



WAGO Kontakttechnik GmbH & Co. KG

Project name: Systembox for customer Venti A/S
Project number: CS_DE_008044_T21
Drawing number: CS_DE_008044_T21_CD_AC_4 Zoner
Name: 4 Zoner
Part number: 8008-xxx (ID 60xx)

Customer: Venti A/S
 Banevænget 3
 8362 Hørning
 DK
 +45 (86922266)

Customer number:
Person of contact:

Acceptance:

Date: _____

Signature: _____

Stamp: _____

Manufacturer: WAGO Kontakttechnik GmbH & Co. KG
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 32423 Minden
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Revision overview

Date	Creator	Revision name	Revision description
13.04.2021	Adamczyk	Production status	-

Technical information:

Miscellaneous

Brand: WAGO
 Type: WINSTA Systembox
 Measurements w/h/d: 600x300x160mm
 Degree of protection: IP20
 Protection class: I
 Installation type: subceiling
 Door hinge: without
 Cable routing: all sides
 Ambient air temperature: +10 °C bis 35 °C (Norm)
 Relative humidity: 5 - 95 %
 (moisture condensation and direct sun heat inadmissible)
 Special service conditions
 -

Year of construction 2021

Applied norms

Switchgear and controlgear assembly
 IEC 61439-1 - General rules
 IEC 61439-2 - Power switchgear and controlgear assemblies (PSC)
 IEC 61439-3 - Distribution boards intended to be operated by ordinary persons (DBO)
 Boxes and enclosures for electrical accessories: IEC 60670-1

Miscellaneous

Network configuration: TN-S/TT (separated neutral conductors and protective conductors within the entire system)
 Rated voltage (Un): Y / Δ 230 VAC / 400 VAC
 Rated operational voltage (Ue): 230 VAC / 24 VDC
 Rated insulation voltage (Ui): ≥Ue
 Rated impulse withstand voltage (UImp): 4kV (ÜSK III)
 Rated current (In): 16A
 Rated current of a circuit (Inc): please refer to circuit plan
 Rated peak withstand current (Ipk): The switchgear and controlgear assembly is designated for electronic installations with either a prospective short-circuit current not rising above 10 kA or a protection by current limiting protective devices with a maximum switch-off current of 17 kA.
 Rated diversity factor (RDF): 0,9
 Rated frequency (fn): 50 Hz
 Electromagnetic compatibility (EMC): Environment A/B
 This product is appropriate for environment A. Unwanted electromagnetic disturbances may be caused in environment B; in this case, the user can be obliged to take the appropriate steps.

Technical information:

Conductor colours according to EN 60204-1 (DIN IEC60757)

Load circuits

External conductor	black	BK
Neutral conductor N	blue	BU
Protective earth conductor PE	green-yellow	GNYE

Control power:

230VAC (L)	rot	RD
230VAC (N)	rot/-weiß	RDWH
24VAC	braun	BN
0VAC	braun/-weiß	BNWH
24VDC	dunkelblau	DKBU
0VDC	dunkelblau/-weiß	DKBUWH

External voltage	orange	OG
Analog-/measurement signal	weiß	WT
DALI	violett	VT
Serial interface RS232/485	grau	GY
SMI	türkis	TQ
Further bus applications	rosa	PK

KNX/LON J-Y(ST)Y 2x2x0,8mm grün

Conductor cross-sections (H05/H07V-K)

Cross-section for at least 125% of the rated current (circuit)

Minimum requirement:

Load circuits 230V/400VAC	min. 1 mm ²
Control power	min. 0.75 mm ²
Signal voltage	min. 1 mm ²
Enclosure grounding	min. 2.5 mm ² (depending on the external conductor)

Details are primarily shown in the diagram!

Instructions for the intended use of low-voltage switchgear and controlgear assemblies (SCA)

Electric connection:

The switchgear and controlgear assembly can only be opened, installed, connected, serviced and started up by skilled persons (according to IEC 61439-1 section 3.7.12 respectively DIN VDE 0105 part 100).

Upon connecting the switchgear and controlgear assembly as well as other external field devices, it is essential to comply with the relevant VDE-regulations, the manufacturers' guidelines as well as the local or national regulations.

The switchgear and controlgear assembly is designated to be used for the public low-voltage power supply network. The system voltage has to correspond with the nominal voltage of the switchgear and controlgear assembly and must be within the defined limits for voltage ranges as defined in the VDE-regulations..

In case of a three-phase A.C. current supply, a right rotating field has to be taken care of.

The fuse protection of the switchgear combination is provided by the customer in accordance with the rated current specification (page 4), and in compliance with the local/country regulations. Required residual current circuit breakers (RCD) in the feeders must be provided by the customer.

In order to avoid failures, all bus and control cables have to be installed separately from other power supply cables carrying system voltage.

Hints for CE-labelling:

All switching devices and components built into the switchgear and controlgear assembly are CE-labelled, subject to the condition that those devices require this type of labelling. The switching devices and components meet the requirements of the EC-directives regarding low-voltage, switching devices and components as well as electromagnetic compatibility

Circuit diagram:

All switch contacts are shown in a disconnected off-mode.

Starting up:

Before starting-up of the switchgear and controlgear assembly, all terminal and screw connections must be checked for tight fitting and retightened if needed, in accordance with VDE 660..

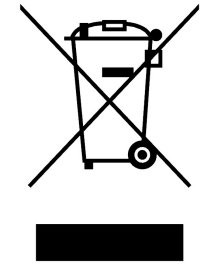
Motor protection switches, overcurrent relays etc. have to be set to the respective nominal currents and documented

Within the process of starting-up, live cables must be checked in respect of insulation faults and fracture points

If the enclosure needs to be opened after the start-up, it must be disconnected from voltage beforehand.

The inspection of cable lengths and cross-sections supplying consumer-, command- and monitoring devices must be performed by the installation company/start-up engineer. (DIN VDE 0100 part 430 and VDE 0298 part 4). The cable cross-sections shown refer to minimum cross-sections without considering external cable lengths. All potentially listed cable cross-sections and cable types should be regarded as suggestions

When starting up, all functions have to be checked as well as documented.



We would like to indicate that after reconstructing or substantially changing the electric installations, an initial testing according to VDE 0100-600 will have to be made, before the user is allowed to conduct a start-up. This initial testing has to be performed by a skilled person being competent to perform such a testing. The initial testing is not part of our performance. We would be more than happy to give you the details of a specialist electric company which can perform the necessary testing for you

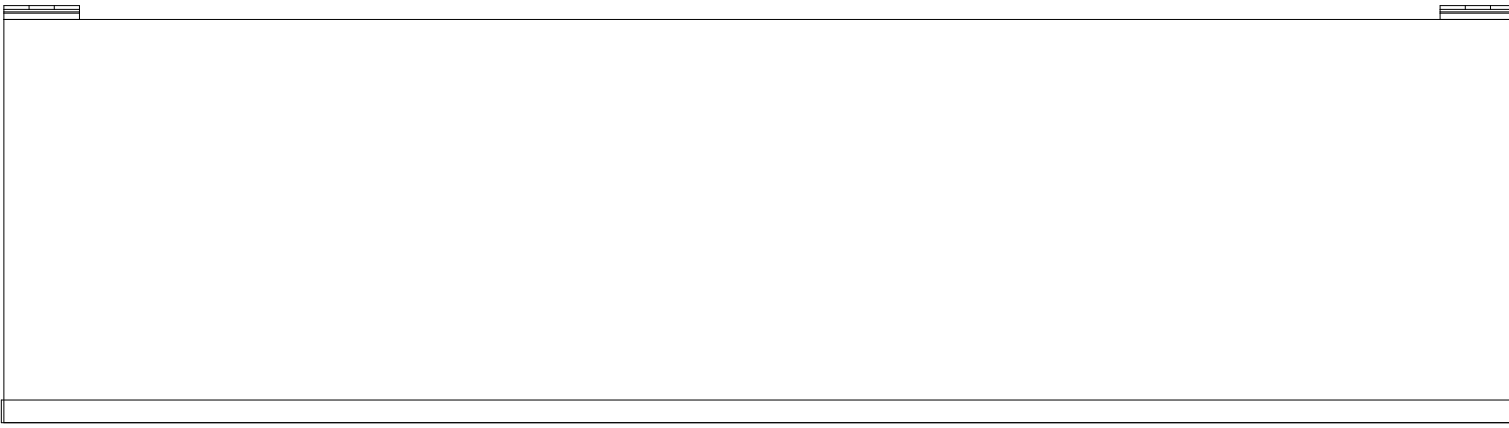
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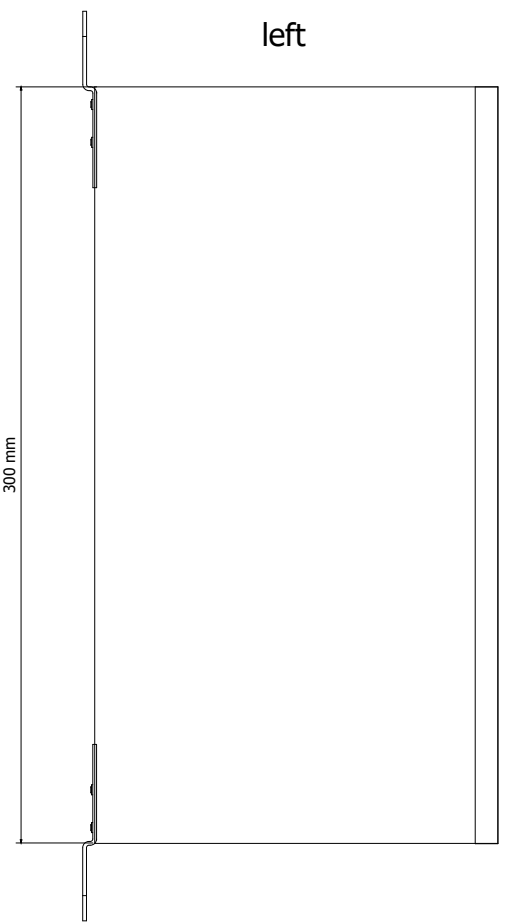
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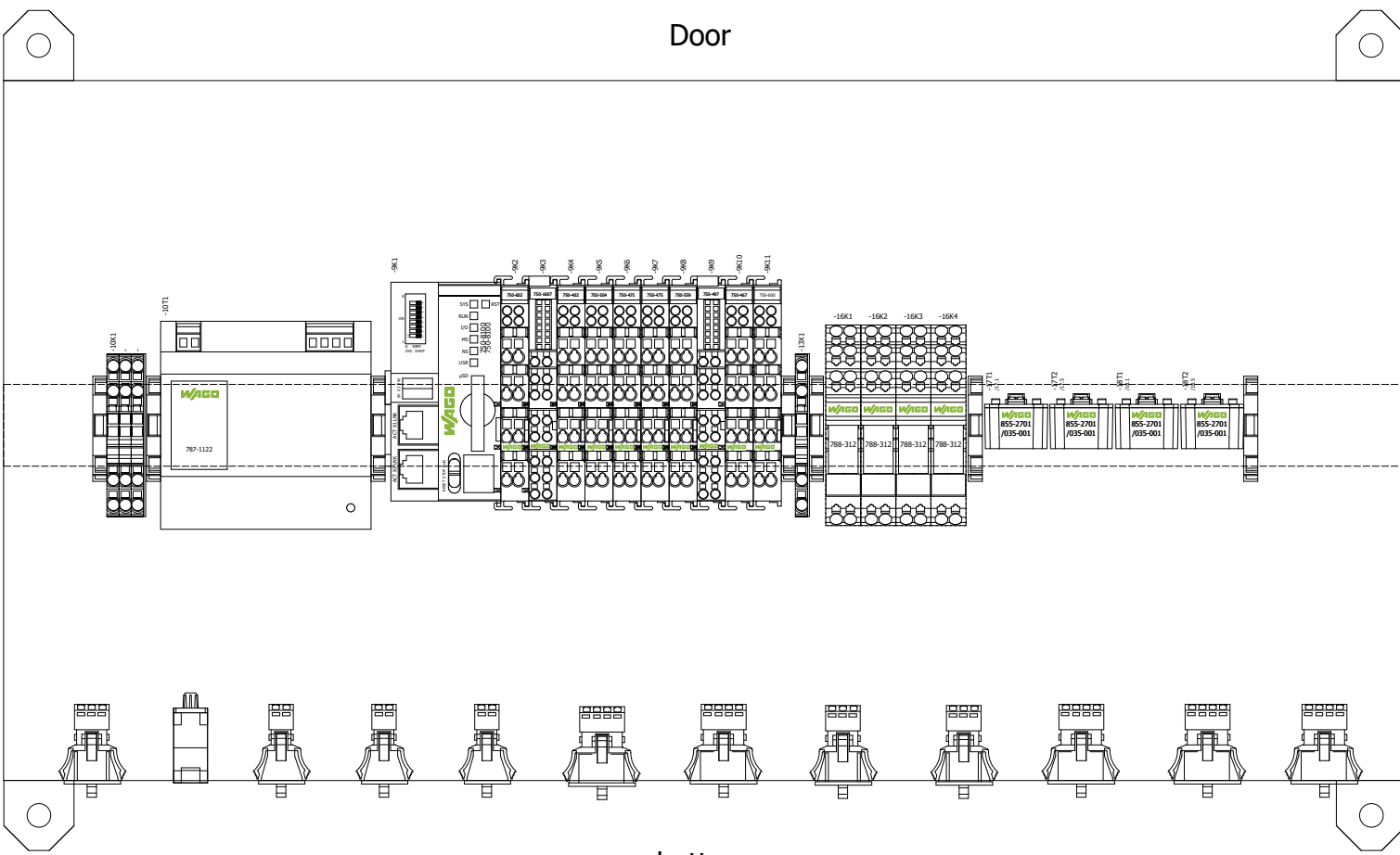
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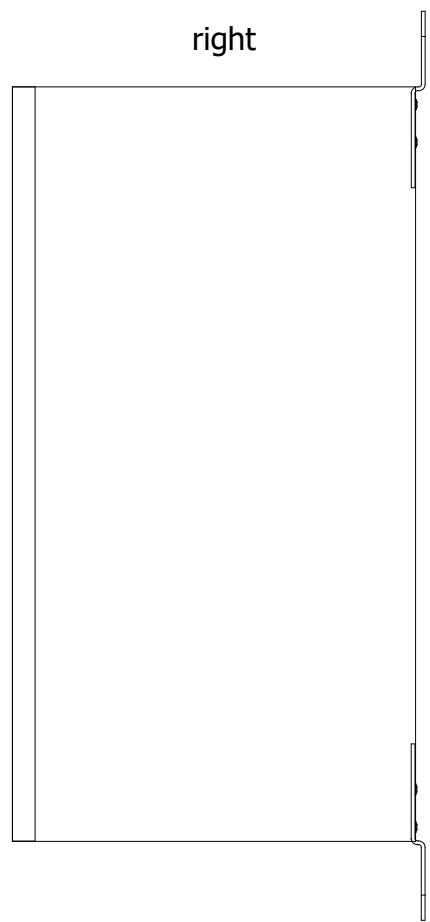
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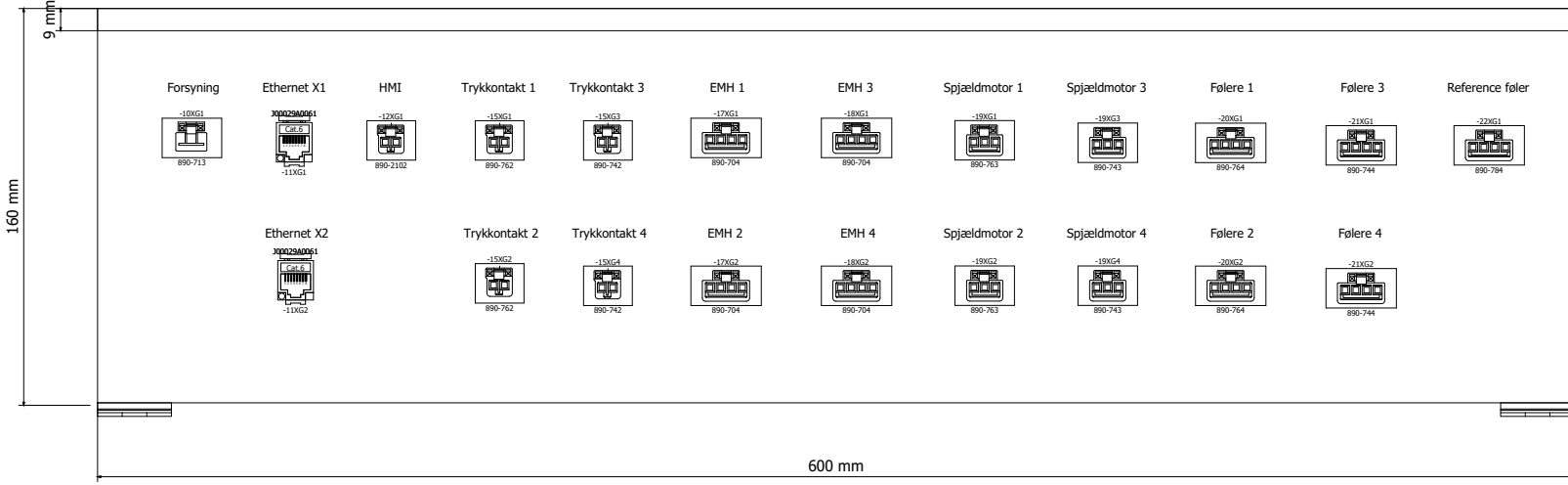
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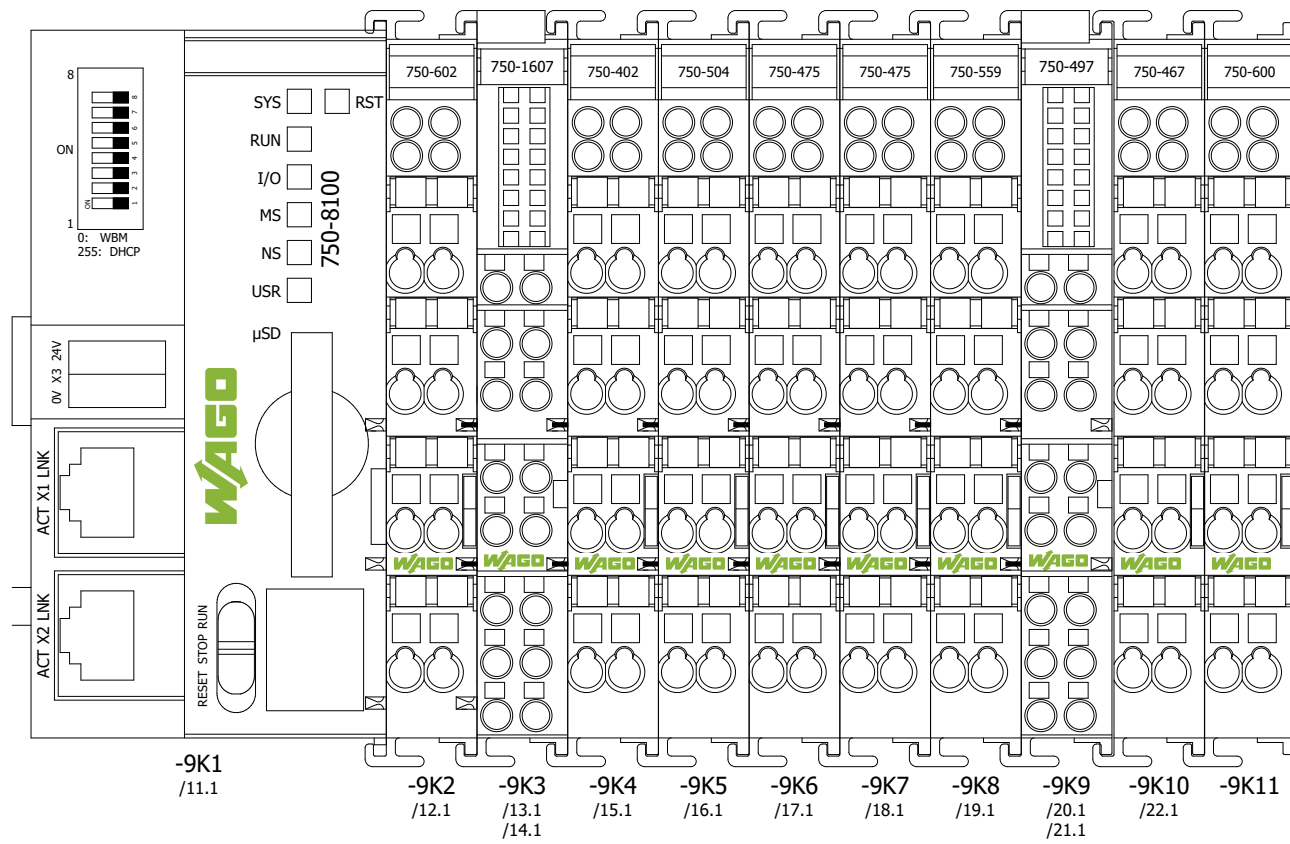
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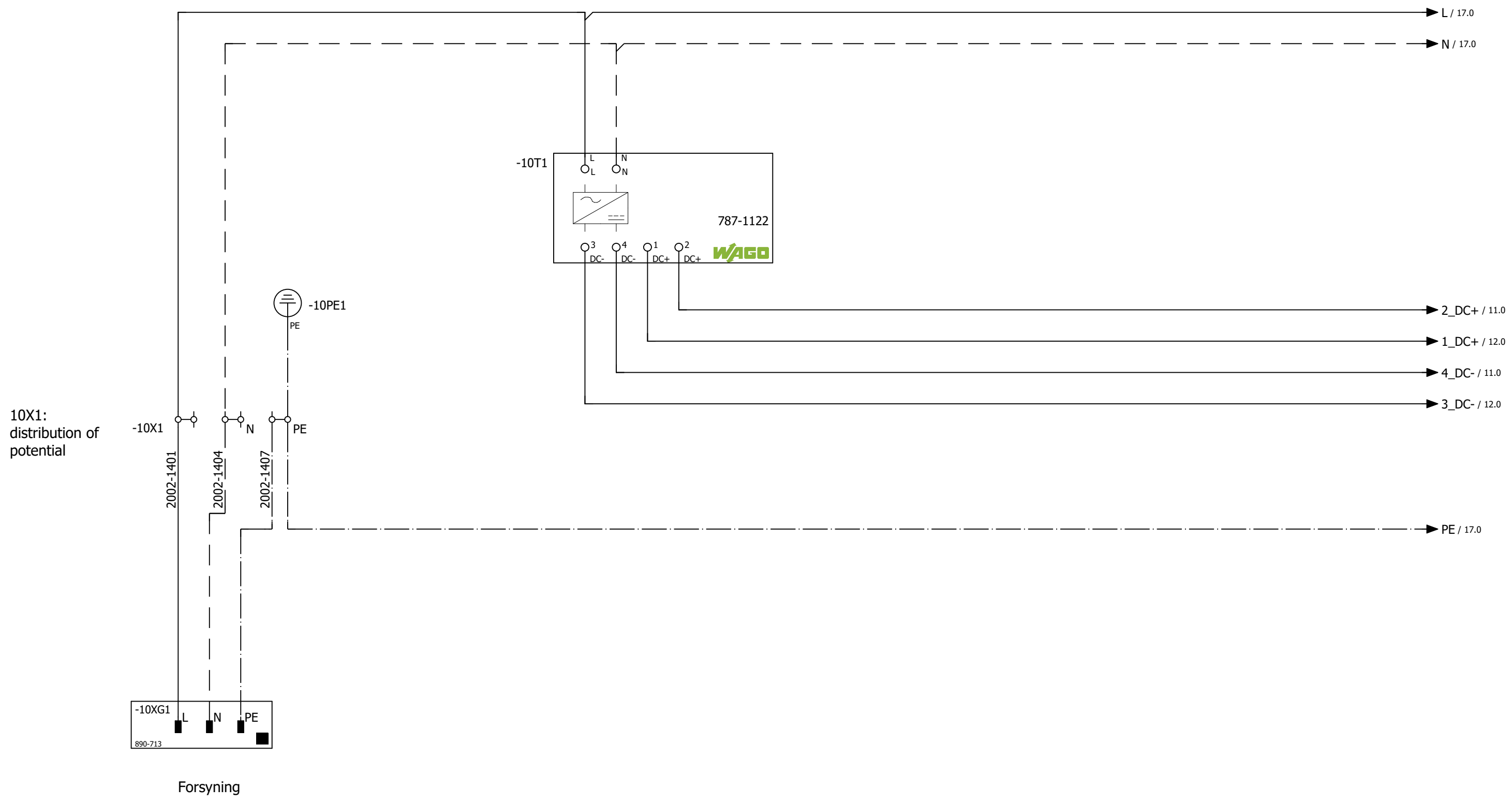
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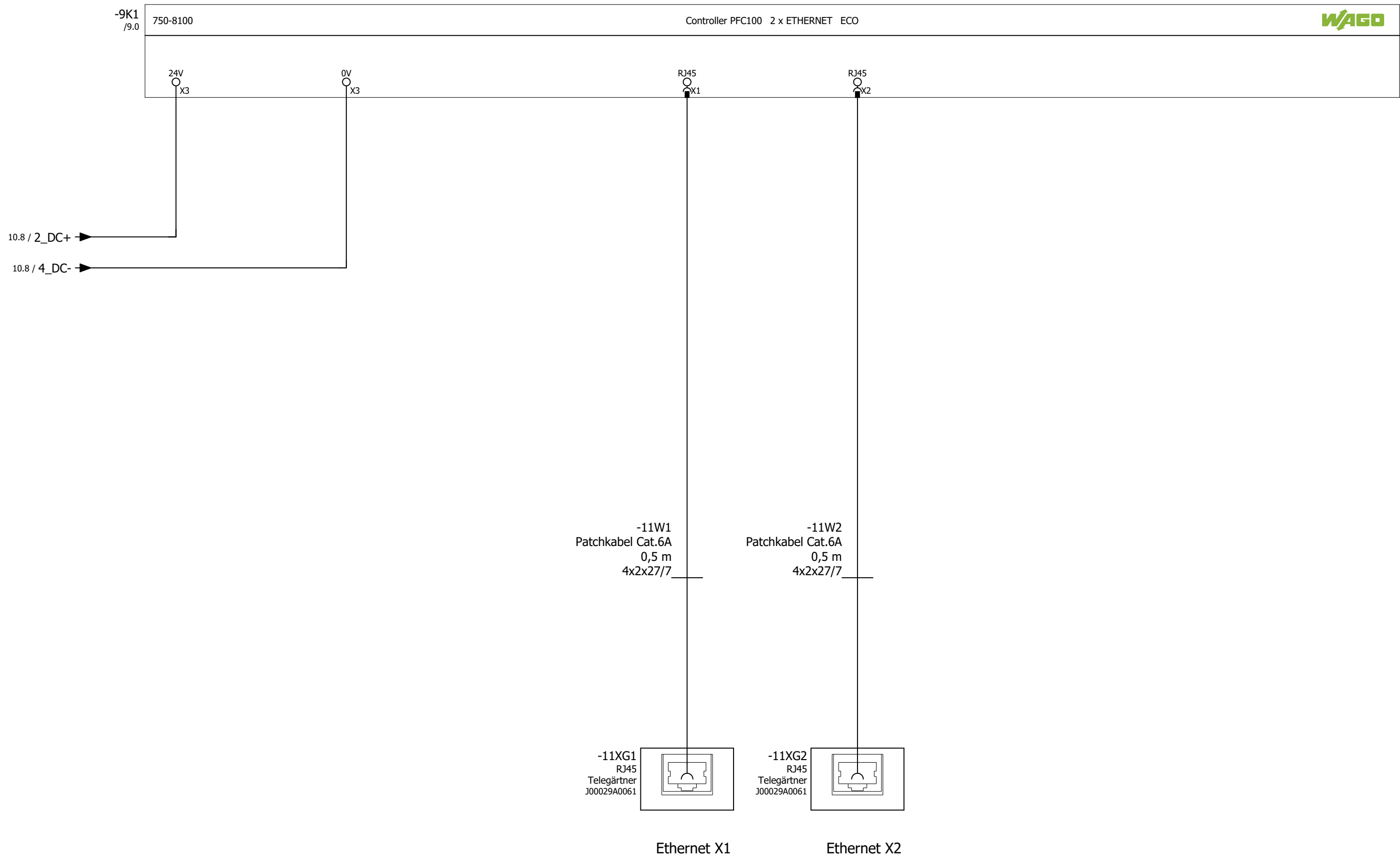
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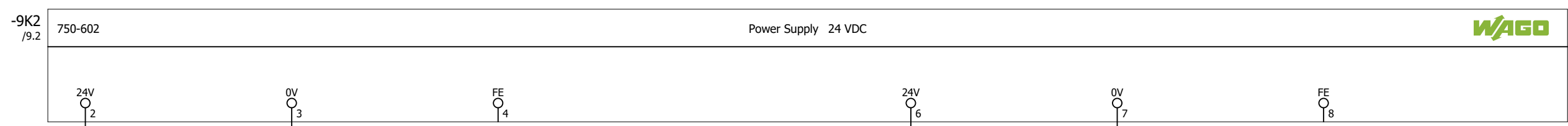
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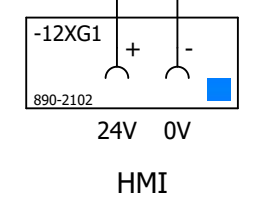
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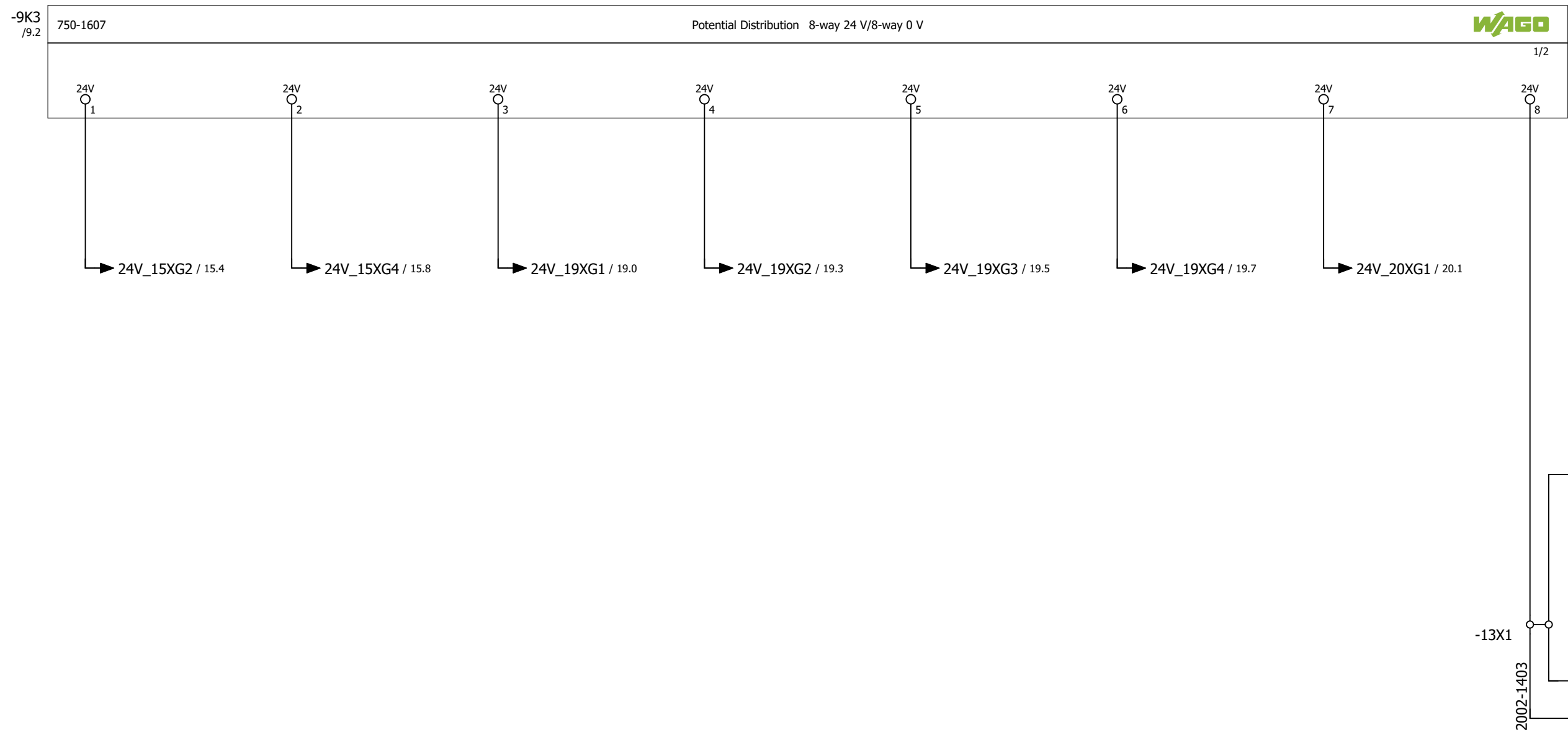
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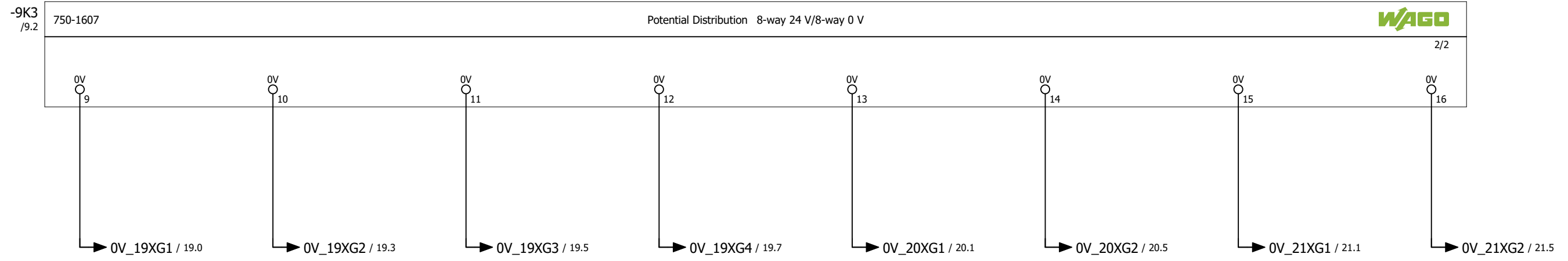
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10.8 / 3_DC- →



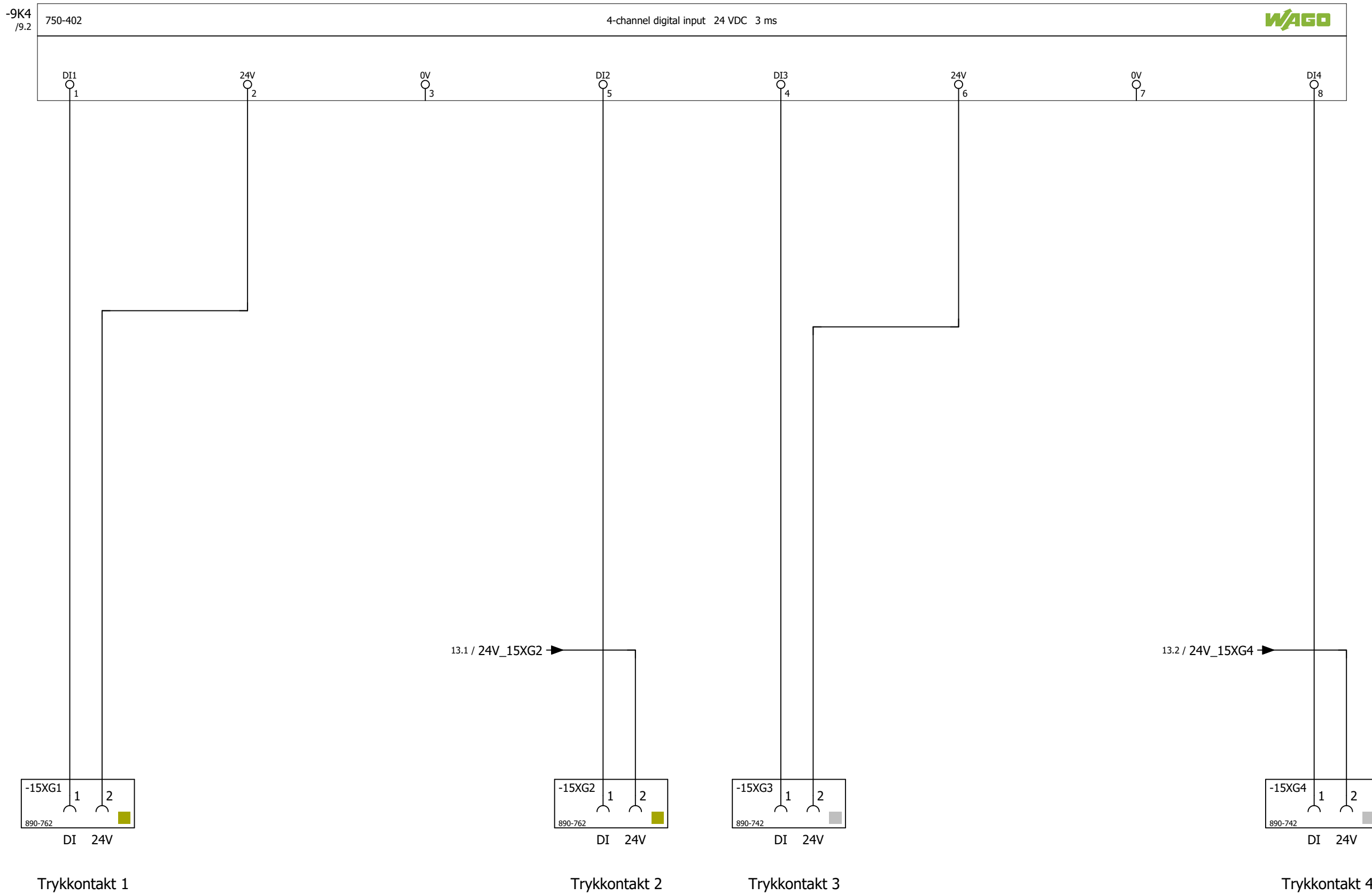
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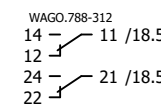
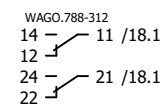
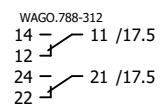
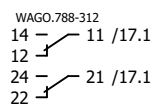
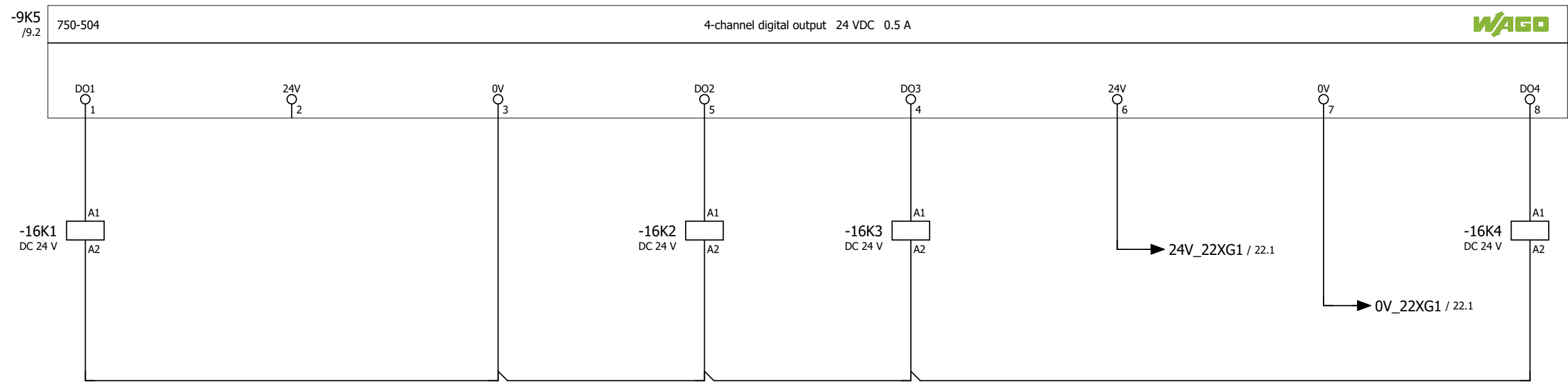
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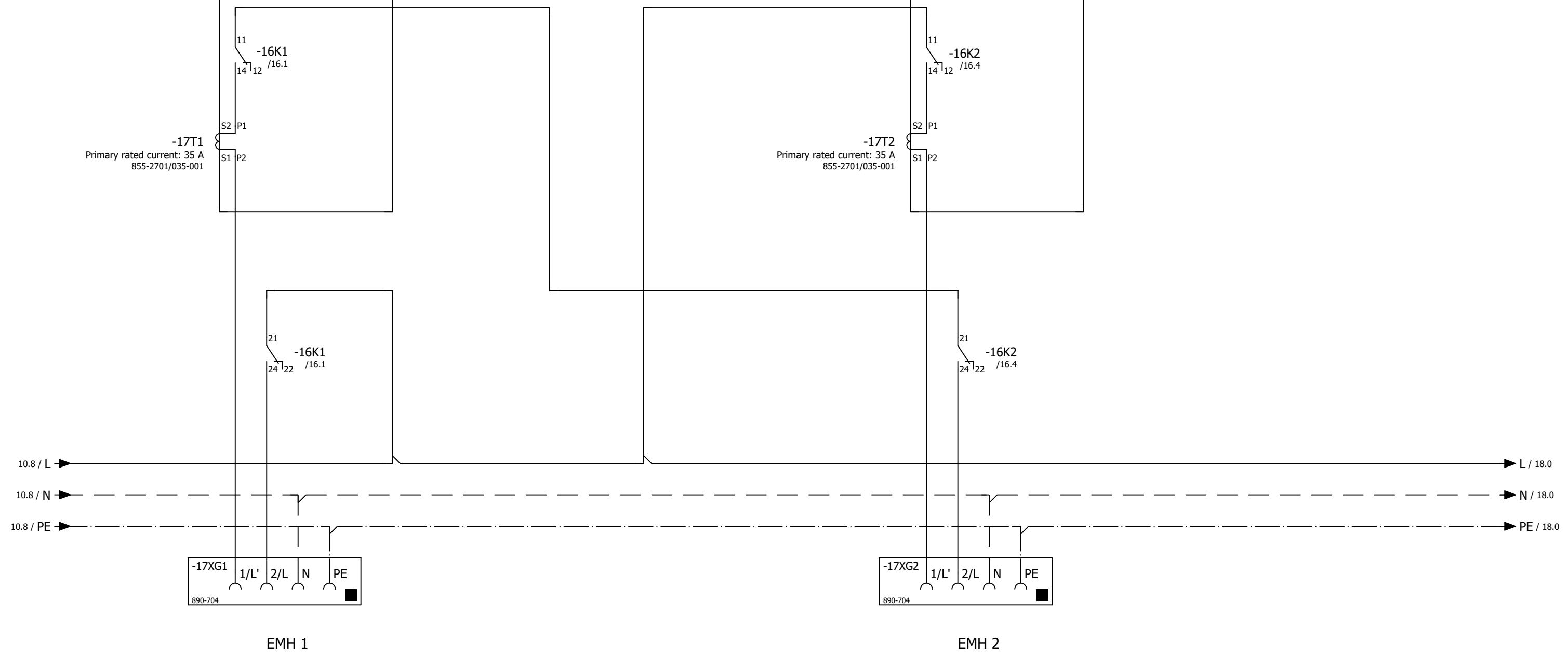
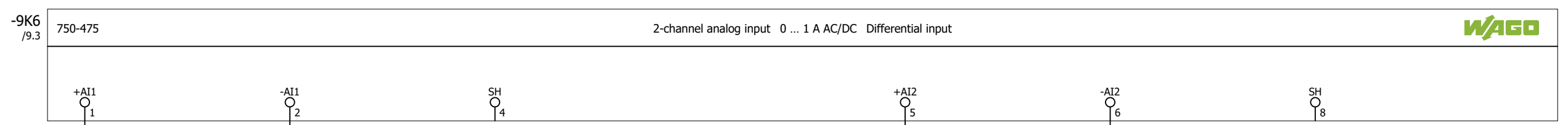
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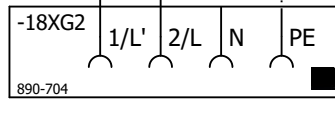
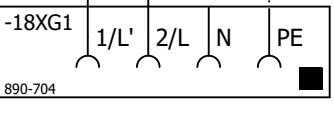
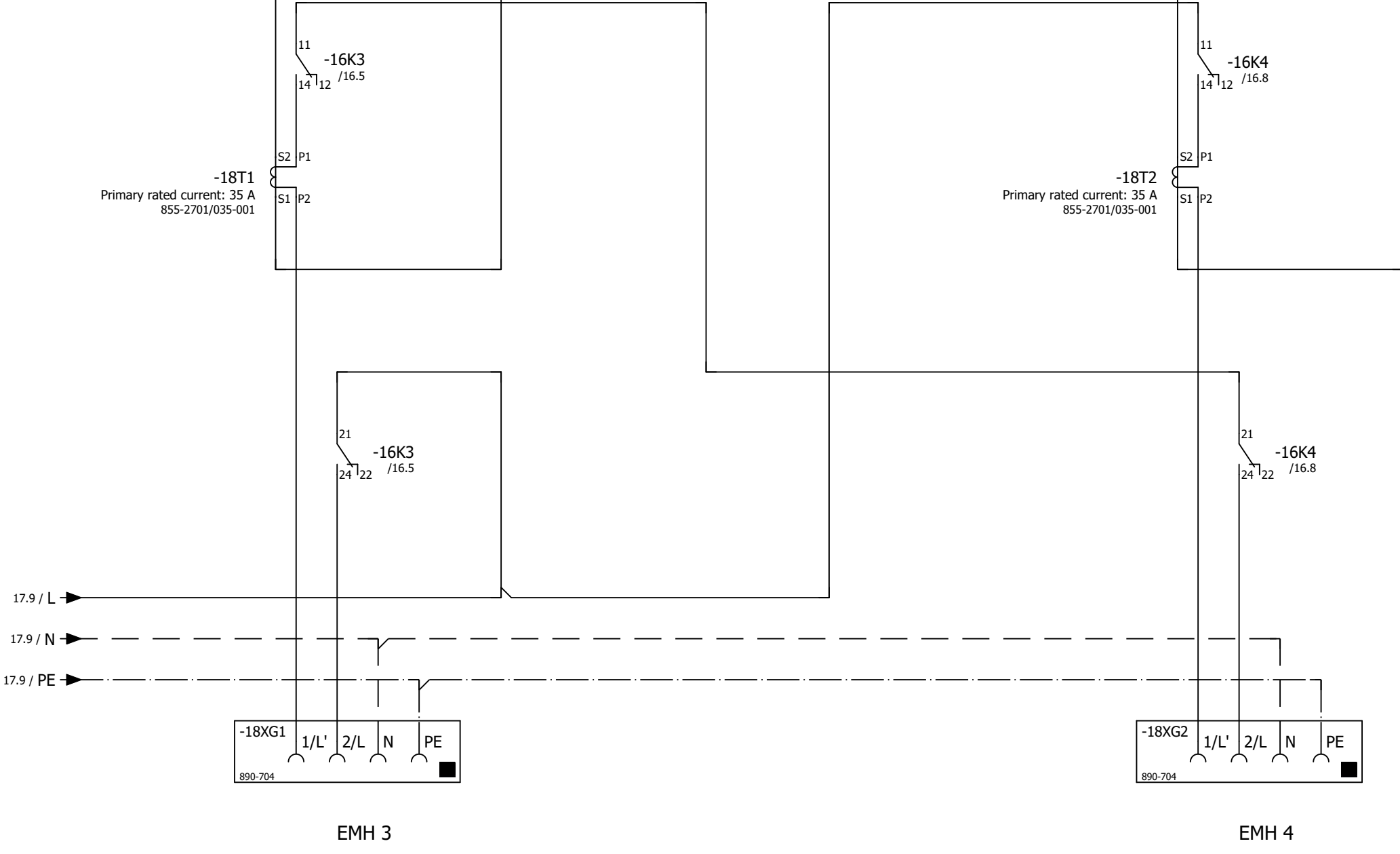
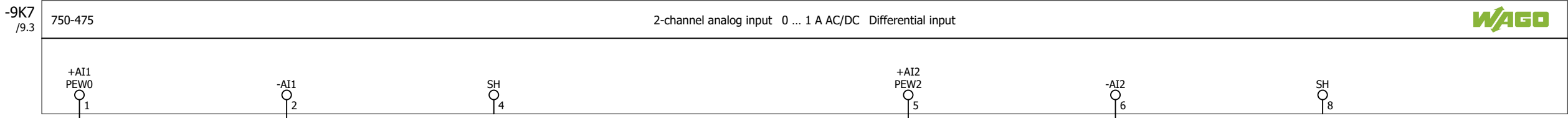
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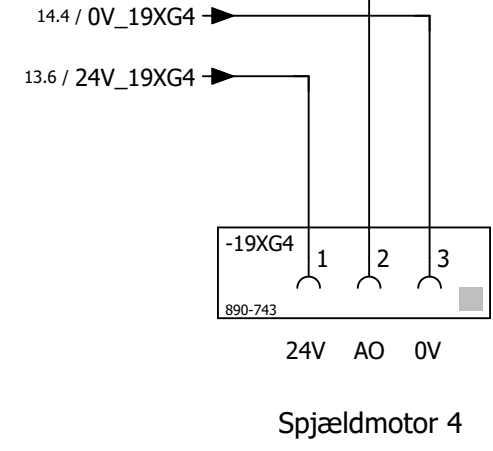
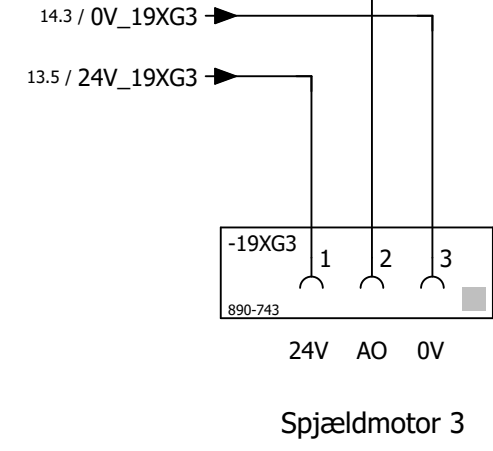
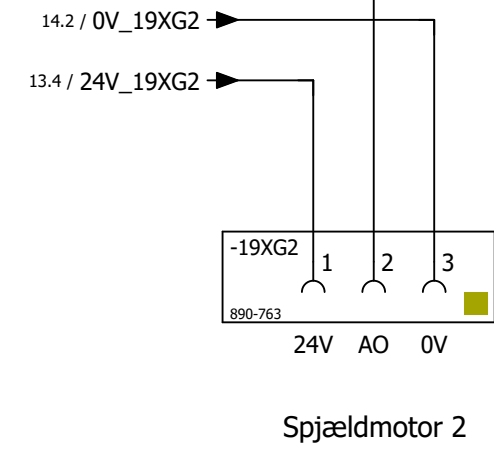
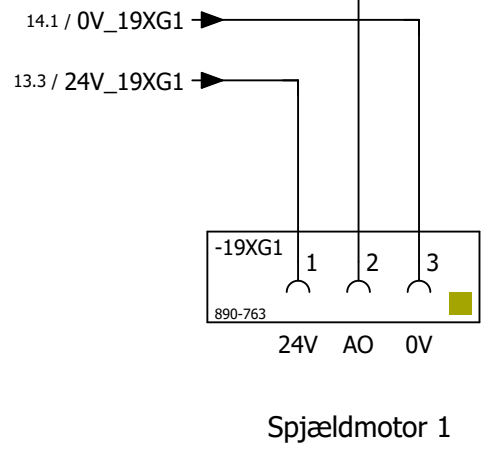
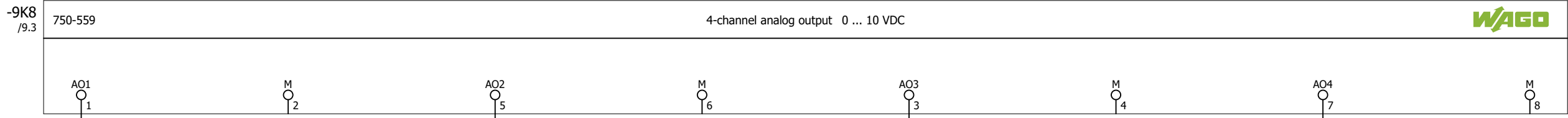
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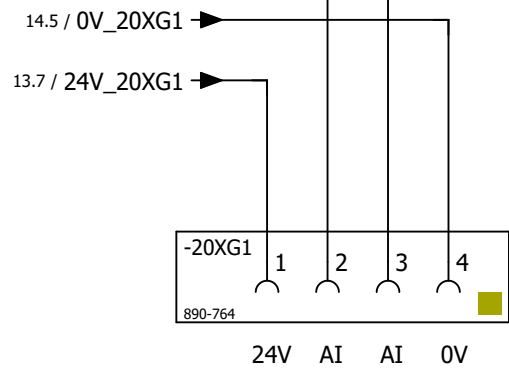
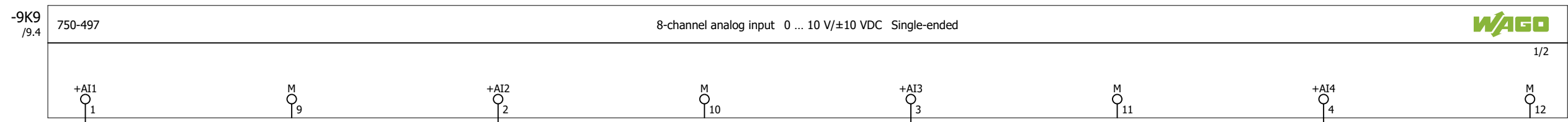
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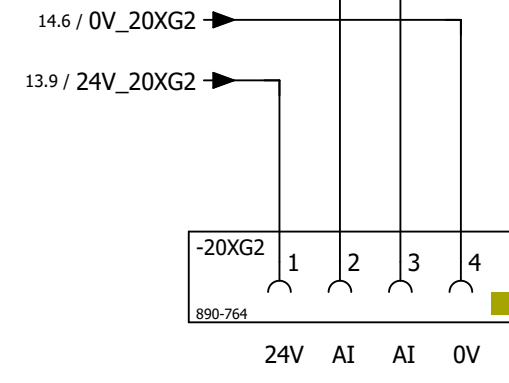
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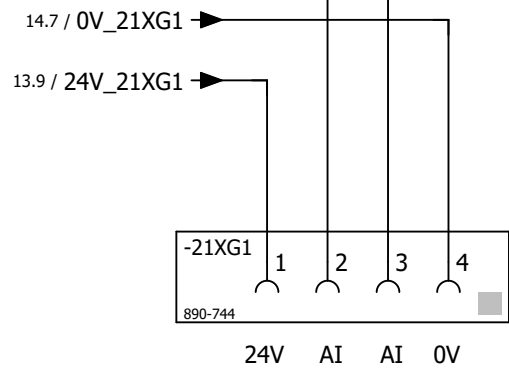
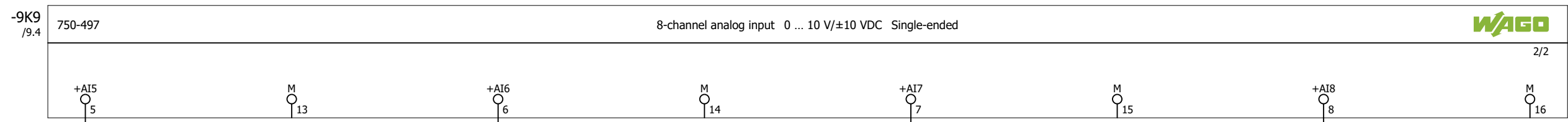


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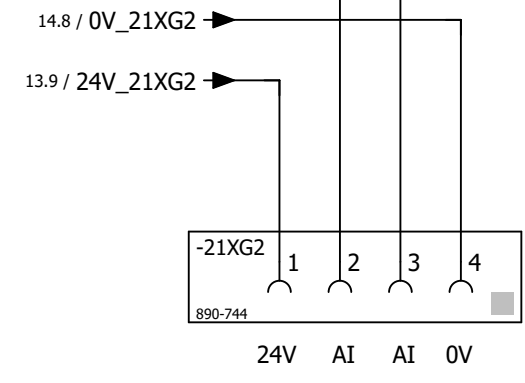


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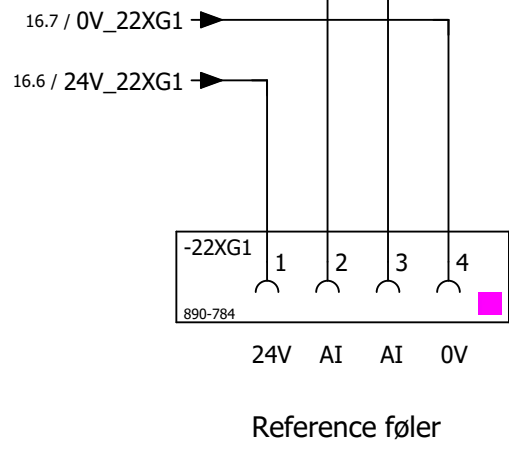
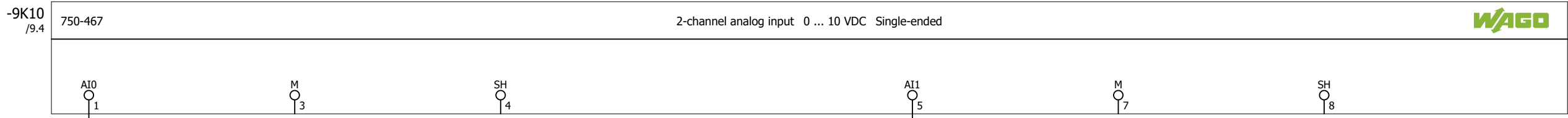


Følere 3



Følere 4

			Date	14.04.2021	Systembox for customer Venti A/S	WAGO	750-497 2/2	distribution label :	=	
			Ed.	Adamczyk				4 Zoner	+	
			Appr	J. Laursen				Project no. : CS_DE_008044_T21	Page	21
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			Date	14.04.2021	Systembox for customer Venti A/S		750-467	distribution label :	=	
			Ed.	Adamczyk				4 Zoner	+	
			Appr	J. Laursen				Project no. : CS_DE_008044_T21	Page	22
Modification	Date	Name	Original		Replacement of	Replaced by		Draw. no.: CS_DE_008044_T21_CD_AC_4 Zoner	Page	29

Summarized parts list

WAGO_F02_001

ERP number	Quantity	Description	Manufacturer	Type number	Remark	Pos.
8008-0099/0000-1290/0999-1999	2 pcs.	RJ45 AMJ-Coupling K Cat.6 (Snap-In)	Telegärtner	J00029A0061		
8008-0099/0000-1292/0099-1999	2 pcs.	patch cable Cat.6A 0,5m	Telegärtner	L00000A0072		
0249-0116	7 Piece	Screwless end stop	WAGO	249-116		
0750-0402	1 pcs.	4-channel digital input	WAGO	750-402		
0750-0467	1 pcs.	2-channel analog input	WAGO	750-467		
0750-0475	2 pcs.	2-channel analog input	WAGO	750-475		
0750-0497	1 pcs.	8-channel analog input	WAGO	750-497		
0750-0504	1 pcs.	4-channel digital output	WAGO	750-504		
0750-0559	1 pcs.	4-channel analog output	WAGO	750-559		
0750-0600	2 pcs.	End module	WAGO	750-600		
0750-0602	1 pcs.	Power Supply	WAGO	750-602		
0750-1607	1 pcs.	Potential Distribution	WAGO	750-1607		
0750-8100	1 pcs.	Controller PFC100	WAGO	750-8100		
0787-1122	1 pcs.	!!! Translation missing !!!	WAGO	787-1122		
0788-0312	4 pcs.	Relay socket with relay and status indicator	WAGO	788-312		
0855-2701/0035-0001	4 Stück	Plug-in current transformer	WAGO	855-2701/035-001		
0890-0704	4 pcs.	WINSTA® Socket MINI snap-in 4-pole	WAGO	890-704		
0890-0713	1 pcs.	WINSTA® Plug MINI snap-in 3-pole	WAGO	890-713		
0890-0742	2 pcs.	WINSTA® Socket MINI snap-in 2-pole	WAGO	890-742		

Date	14.04.2021	Systembox for customer Venti A/S		Summarized parts list : TEG.J00029A0061 - WAGO.890-742	distribution label : 4 Zoner Project no. : CS_DE_008044_T21 Draw. no.: CS_DE_008044_T21_CD_AC_4 Zoner	=
Ed.	Adamczyk					+
Appr	J. Laursen					Page 25
Modification	Date	Name	Original	Replacement of	Replaced by	Page 29

Summarized parts list

WAGO_F02_001

ERP number	Quantity	Description	Manufacturer	Type number	Remark	Pos.
0890-0743	2 pcs.	WINSTA® Socket MINI snap-in 3-pole	WAGO	890-743		
0890-0744	2 pcs.	WINSTA® Socket MINI snap-in 4-pole	WAGO	890-744		
0890-0762	2 pcs.	WINSTA® Socket MINI snap-in 2-pole	WAGO	890-762		
0890-0763	2 pcs.	WINSTA® Socket MINI snap-in 3-pole	WAGO	890-763		
0890-0764	2 pcs.	WINSTA® Socket MINI snap-in 4-pole	WAGO	890-764		
0890-0784	1 pcs.	WINSTA® Socket MINI snap-in 4-pole	WAGO	890-784		
0890-2102	1 pcs.	WINSTA®Socket MINI snap-in 2-pole	WAGO	890-2102		
2002-1401	1 pcs.	4-conductor through terminal block grey	WAGO	2002-1401		
2002-1403	1 pcs.	4-conductor through terminal block	WAGO	2002-1403		
2002-1404	1 pcs.	4-conductor through terminal block blue	WAGO	2002-1404		
2002-1407	1 pcs.	4-conductor ground terminal block green-yellow	WAGO	2002-1407		
2002-1492	2 pcs.	End and intermediate plate orange	WAGO	2002-1492		

Modification		Date	Name	Original	Replacement of	Replaced by		Summarized parts list : WAGO.890-743 - WAGO.2002-1492	distribution label : 4 Zoner Project no. : CS_DE_008044_T21 Draw. no.: CS_DE_008044_T21_CD_AC_4 Zoner	= + Page 25.a Page 29
		Date			Systembox for customer Venti A/S					
		Ed.	Adamczyk		Venti A/S					

Connection list

Connection	Source	Target	Cross-section	Color	Length	Page / column 2	Page / column 2	Function definition
	-10X1:b	-10XG1:L				/10.1	/10.1	Conductor / wire
	-10T1:L	-10X1:a				/10.3	/10.1	Conductor / wire
	-16K1:21	-10T1:L				/17.1	/10.3	Conductor / wire
	-16K1:21	-16K2:11				/17.1	/17.5	Conductor / wire
	-16K2:11	-16K3:21				/17.5	/18.1	Conductor / wire
	-16K3:21	-16K4:11				/18.1	/18.5	Conductor / wire
	-10X1:b	-10XG1:N				/10.1	/10.1	Conductor / wire
	-10T1:N	-10X1:a				/10.4	/10.1	Conductor / wire
	-10T1:N	-17XG1:N				/10.4	/17.1	Conductor / wire
	-17XG1:N	-17XG2:N				/17.1	/17.6	Conductor / wire
	-17XG2:N	-18XG1:N				/17.6	/18.1	Conductor / wire
	-18XG1:N	-18XG2:N				/18.1	/18.6	Conductor / wire
	-10X1:b	-10XG1:PE				/10.1	/10.1	Conductor / wire
	-10X1:d	-17XG1:PE				/10.1	/17.2	Conductor / wire
	-17XG1:PE	-17XG2:PE				/17.2	/17.6	Conductor / wire
	-17XG2:PE	-18XG1:PE				/17.6	/18.2	Conductor / wire
	-18XG1:PE	-18XG2:PE				/18.2	/18.6	Conductor / wire
	-10PE1:PE	-10X1:c				/10.2	/10.1	Conductor / wire
	-9K1:X3	-10T1:2				/11.1	/10.4	Conductor / wire
	-9K1:X3	-10T1:4				/11.2	/10.4	Conductor / wire
	-9K1:X1	-11XG1	27/7		0,5 m	/11.4	/11.4	Conductor / wire
	-9K1:X2	-11XG2	27/7		0,5 m	/11.5	/11.5	Conductor / wire
	-9K2:2	-10T1:1				/12.1	/10.4	Conductor / wire
	-9K2:3	-10T1:3				/12.2	/10.3	Conductor / wire
	-9K2:6	-12XG1:+				/12.5	/12.5	Conductor / wire
	-9K2:7	-12XG1:-				/12.6	/12.5	Conductor / wire
	-9K3:1	-15XG2:2				/13.1	/15.4	Conductor / wire
	-9K3:2	-15XG4:2				/13.2	/15.8	Conductor / wire
	-9K3:3	-19XG1:1				/13.3	/19.1	Conductor / wire
	-9K3:4	-19XG2:1				/13.4	/19.3	Conductor / wire
	-9K3:5	-19XG3:1				/13.5	/19.5	Conductor / wire
	-9K3:6	-19XG4:1				/13.6	/19.7	Conductor / wire
	-9K3:7	-20XG1:1				/13.7	/20.1	Conductor / wire
	-13X1:b	-21XG2:1				/13.8	/21.5	Conductor / wire
	-9K3:8	-13X1:a				/13.8	/13.8	Conductor / wire
	-13X1:d	-21XG1:1				/13.8	/21.1	Conductor / wire
	-13X1:c	-20XG2:1				/13.8	/20.5	Conductor / wire
	-9K3:9	-19XG1:3				/14.1	/19.1	Conductor / wire

25.a

26.a

Date	14.04.2021	Systembox for customer Venti A/S			Connection list : -	distribution label :	=
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Appr	J. Laursen	Replacement of	Replaced by			Project no. : CS_DE_008044_T21	Page 26
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Connection list

Connection	Source	Target	Cross-section	Color	Length	Page / column 2	Page / column 2	Function definition
	-9K3:10	-19XG2:3				/14.2	/19.3	Conductor / wire
	-9K3:11	-19XG3:3				/14.3	/19.5	Conductor / wire
	-9K3:12	-19XG4:3				/14.4	/19.7	Conductor / wire
	-9K3:13	-20XG1:4				/14.5	/20.1	Conductor / wire
	-9K3:14	-20XG2:4				/14.6	/20.6	Conductor / wire
	-9K3:15	-21XG1:4				/14.7	/21.1	Conductor / wire
	-9K3:16	-21XG2:4				/14.8	/21.6	Conductor / wire
	-9K4:1	-15XG1:1				/15.1	/15.1	Conductor / wire
	-9K4:2	-15XG1:2				/15.2	/15.1	Conductor / wire
	-9K4:5	-15XG2:1				/15.4	/15.4	Conductor / wire
	-9K4:4	-15XG3:1				/15.5	/15.5	Conductor / wire
	-9K4:6	-15XG3:2				/15.6	/15.5	Conductor / wire
	-9K4:8	-15XG4:1				/15.8	/15.8	Conductor / wire
	-9K5:3	-16K1:A2				/16.3	/16.1	Conductor / wire
	-9K5:3	-16K2:A2				/16.3	/16.4	Conductor / wire
	-16K2:A2	-16K3:A2				/16.4	/16.5	Conductor / wire
	-16K3:A2	-16K4:A2				/16.5	/16.8	Conductor / wire
	-9K5:1	-16K1:A1				/16.1	/16.1	Conductor / wire
	-9K5:5	-16K2:A1				/16.4	/16.4	Conductor / wire
	-9K5:4	-16K3:A1				/16.5	/16.5	Conductor / wire
	-9K5:6	-22XG1:1				/16.6	/22.1	Conductor / wire
	-9K5:7	-22XG1:4				/16.7	/22.1	Conductor / wire
	-9K5:8	-16K4:A1				/16.8	/16.8	Conductor / wire
	-9K6:1	-17T1:S2				/17.1	/17.1	Conductor / wire
	-17T1	-17XG1:1/L'				/17.1	/17.1	Conductor / wire
	-16K1:14	-17T1:P1				/17.1	/17.1	Conductor / wire
	-16K1:11	-16K2:21				/17.1	/17.5	Conductor / wire
	-16K1:24	-17XG1:2/L				/17.1	/17.1	Conductor / wire
	-9K6:2	-17T1:S1 P2				/17.2	/17.1	Conductor / wire
	-9K6:5	-17T2:S2				/17.5	/17.5	Conductor / wire
	-17T2	-17XG2:1/L'				/17.5	/17.5	Conductor / wire
	-16K2:14	-17T2:P1				/17.5	/17.5	Conductor / wire
	-16K2:24	-17XG2:2/L				/17.5	/17.5	Conductor / wire
	-9K6:6	-17T2:S1 P2				/17.6	/17.5	Conductor / wire
	-9K7:1	-18T1:S2				/18.1	/18.1	Conductor / wire
	-18T1	-18XG1:1/L'				/18.1	/18.1	Conductor / wire
	-16K3:14	-18T1:P1				/18.1	/18.1	Conductor / wire
	-16K3:11	-16K4:21				/18.1	/18.5	Conductor / wire

Date	14.04.2021	Systembox for customer Venti A/S			Connection list : -	distribution label :	=
Ed.	Adamczyk	Venti A/S				4 Zoner	+
Appr	J. Laursen	Replacement of				Project no. : CS_DE_008044_T21	Page 26.a
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