

Circuit diagram 227

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STOLL

Computer CKC1, Ident. No.: 281 077.00

CMS	BMS												
Typ	836												
Circuit diagram 227	X												

ELECTRICAL DATA OF CMS MACHINES

Mains voltage : 230V
±10% 50/60 Hz
Phase number :1
Rated current F0 :10A
Main fuse (of customer) :16 A slow-blow fuse

Mains connection:

Caution! Before connecting check for the mains voltage which is at the operating place of the machine.

The connection of external electrical and electronical assemblies to the internal wiring of the machine is generally not allowed.

A guarantee for a faultless function of the machine cannot be ensured in those cases.

When operating the machine via a generator take care that the requirement to the mains voltage is carried out according to EN 60204-1 paragr. 4.3.1.

Circuit diagram 227

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Computer CKC1, Ident. No.: 281 077.00**Identification of the plug connectors, sensors and actuators**

A__	Assemblies
B__	Switches
CN__	Plug connectors on the control units (cable outlets)
E__	Lighting; Ventilator
F__	Fuses
M__	Motors
P__	Signal equipment
T__	Transformers
W__	Cable
Y__	Brakes, magnets

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Computer CKC1, Ident. No.: 281 077.00

Identifier	Designation	Value/function	Ident No. BMS
A1	Conrol unit complet		279488
A2	Servo 2 axis		280314
A3	Touch Limit Board		280316
A4	Take down driver (comb)		280317
A5	DC 420V Power Supplier		280318
A6	Main Controller		280319
A7	I/O Board		280320
A8	Card emergency Stop		280322
A9	Main switch		279013
A10	Servo amlifier		280315
A11	CKC controller		279025
A12	Multi touch Panel		301057
A13	Power supply DC/DC 5V		279518
A14	Power supply DC/DC 12V		279519
A15	Power supply 13,8V		279520
A16	Card engaging rod		279949
A17	Comb card		280415
B1	Switch main power off		279058
B2	Switch main power on		279057
B3	Limit switch right		279696
B4	Limit switch left		279696
B5	Switch Protective hood		270127
B6	FKE		267212
B7	Tape take down winding control 1		279430
B8	Racking sensor (light barrier)		279157
B9	Carriage sensor left		279696
B10	Yarn tensioner right		279430
B11	Yarn tensioner left		279430
B12	Carriage sensor right		279696
B13	Emergency stop		279053
B14	Light barrier comb	n.c.	---
B15	Tape take down open		279563
B16	Winding plate		279430
B17	Cover comb2 (depressed)		026 259
B18	Cover comb1 (open)		026 259
B19	Comb hook open		279430
B20	Comb hook closed		279430
B21	Sensor motor clamping1		279430
B22	Sensor cutting		279430
B23	Sensor motor clamping2		279430
B24	encoder		279430
B25	Save sensor		279430
B26	Reset sensor		279430
B32	Switch winding plate feed wheel	in M 6	
B41li	Thermoswitch feed wheel left	in M 6	----
B41re	Thermoswitch feed wheel right	in M 6	
F0	Protective motor switch	In A9	235 115
F1	transformer 220V	In T1	
F2	transformer 110V	In T1	
F3	Transformer 42V	In T1	

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Computer CKC1, Ident. No.: 281 077.00

Identifier	Designation	Value/function	Ident No. BMS
F4	Fuse MTP (Panel)	4AMT	275395
F5	Fuse batterie	6,3A	008746
P1	Lamp above		279500
P2	Lamp below		279500
P3	Warning light		279622
P4	buzzer		279778
M 1	Drive motor		279493
M 2	Rear racking motor		279167
M 3	Tape take-down motor		279576
M 4	Comb motor		279427
M 5	Comb hook motor		279429
M 6	Friction feed wheels		279799
M 7	Motor clamping 2		
M 8	Motor clamping 1		
M 9	Motor cutting		
T1	Main transformer		280314
W 1	Cable1 Master-Comb		280326
W 2	Cable1 Master-Comb		280327
W 3	Cable PFC-Master 420V		280324
W 4	Cable Data Master-Servo		280325
W 5	Cable 24V Master-Comb CN7		280328
W 6	Cable Touch Limit-Master		280333
W 7	Cable Touch Limit-PFC		280323
W 8	Cable Touch Limit-Servo (AC 220V)		280331
W 9	Cable Touch Limit-Trafo (AC 220V)		280332
W10	Cable Touch Limit-I/O Board 24V CN6		280334
W11	Cable CAN Comb-Takedown		280329
W12	Cable CAN Takedown-Servo		280330
W13	Cable Trafo-Comb CN17		280335
W14	Cable Trafo-Take Down		279788
W15	Cable Logic emergency stop CN3		280336
W16	Cable Logic emergency stop CN4		280419
W17	Cable motor main drive		279679
W18	Cable encoder main drive		279680
W19	Cable motor racking		279681
W20	Cable encoder racking		279682
W21	Cable touch limit switch CN6		279677
W22	Cable K/S left CN20		279781
W23	Cable K/S right CN21		279782
W24	Cable switch comb hook CN19		279783
W25	Cable switch take down CN18		279784
W26	Cable signals CN3 CN4		279675
W27	Cable warning light		279676
W28	Cable power tape take down drive		279672
W29	Cable piezo CN8		279674
W30	Cable sensor comb CN3		279673
W31	Cable break comb		279787
W32	Cable extension warning light		279693
W33	Cable extension FKE		280337

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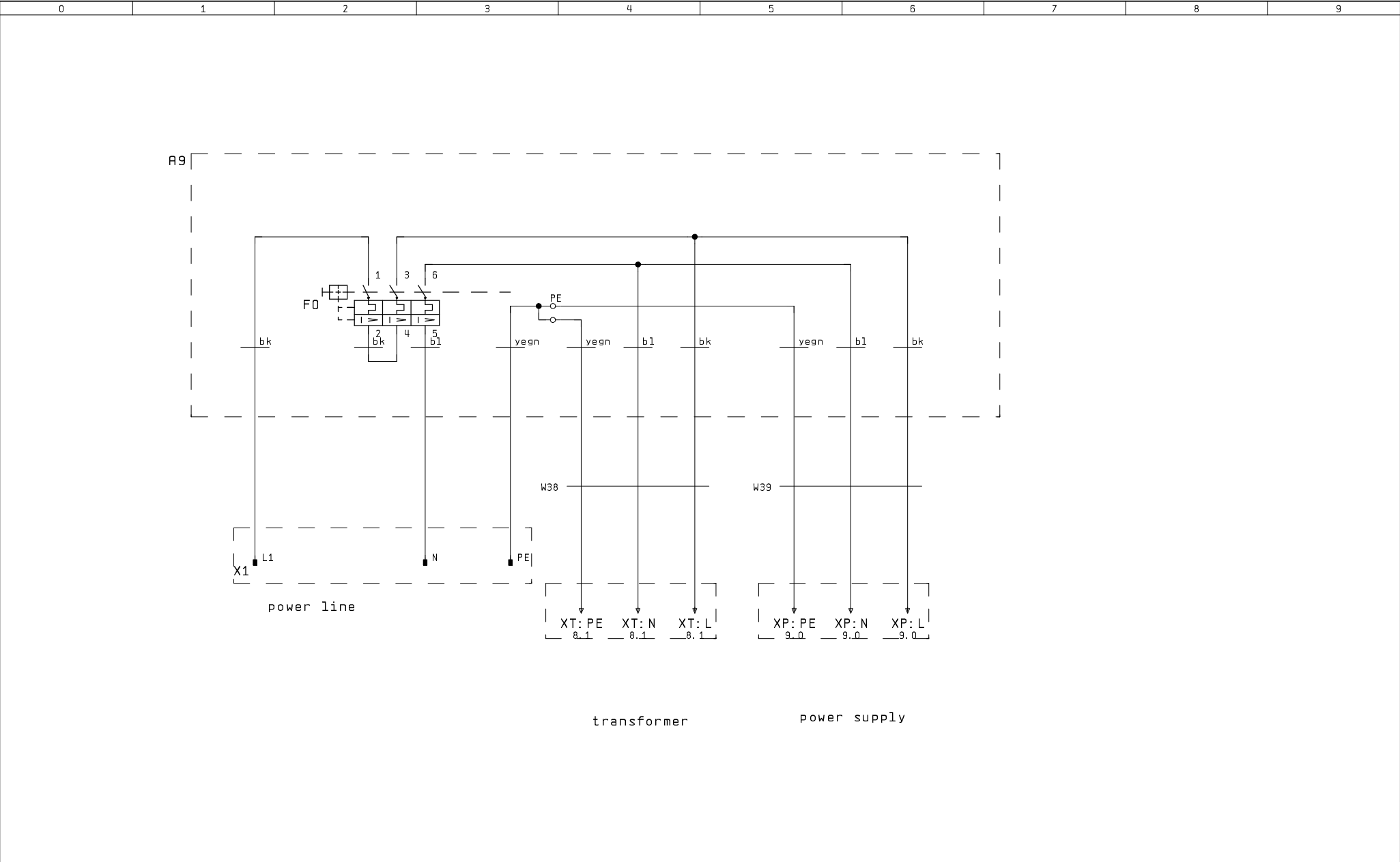
Computer CKC1, Ident. No.: 281 077.00

Identifier	Designation	Value/function	Ident No. BMS
W34	Cable signals tape take down drive		280450
W35	Cable adapter feeder		279790
W36	Cable adapter Signals		279952
W37	Cable adapter emergency stop		279953
W38	Cable powerline Transformer		279014
W39	Cable main switch - power supply		279017
W40	Cable protective hood		279047
W41	Cable motor comb power		279786
W42	Cable motor comb power CN25		279785
W43	Cable CAN Take down		280329
W44	Cable brake comb CN6		280417
W45	Cable cover comb		280418
Y1	Brake motor comb	in M4	x

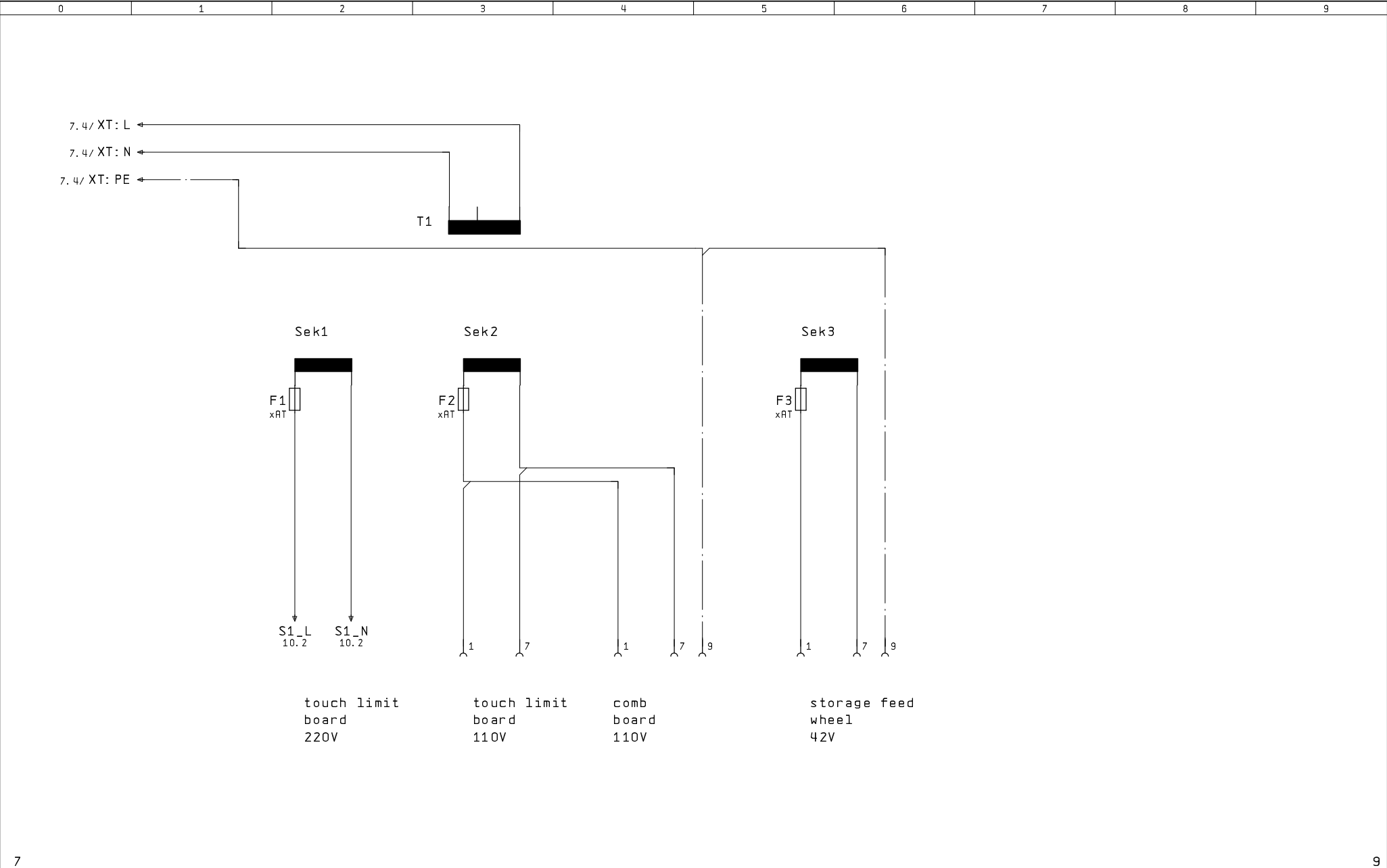
Connectors I/O-Board

I/O board / Comb hook / feed wheel

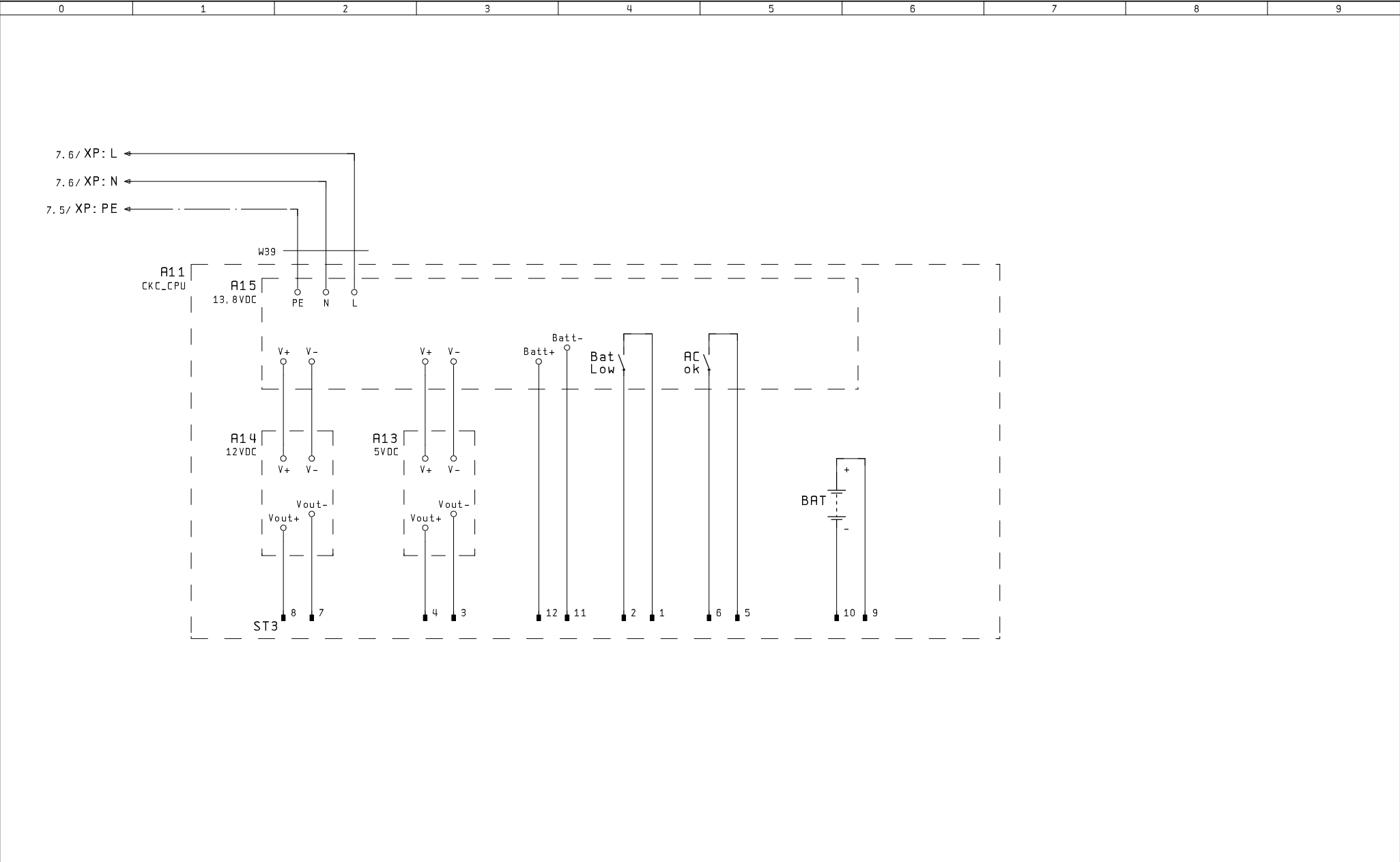
connector	function	connector	function
CN1	connection to the mainboard	CN14	n.c. (main take down)
CN2	connection to the mainboard	CN15	feed wheel right 42V n.c.
CN3	sensors	CN16	feed wheel left 42V n.c.
CN4	sensors	CN17	110V / 42V from transformer
CN5	sensors	CN18	sensors
CN6	24V to touch limit board board	CN19	sensors
CN7	24V to mainboard	CN20	cutting and clamping left
CN8	CAN Bus 2	CN21	cutting and clamping right
CN9	CAN Bus 1	CN22	n.c. (6 parameterized outputs 24V)
CN10	buzzer	CN23	n.c. (open/close band take down)
CN11	n.c.	CN24	n.c. (comb motor, not adjustable)
CN12	6 parameterized outputs (24V)	CN25	comb hook motor
CN13	friction feed wheel (110V)	CN26	n.c. (comb motor, brake)



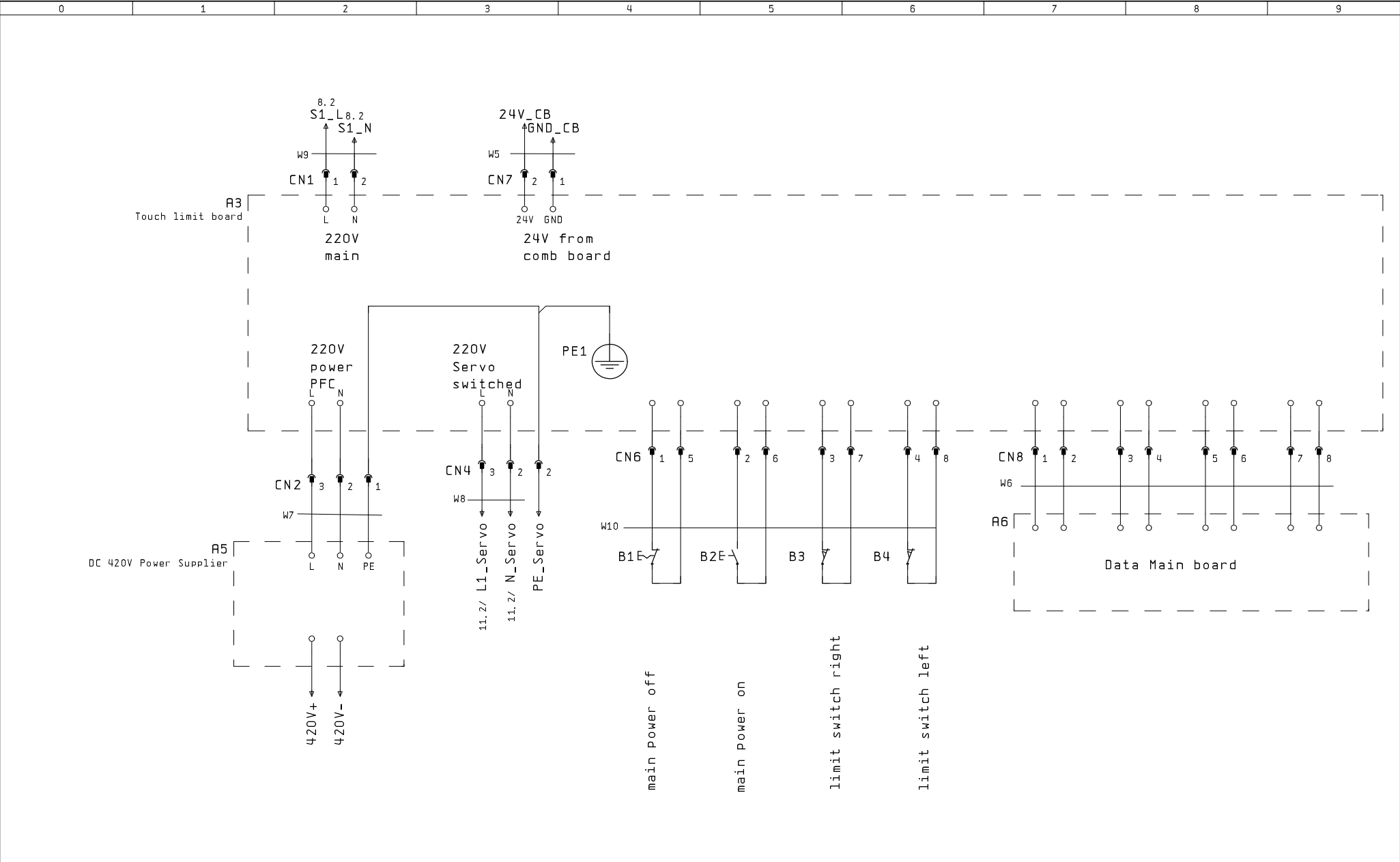
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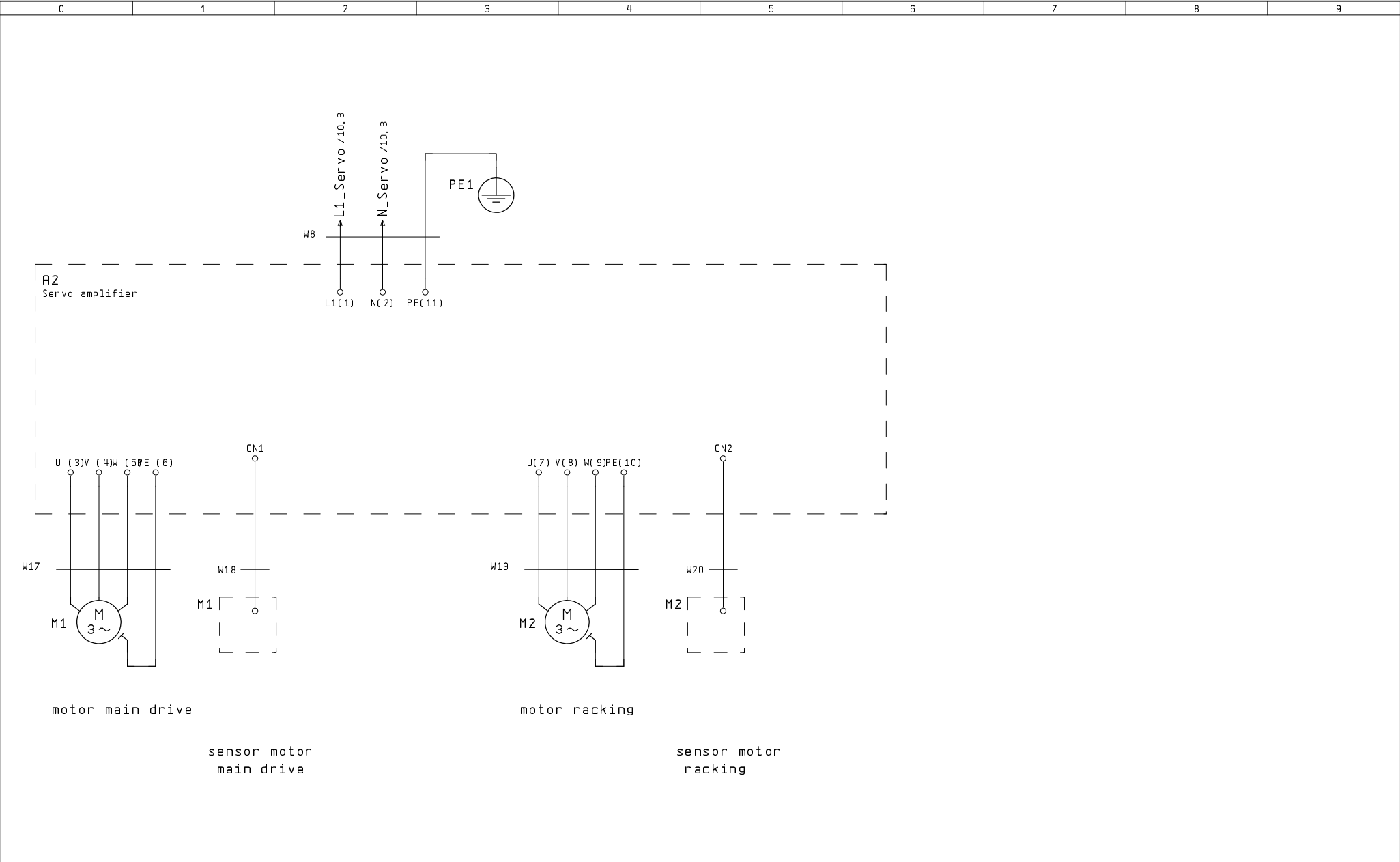
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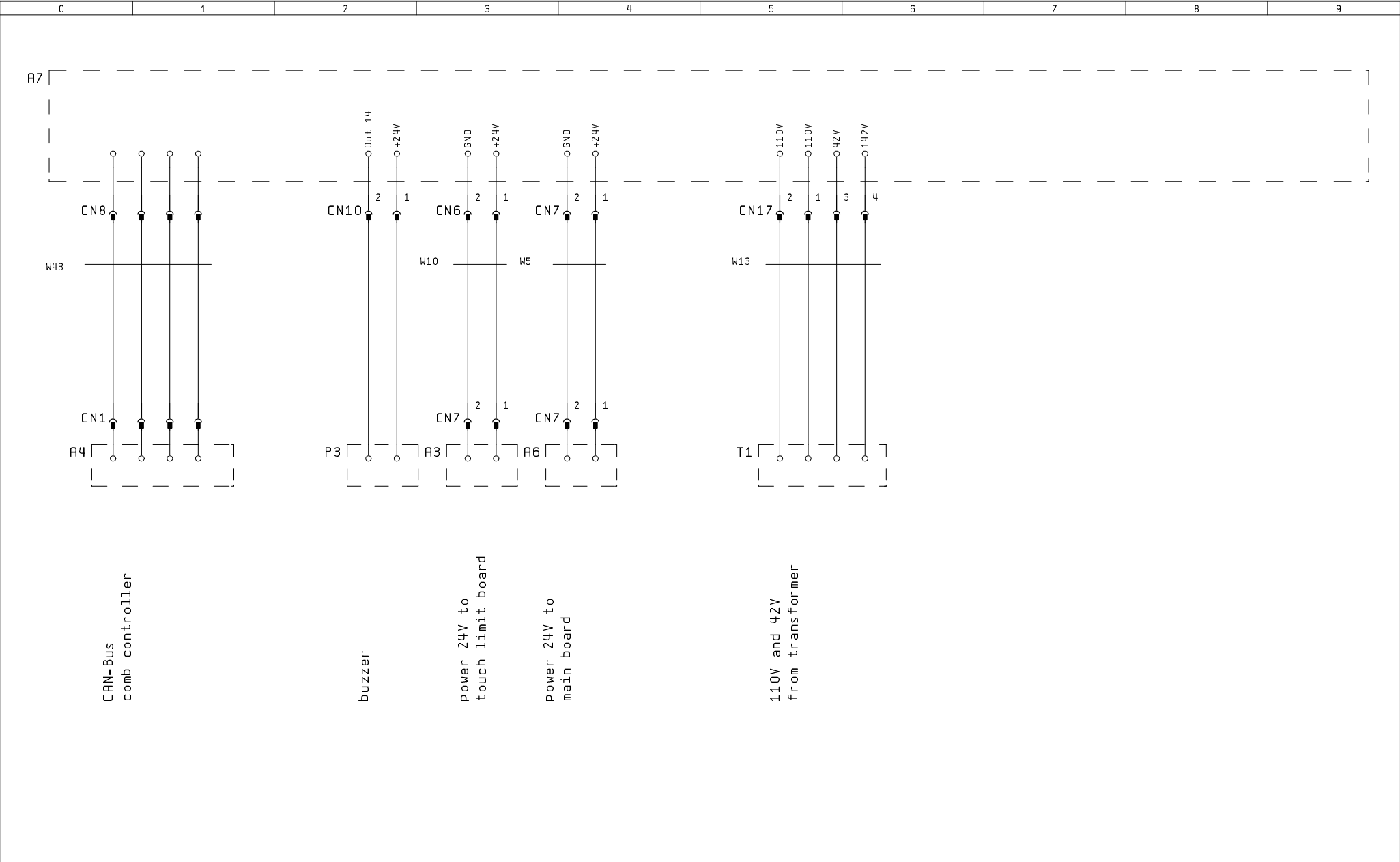
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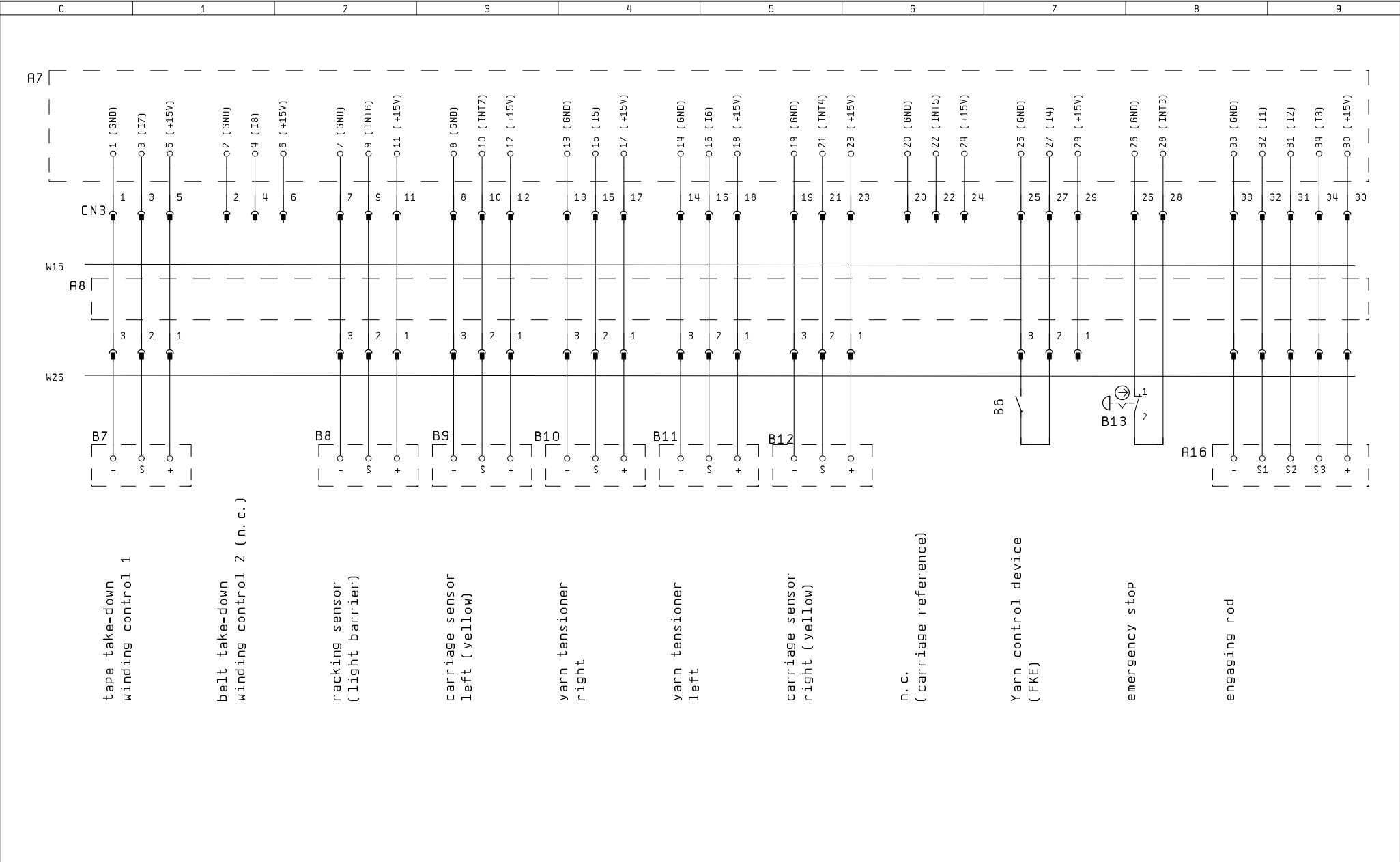
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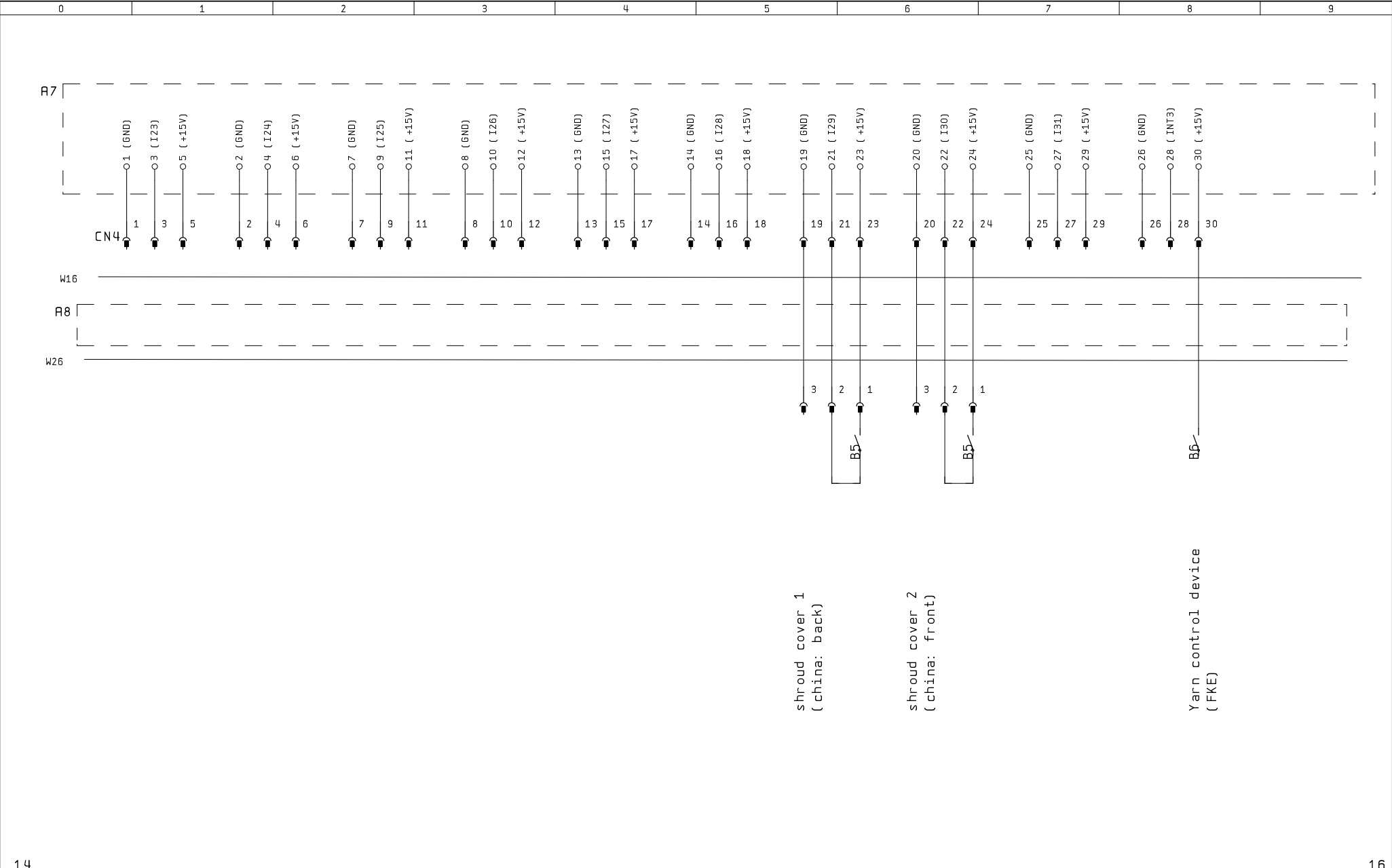
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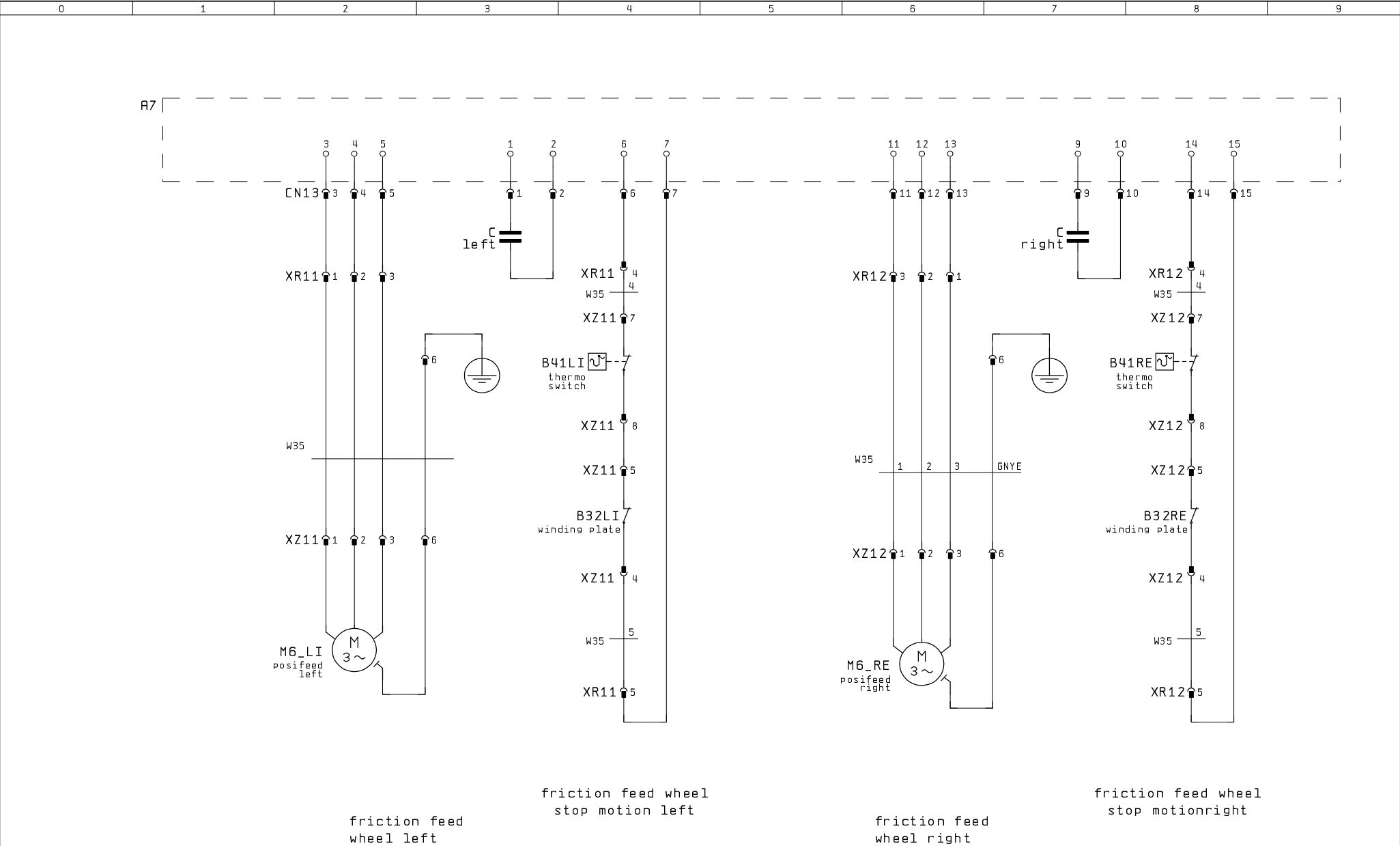
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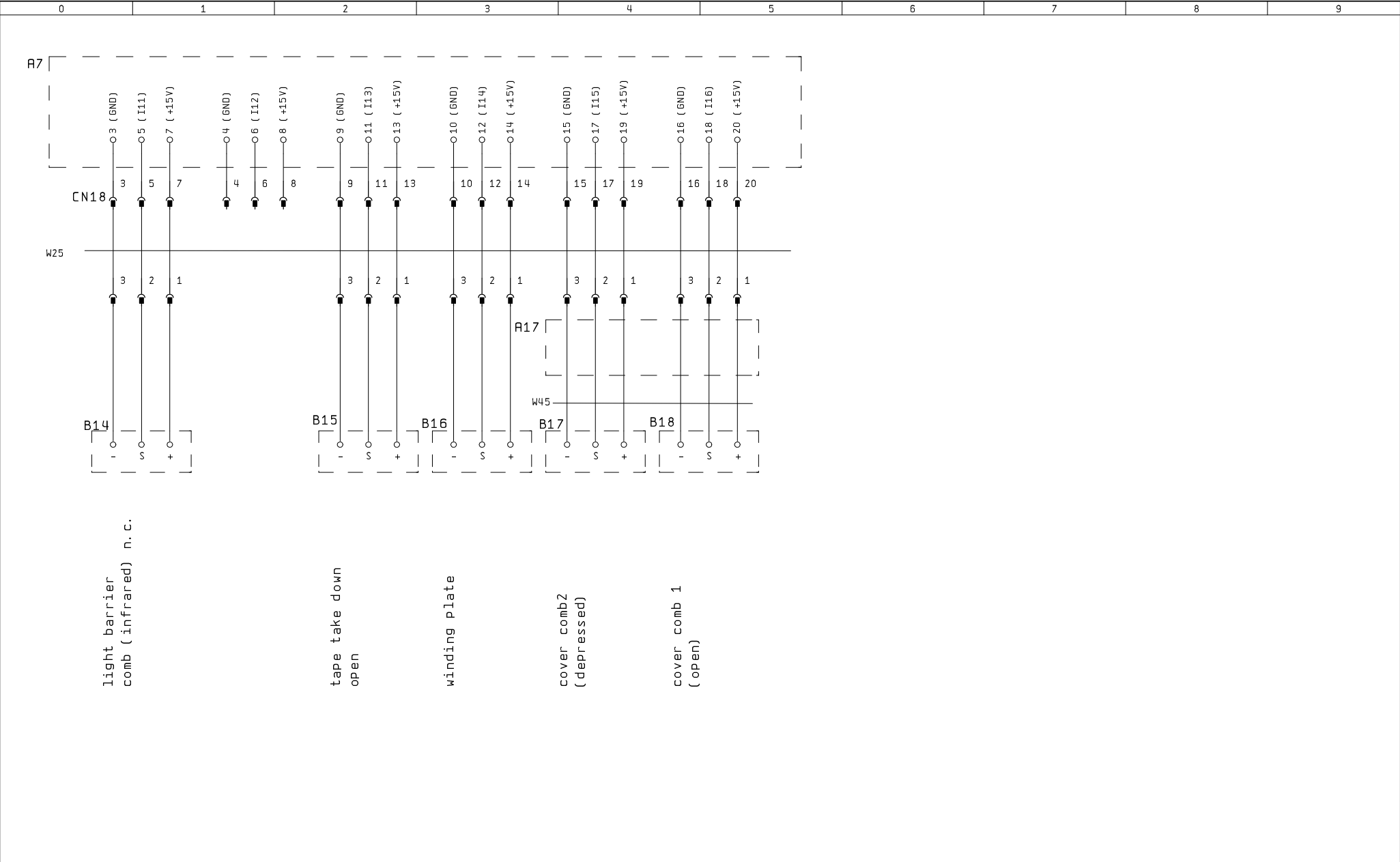
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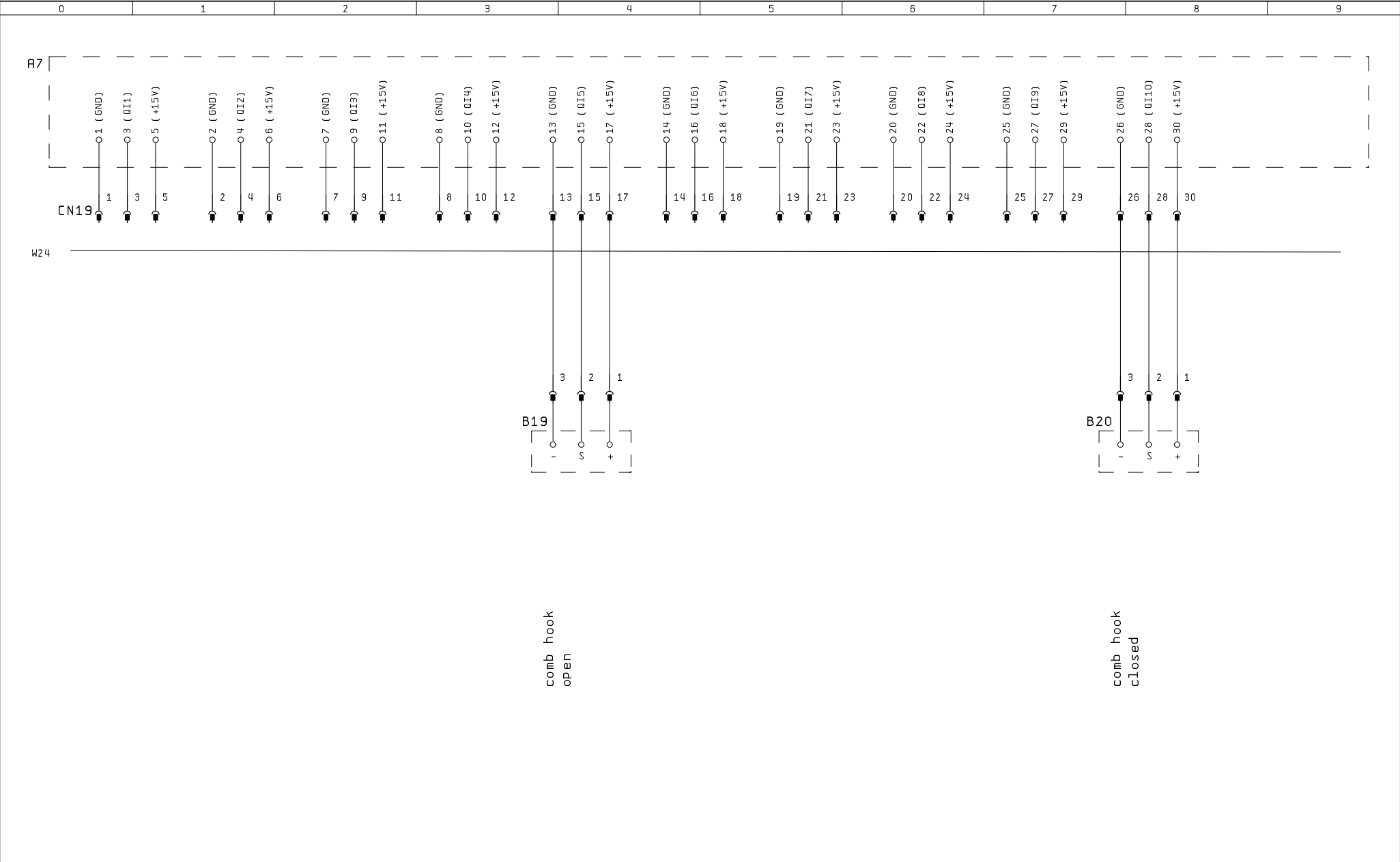
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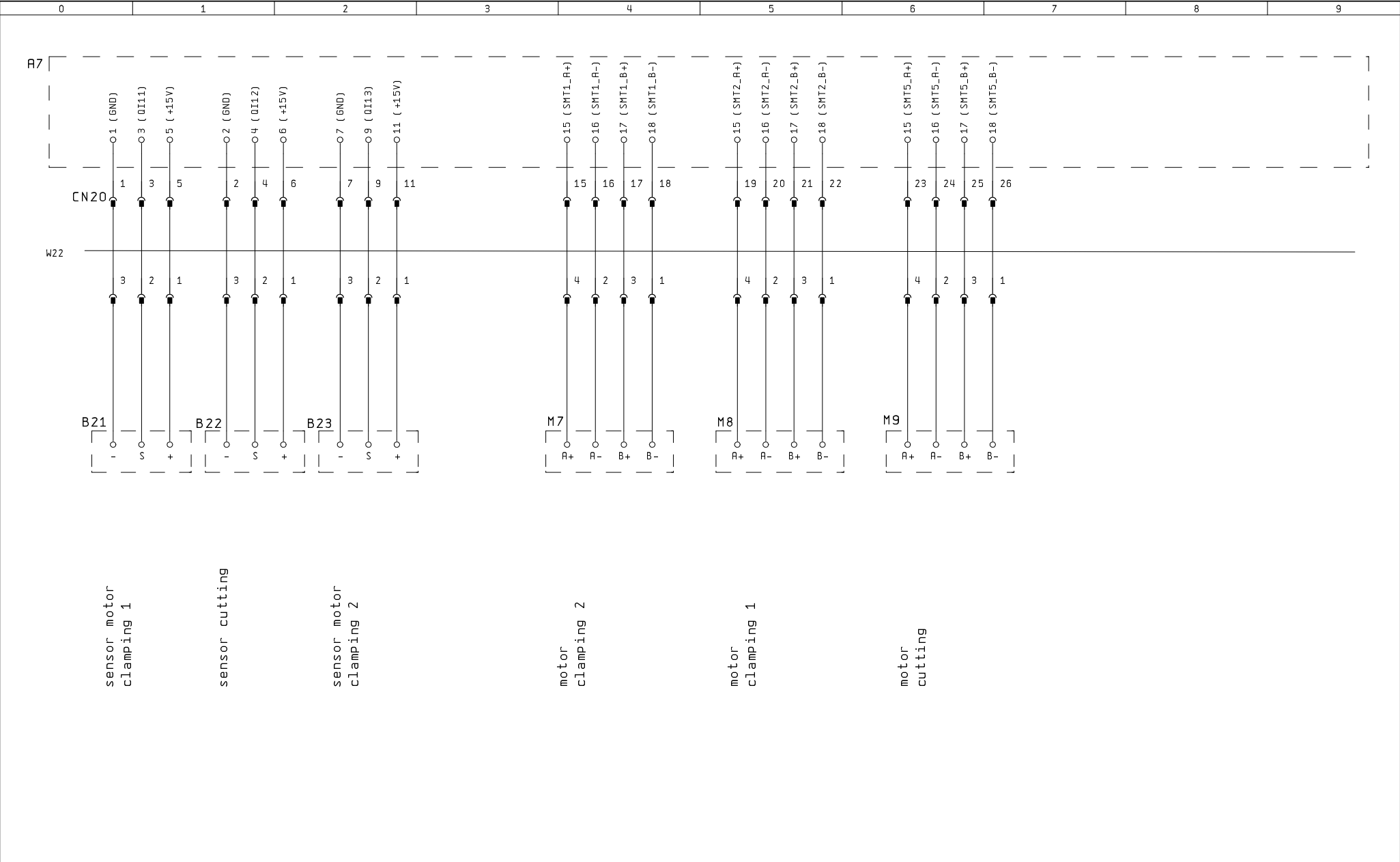
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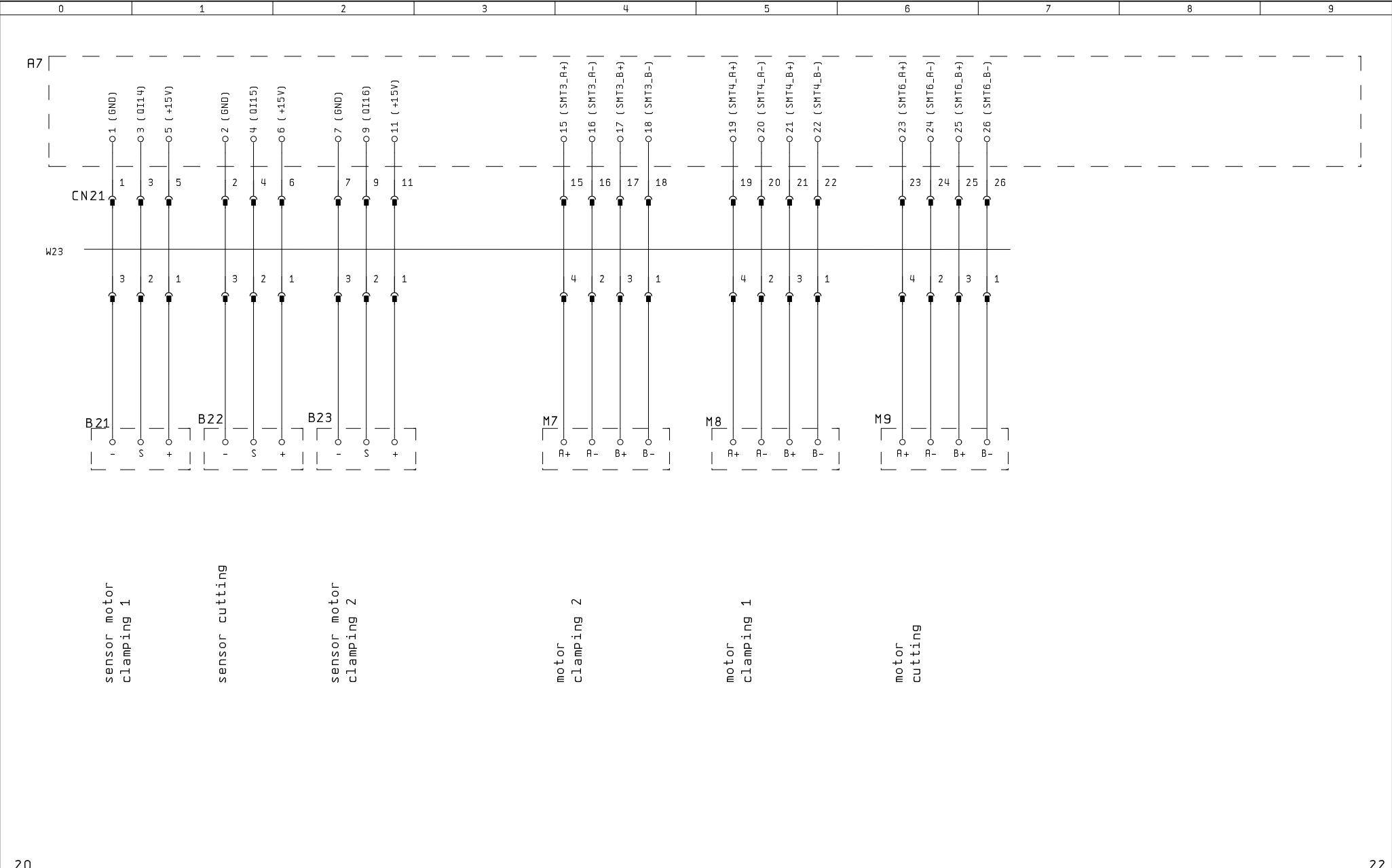
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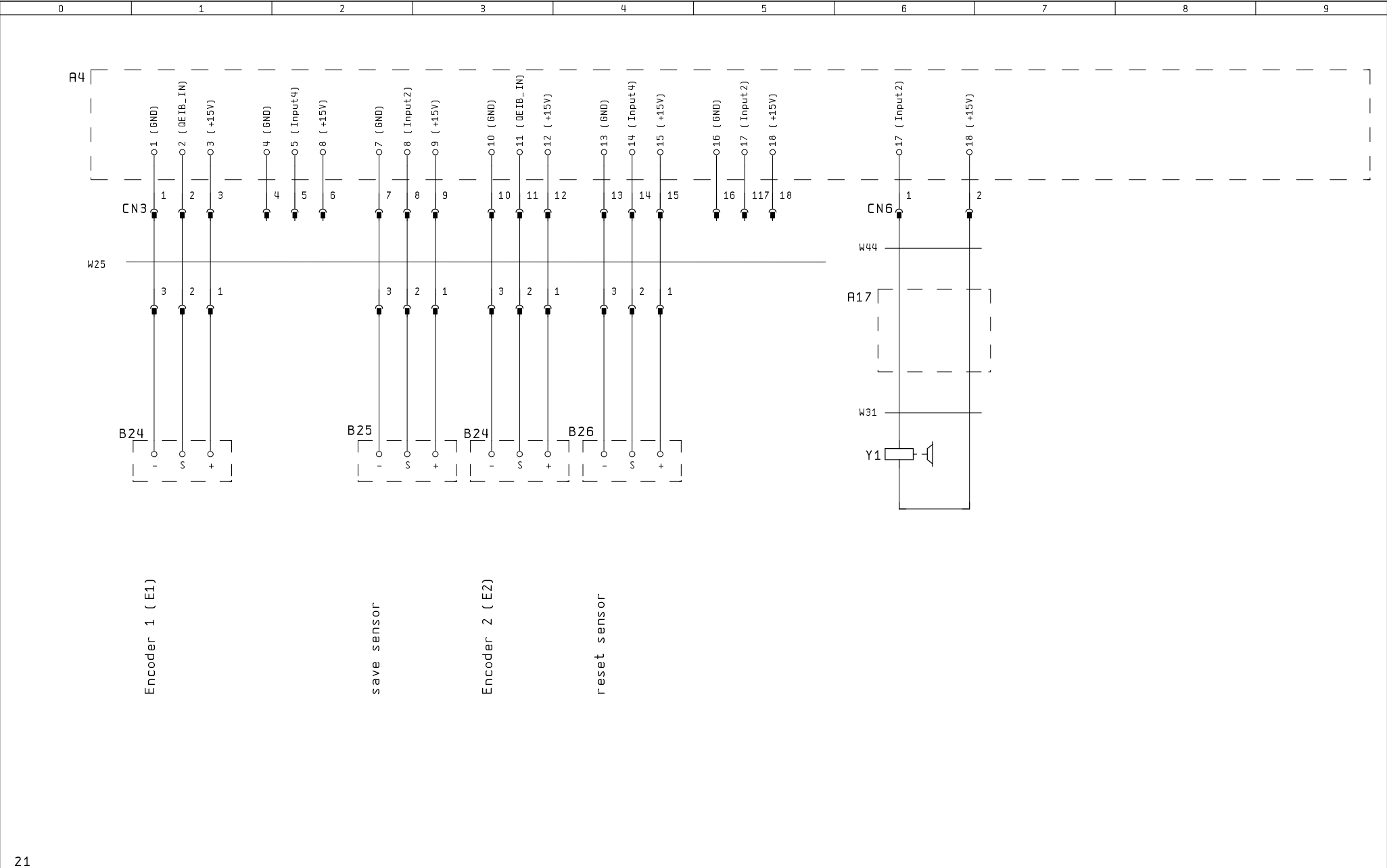
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