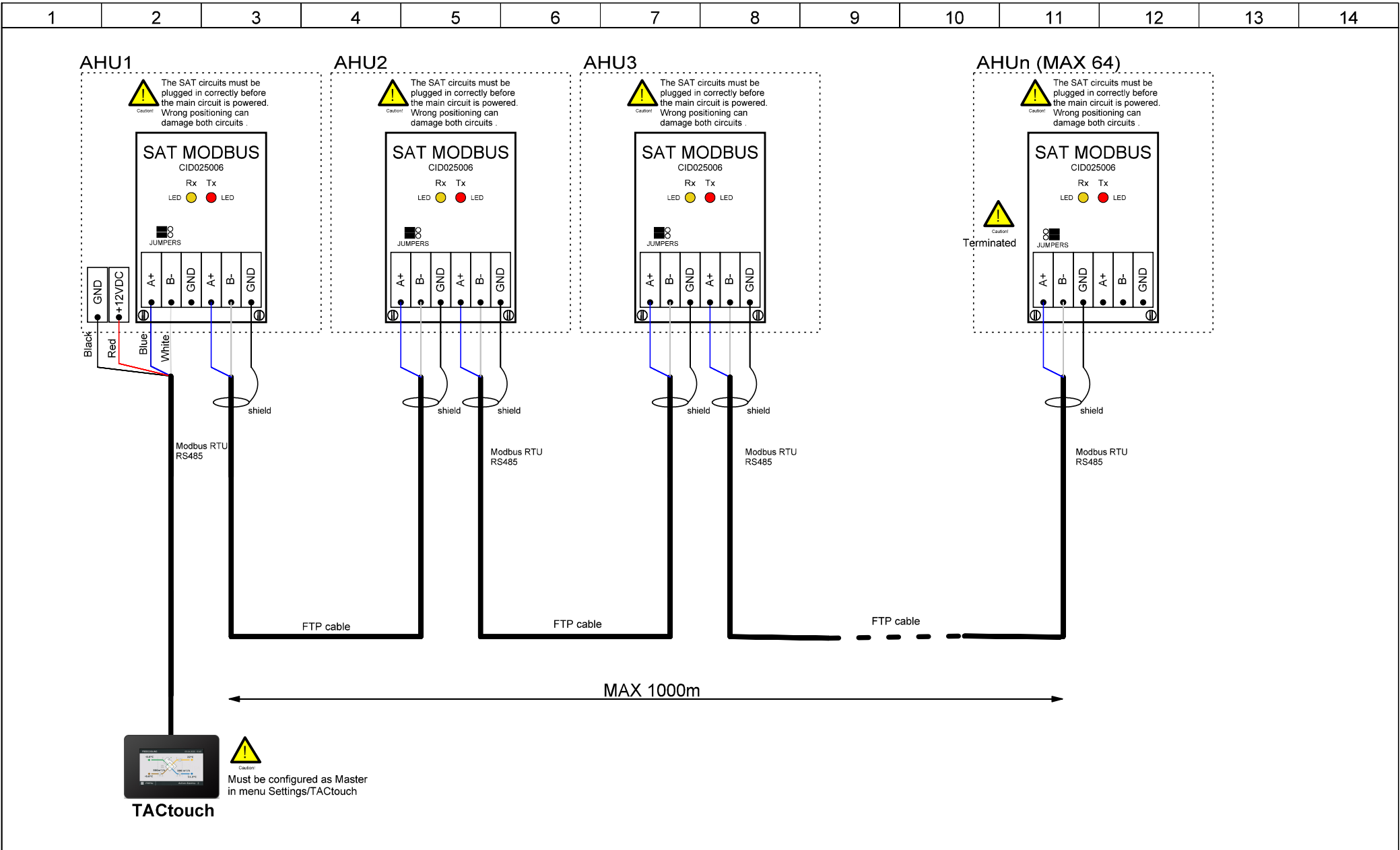


Changes			Name	Date	Configuration of function: Advanced setup/ Modbus	Page
Name	Date	Draw.:	msg	16/03/2021		42
		check.:				
		Norm:			Application: Modbus RTU	of 53
Subject:	GLOBAL_Wiring TAC6 rev 20230408.spl7					

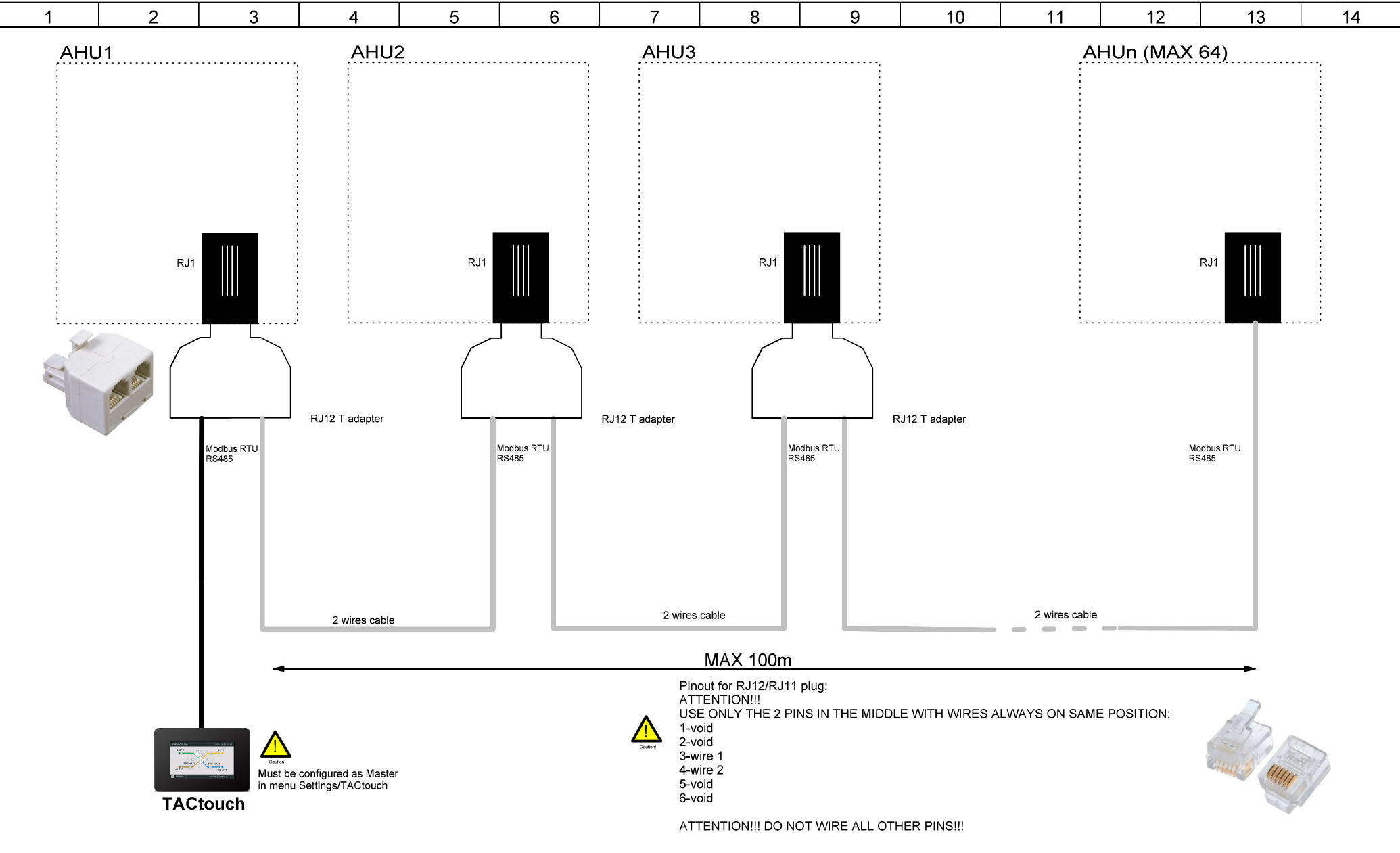




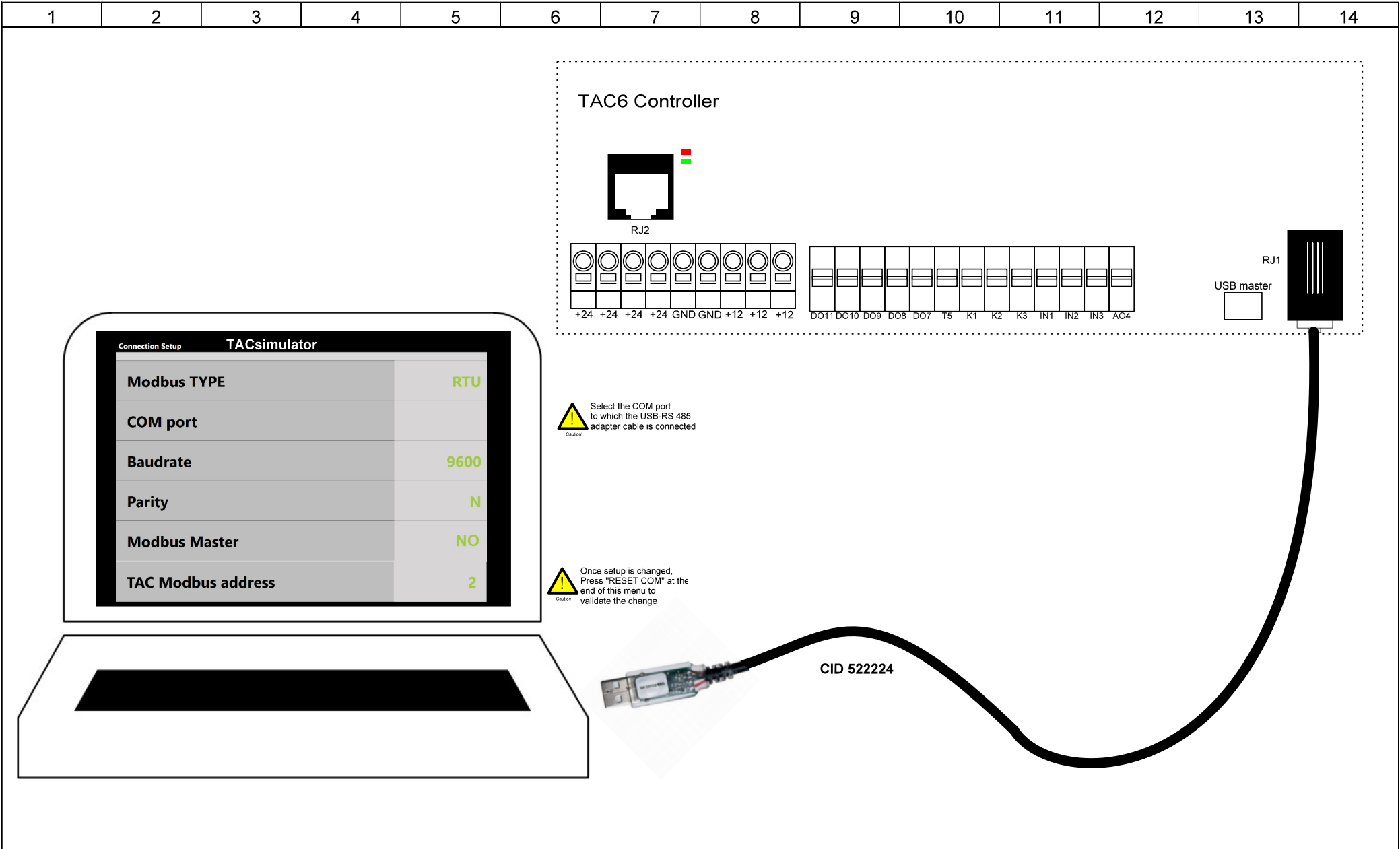
Changes		Name		Date	Configuration of function: Advanced setup/ SAT LAN	Page
Name	Date	Draw.:	msg	16/03/2021		44
		check.:				
		Norm:			Application: BACnet	of 53
Subject:	GLOBAL_Wiring TAC6 rev 20230408.spl7					

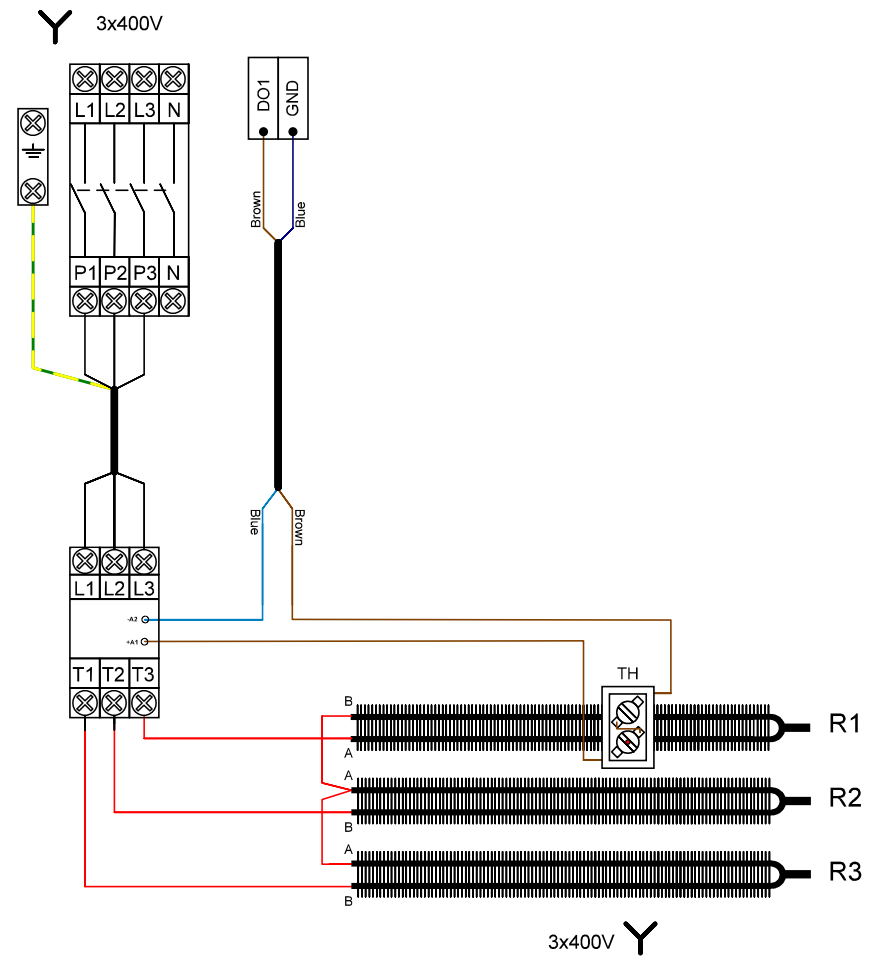
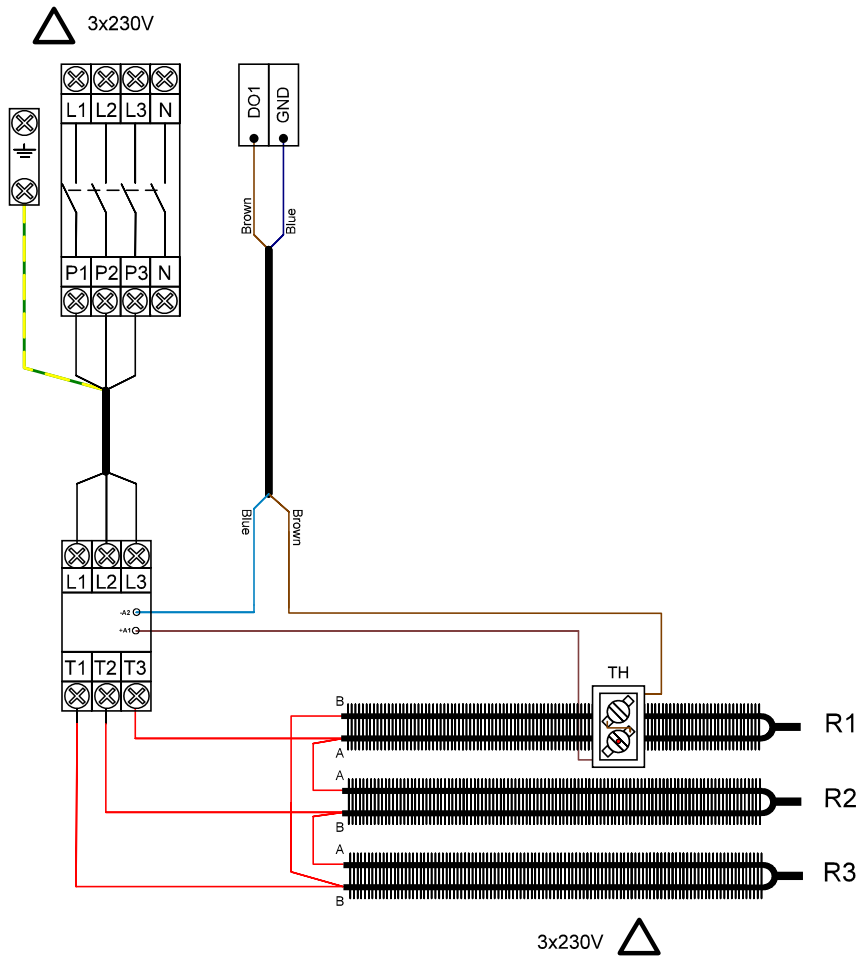


Changes			Name	Date	Configuration of function: TACtouch setup: TACtouch Master Network Screen	Page
Name	Date	Draw.:	msg	16/03/2021		45
		check.:				
		Norm:			Application: TACtouch centralised	of 53
Subject:	GLOBAL_Wiring TAC6 rev 20230408.spl7					



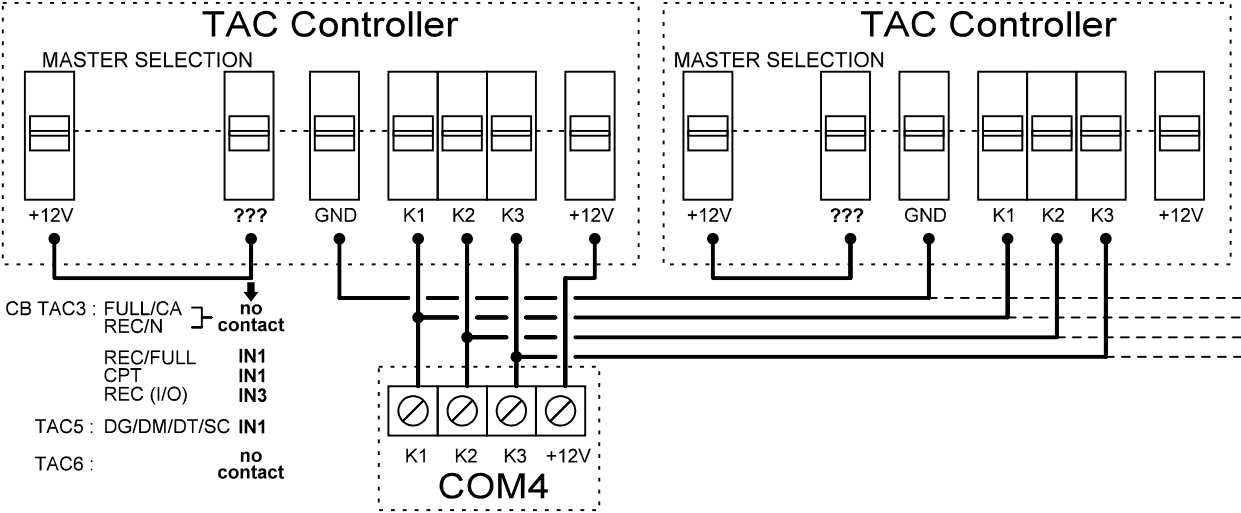
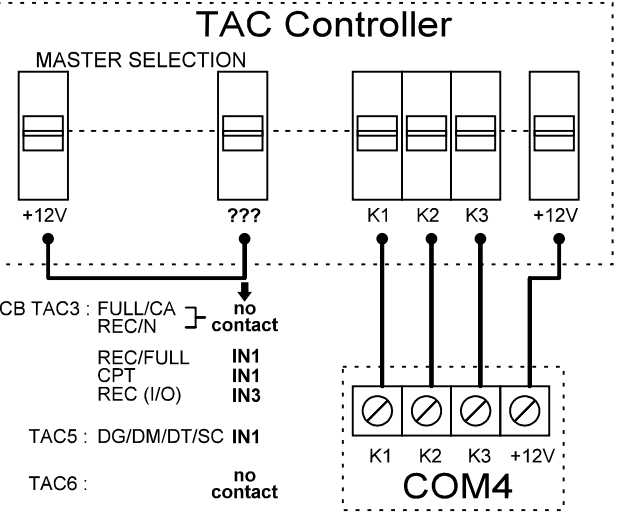
Changes			Name	Date	Configuration of function: Product setup: configure HMI port with correct address TACtouch setup: TACtouch Master Network Screen	Page
Name	Date	Draw.:	msg	16/03/2021		46
		check.:				
		Norm:			Application: TACtouch centralised short	of 53
Subject:	GLOBAL_Wiring TAC6 rev 20230408.spl7					

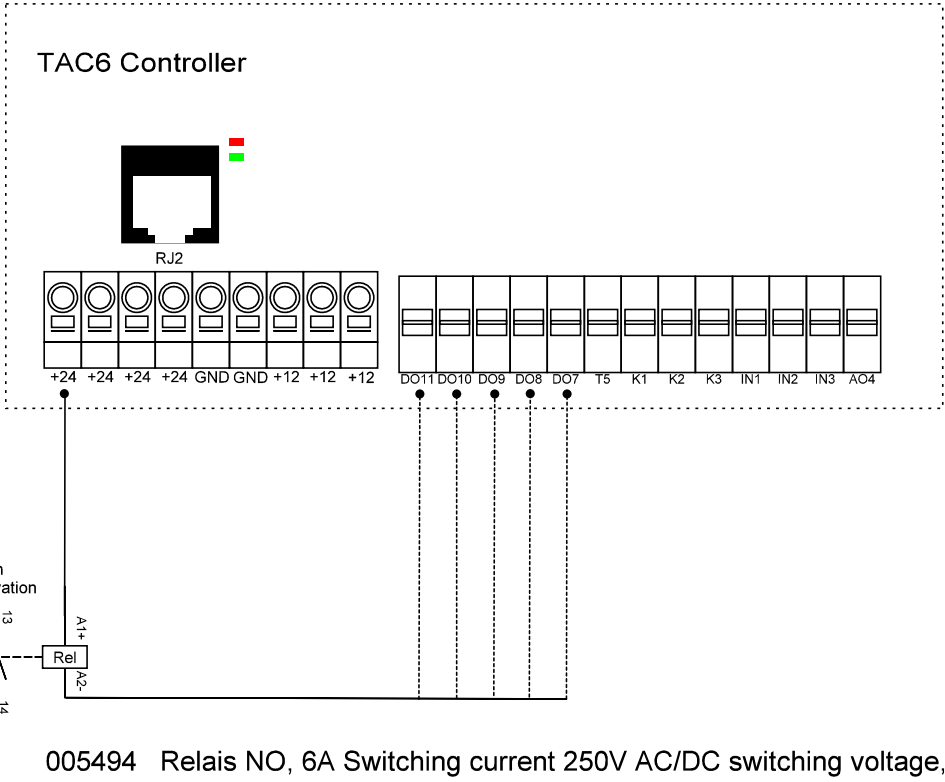




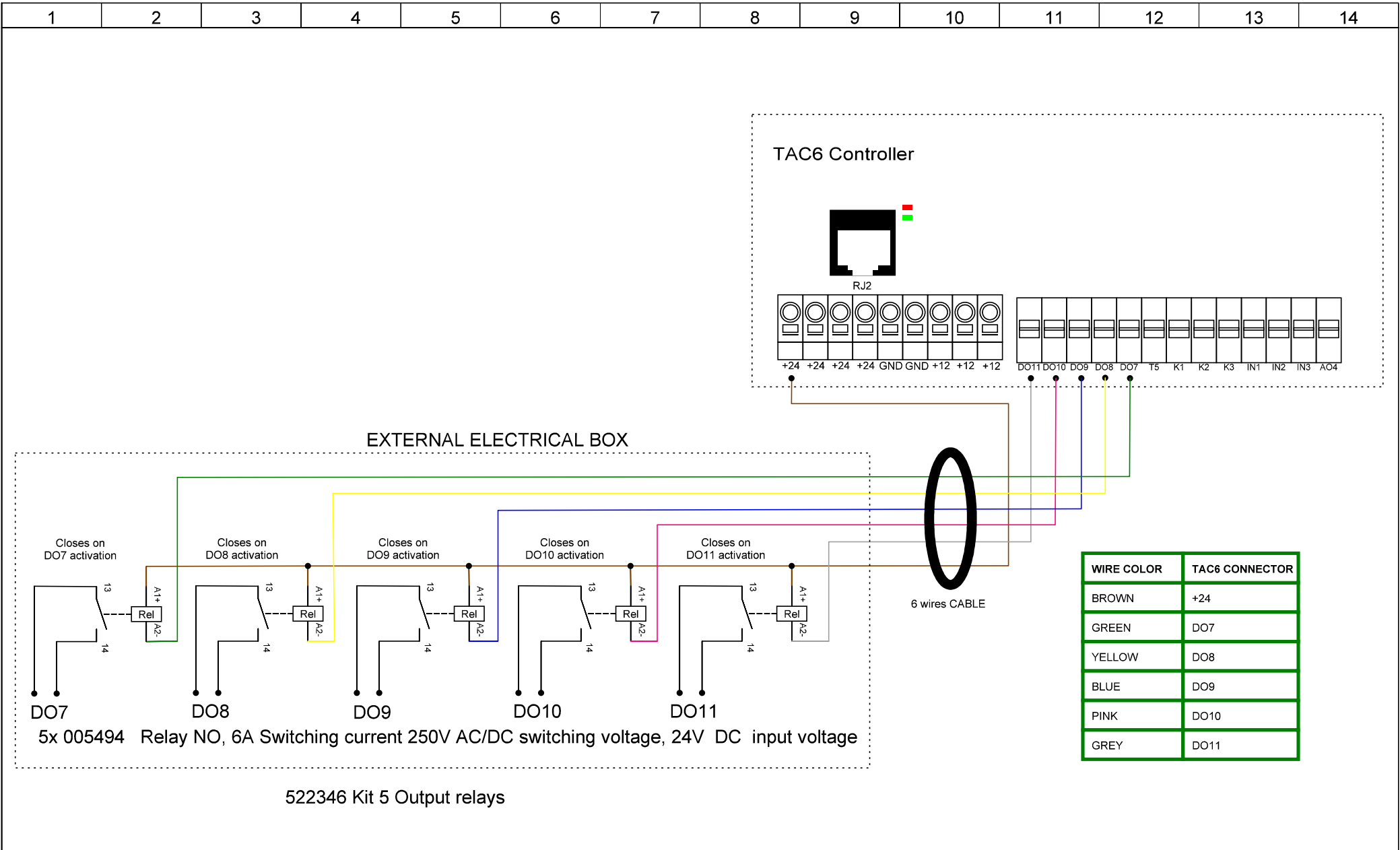
Attention: only possible to change 3x230V into 3x400V. Due to cable sections and selected components, changing from 3x400V to 3x230V is not allowed on site.

Changes		Name		Date	Configuration of function: N.A.	Page
Name	Date	Draw.:	msg	16/03/2021		49
		check.:			Application: KWout 3x230V - 3x400V	of
		Norm:				53
Subject:	GLOBAL_Wiring TAC6 rev 20230408.spl7					



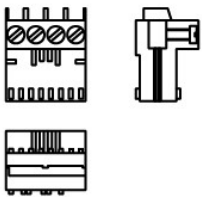
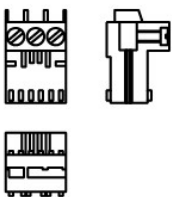
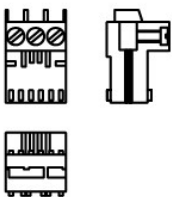
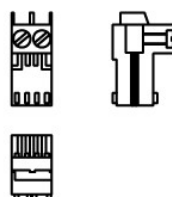


Changes			Name	Date	Configuration of function:	Page
Name	Date	Draw.:	msg	18/10/2021		51
		check.:				
		Norm:			Application: Output Relay 1x	of
Subject:	GLOBAL_Wiring TAC6 rev 20230408.spl7					53

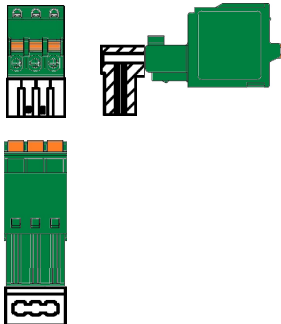
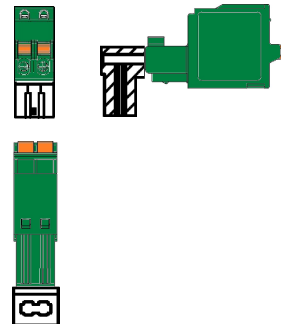


Changes			Name	Date	Configuration of function:	Page
Name	Date	Draw.:	msg	18/10/2021		52
		check.:				
		Norm:			Application: Output Relays 5x	of
Subject:	GLOBAL_Wiring TAC6 rev 20230408.spl7					53

Screw Connectors

	X9 005462
	X1 – X3 – X5 X7 – X8 005461
	X2 – X4 005460
	X6 – X10 005459

Spring Connectors

	X16 - X17 522348
	X11 - X12 - X13 - X14 X15 - X18 - X19 522347

Changes

Name	Date	Draw.:	Name msg	Date 16/03/2021	Configuration of function: N.A.	Page
		check.:				53
		Norm:				of
Subject:	GLOBAL_Wiring TAC6 rev 20230408.spl7				Application: Screw & Spring connectors	53