

**User and operating manual**  
*(Direct Digital Control)*  
**GTM DDC- Modul 140801**



**Controlling a standard air curtain by using a building management system (BMS)**

**Power supply 230V 50 Hz:**

clamp L – Phase  
 clamp N – Null  
 clamp PE – Erde

**controlling 12V GND potential:**

clamp 1 – fan speed 1  
 clamp 2 – fan speed 2  
 clamp 3 – fan speed 3  
 clamp 4 – fan speed 4  
 clamp 5 – fan speed 5  
 clamp 6 – free  
 clamp 7 – free  
 clamp 8 – free  
 clamp 9 – magnetic valve ON  
 clamp 10 – AutoTK  
 clamp 11 – GND

Potential free contacts (**NO**) should be used to control the unit. The potential of clamp 11 (**GND**) has to be used. (shown on wiring diagram GTM DDC or GTM EC DDC)

The selected function stays as long as the contact is closed.

**AutoTK**

If the input **clamp 10 - AutoTK** is used, an optional external contact (**NO**) (for example door contact) can be used on the internal GTM PCB. While the door opens the air curtain starts running in the selected fan step.

The system must have been provided with a turning-off delay to prevent that the air curtain is turned ON or OFF every time the door opens or closed.

The delay time can be chosen by using the DIP-switches 1 and 2. (see table)

DIP 1	DIP 2	Delay time
OFF	OFF	0 sec
ON	OFF	60 sec
OFF	ON	120 sec
ON	ON	180 sec



## Controlling an electrical heated air curtain by using a building management system (BMS)

### Power supply 230V 50 Hz:

clamp L – Phase  
clamp N – Null  
clamp PE – Erde

### controlling 12V GND potential:

clamp 1 – fan speed 1  
clamp 2 – fan speed 2  
clamp 3 – fan speed 3  
clamp 4 – fan speed 4  
clamp 5 – fan speed 5  
clamp 6 – heating step 1  
clamp 7 – heating step 2  
clamp 8 – heating step 3  
clamp 9 – free  
clamp 10 – AutoTK  
clamp 11 – GND

Potential free contacts (**NO**) should be used to control the unit. The potential of clamp 11 (**GND**) has to be used. (shown on wiring diagram GTM DDC or GTM EC DDC)

The selected function stays as long as the contact is closed.

The heating step depends on the selected fan speed.

Fan speed 1 - 2	heating step 0 - 1
Fan speed 3	heating step 0 - 2
Fan speed 4 - 5	heating step 0 - 3

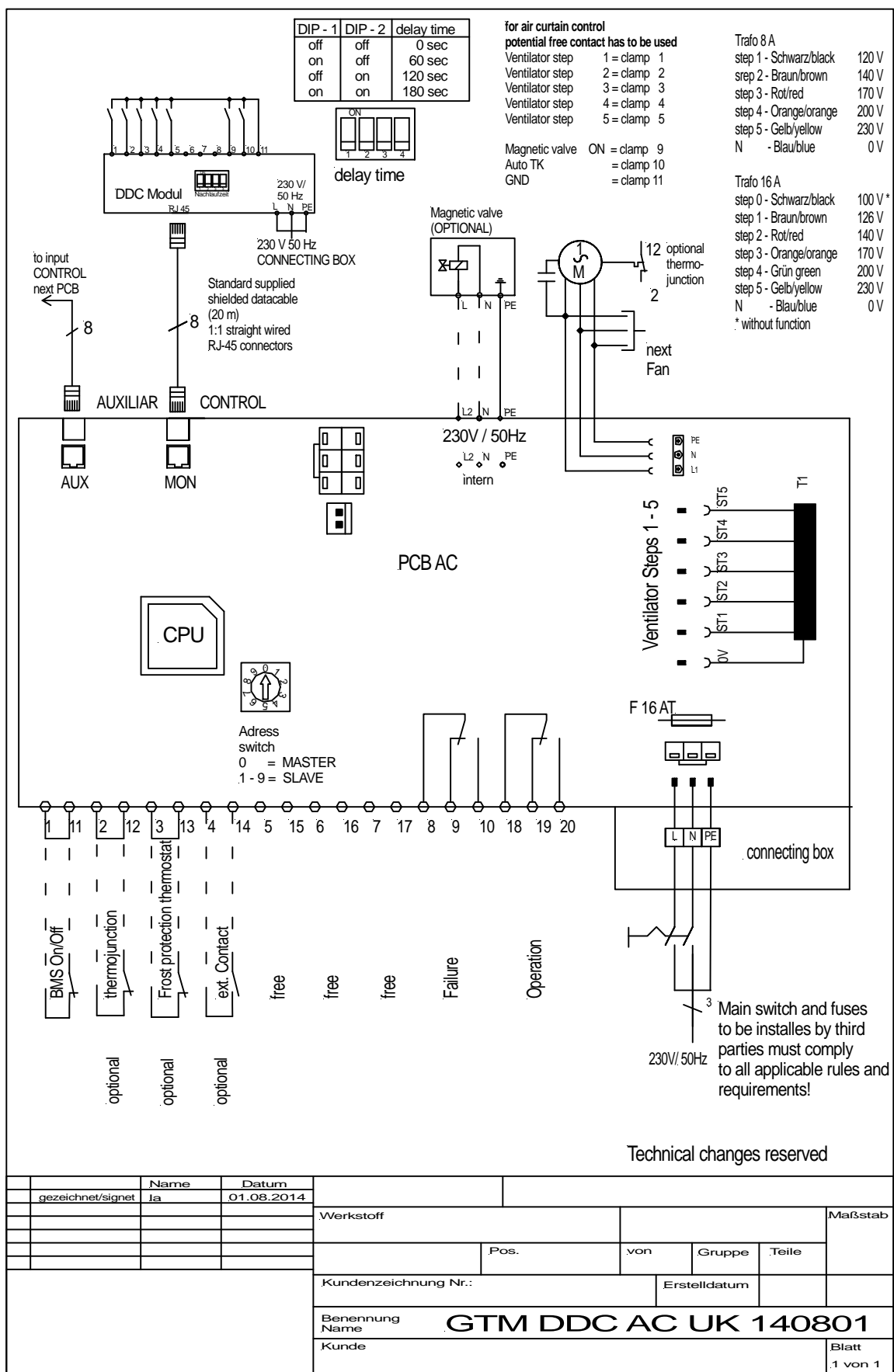
### AutoTK

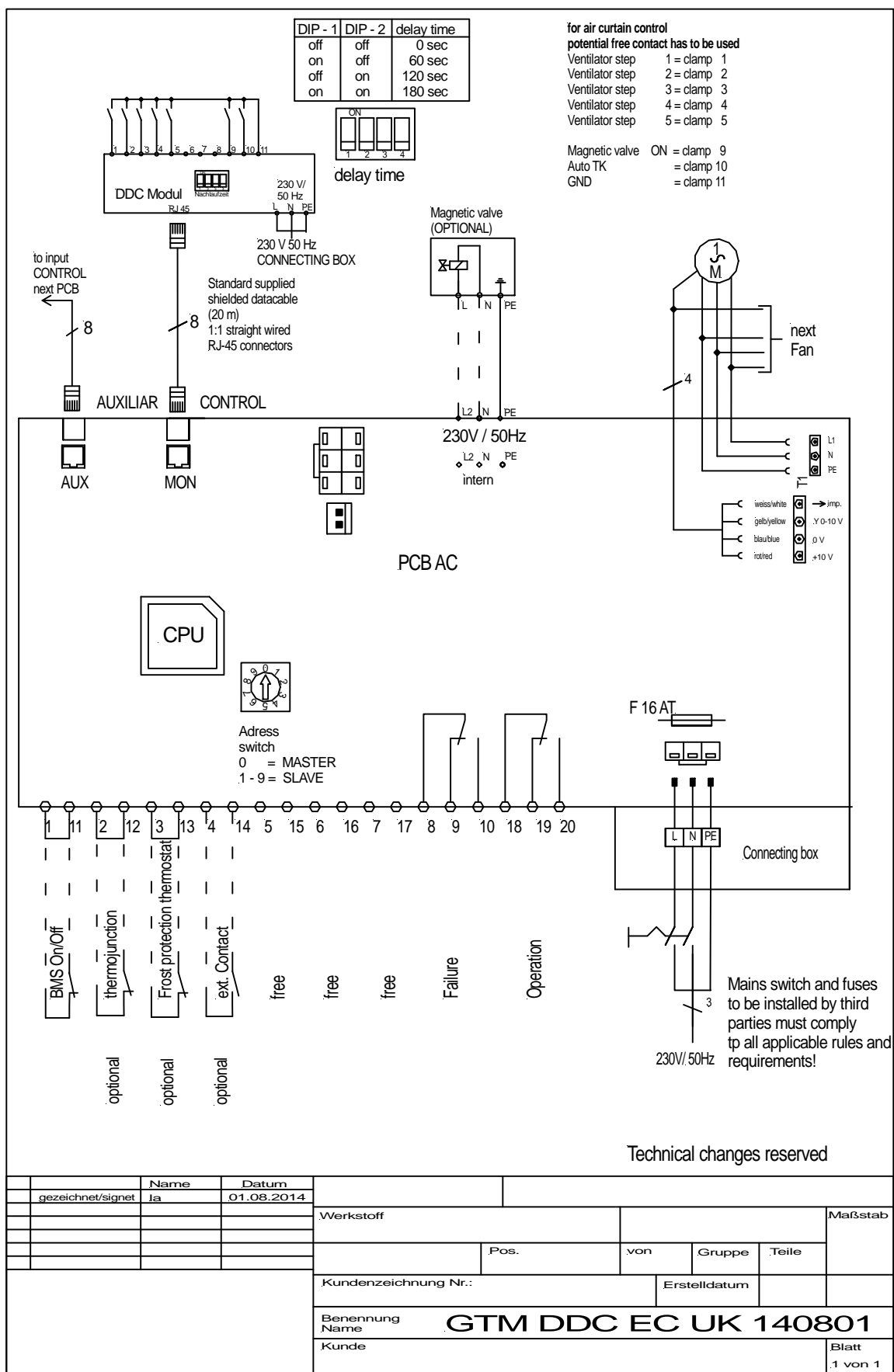
If the input **clamp 10 - AutoTK** is used, an optional external contact (**NO**) (for example door contact) can be used on the internal GTM PCB. While the door opens the air curtain starts running in the selected fan step.

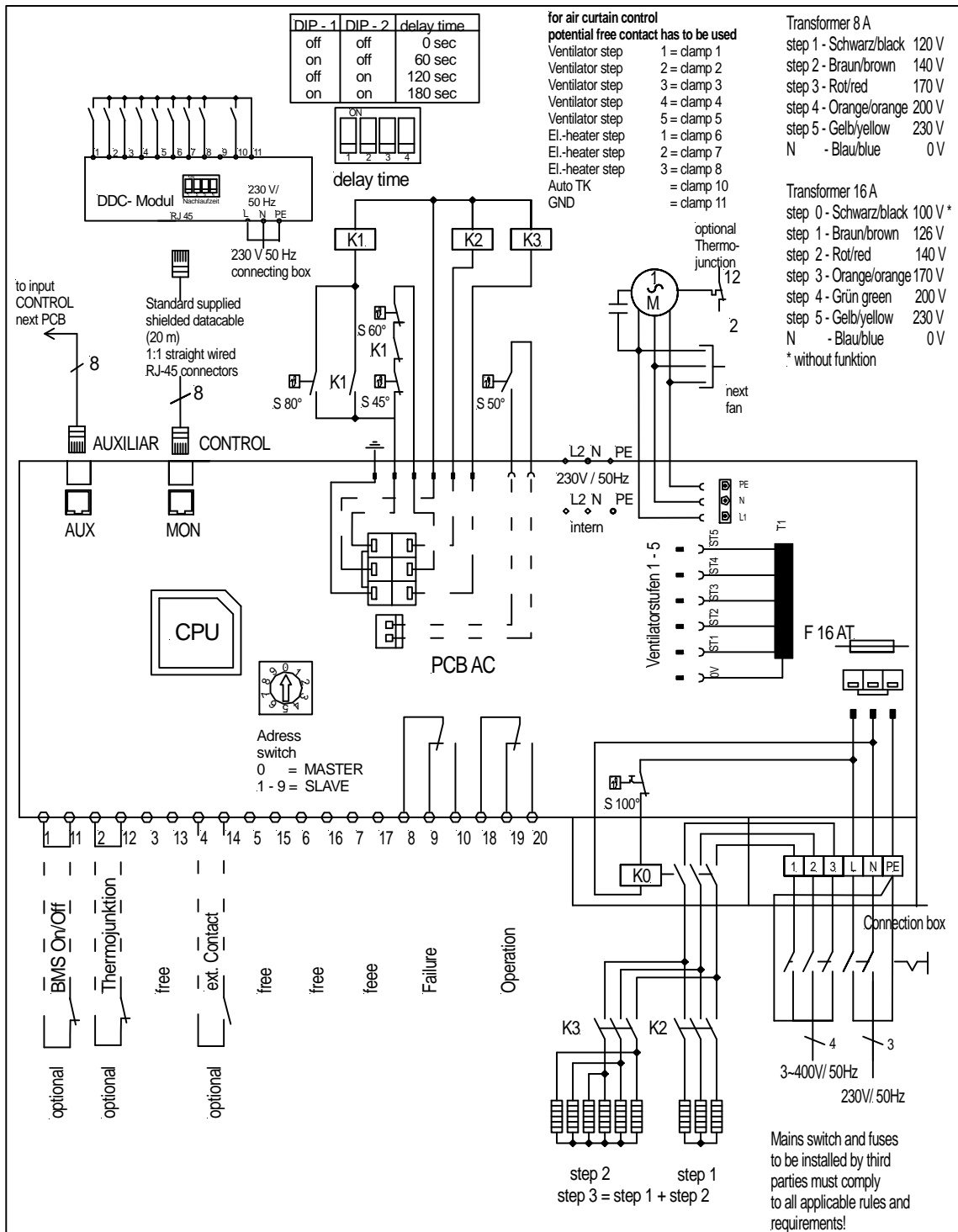
The system must have been provided with a turning-off delay to prevent that the air curtain is turned ON or OFF every time the door opens or closed.

The delay time can be chosen by using the DIP-switches 1 and 2. (see table)

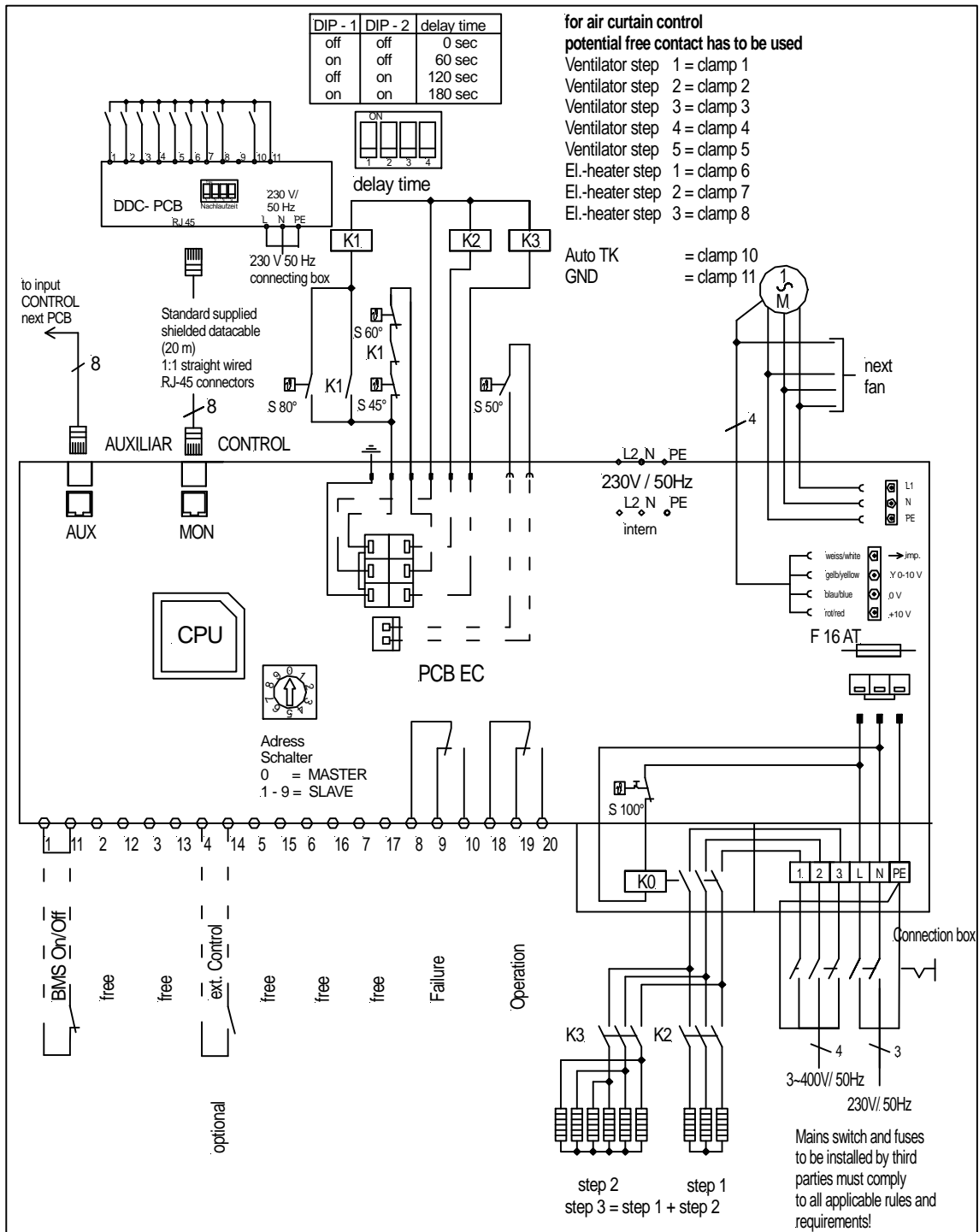
DIP 1	DIP 2	Delay time
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Name	Datum					
gezeichnet/signet	Ja	01.08.2014				
			Werkstoff			
			Pos.			
			von	Gruppe	Teile	
Kundenzeichnung Nr.:			Erstelldatum			
Benennung Name			GTM E DDC UK 140801			
Kunde			Blatt			
			1 von 1			



gezeichnet/signet	Name Ja	Datum 01.08.2014				
			Werkstoff		Maßstab	
			Pos.	von	Gruppe	Teile
			Kundenzeichnung Nr.:		Erstelldatum	
			Benennung Name <b>GTM E DDC EC UK 140801</b>			
			Kunde			
			Blatt 1 von 1			