JHI, USA

Hammermill Room

+MCC13

Dan-Web Machinery A/S > Røddikvej 82 > DK-8464 Galten > Tel. +45 87 43 95 00

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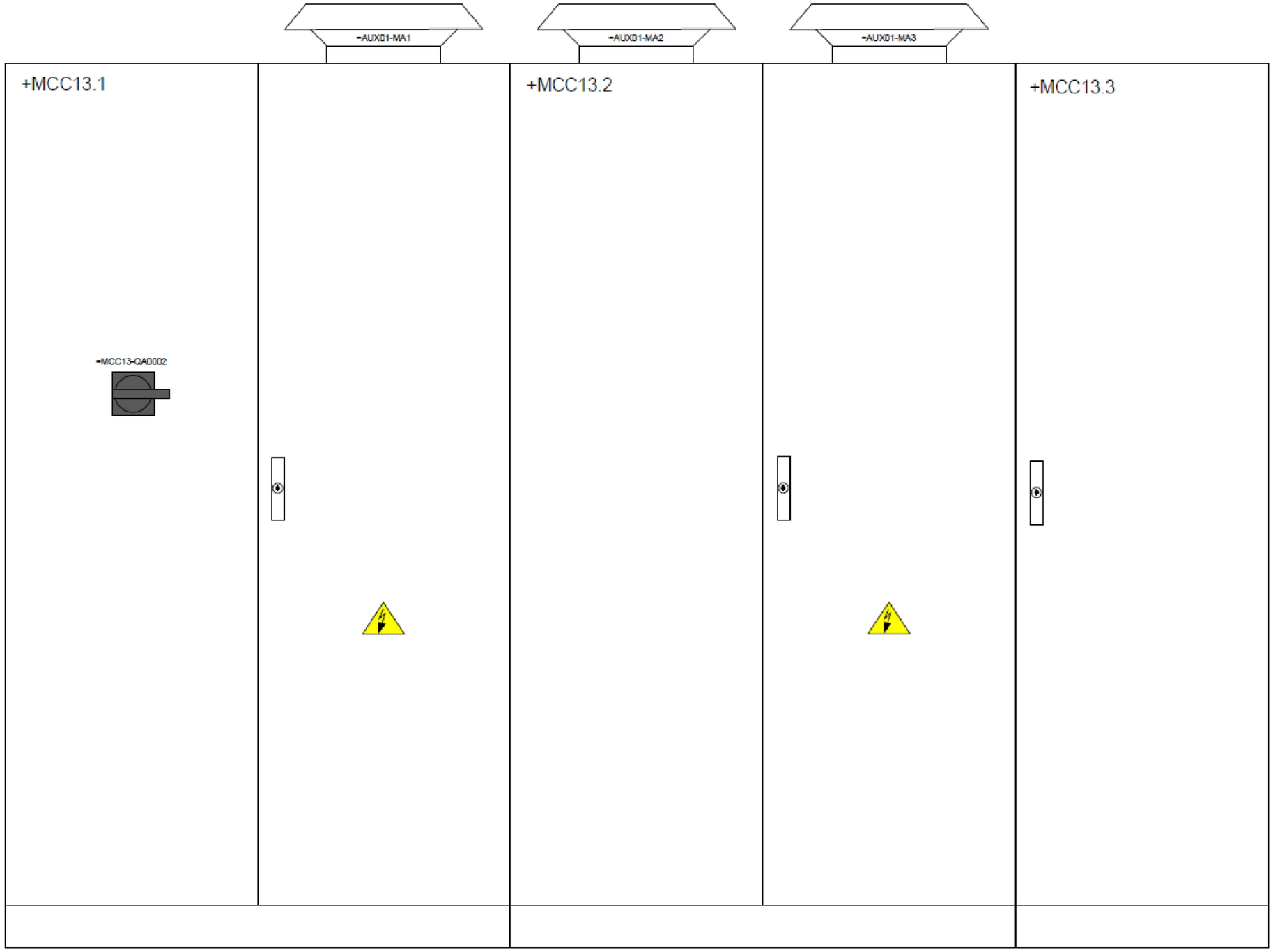

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Page title
+MCC13.1 Motor Control Cabinet
Layout Control Cabinet

Constructor	DK	JHI, USA Hammermill Room	
Revision	A01	Project no. P100034	**File: P100034 DanWeb JHI - MCC13 rev.A08 CCH** Last change: 14-12-2020

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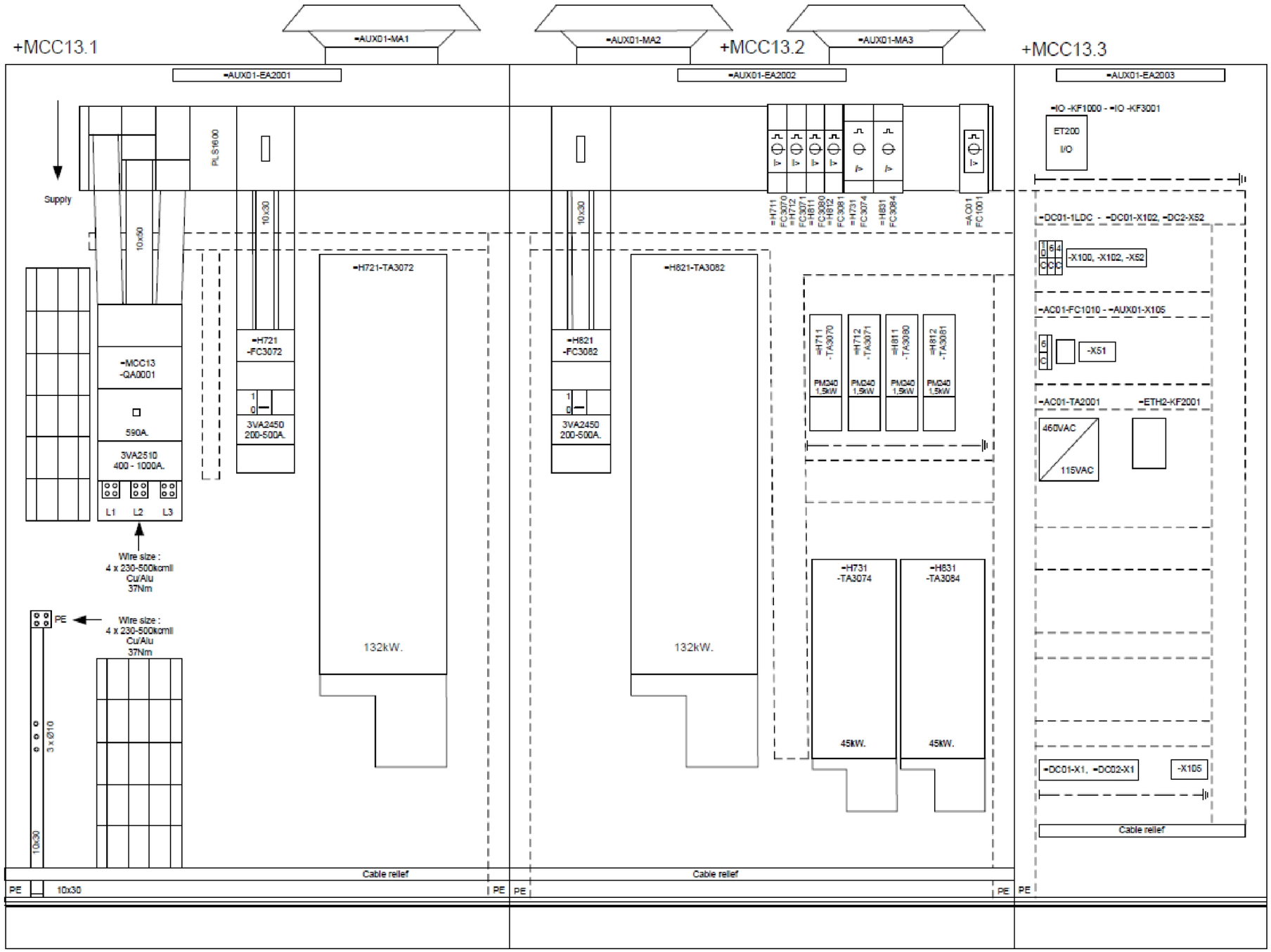

Dan-Web®	Page title **+MCC13.1 Motor Control Cabinet** Layout Control Cabinet	Constructor DK	JHI, USA Hammermill Room			
		Revision A01	Project no. P100034	**File: P100034 DanWeb JHI - MCC13 rev.A08 CCH** Last change: 14-12-2020	Next page =POW01	Page 101

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Power distribution

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0	1	2	3	4	5	6	7	8	9

L1 → 300.0
L2 → 300.0
L3 → 300.0
⏚ → 1022.9

+MCC13.3
=IO13-KF3001
501.6
6ES7131-6BH01-0BA0
MCC13_QA0001

Main Breaker MCC13
Circuit Breaker

I11.0
DI

9(DI8)
210-00

+MCC13.1
=MCC13-QA0001
.4
3VA6610-5HL32-0AA0
In. 1000A
Ir: Thermal setting: 800A
Ii: Magnetic setting: 8000A
Tid/s: 1

1 3 5
2 4 6
L1, L2, L3, PE

3VA9978-0AA11

2 4
1

210-01
2L+3B → 280.7

3VA9673-0JJ43
Main Breaker M6 - 5Nm

Terminal Logs 37 Nm
Wire size CU/AL: 4x230-500kcmil

Voltage 3x460V+PE 60Hz

Total FLA 360kW / 568A

Largest motor FLA 132kW / 213A

Max. Short-circuit current 35kA

(=) Function aspect
=MCC13 Main Power
(+) Location aspect
+MCC13.1 Motor Control Cabinet

Dan-Web®

Page title: **+MCC13.1 Motor Control Cabinet** Incomming supply	Constructor: DK	JHI, USA Hammermill Room			
	Revision: A01	Project no.: P100034	**File: P100034 DanWeb JHI - MCC13 rev.A08 CCH** Last change: 28-01-2021	Next page: =DC	Page: 210

24VDC Power Supply

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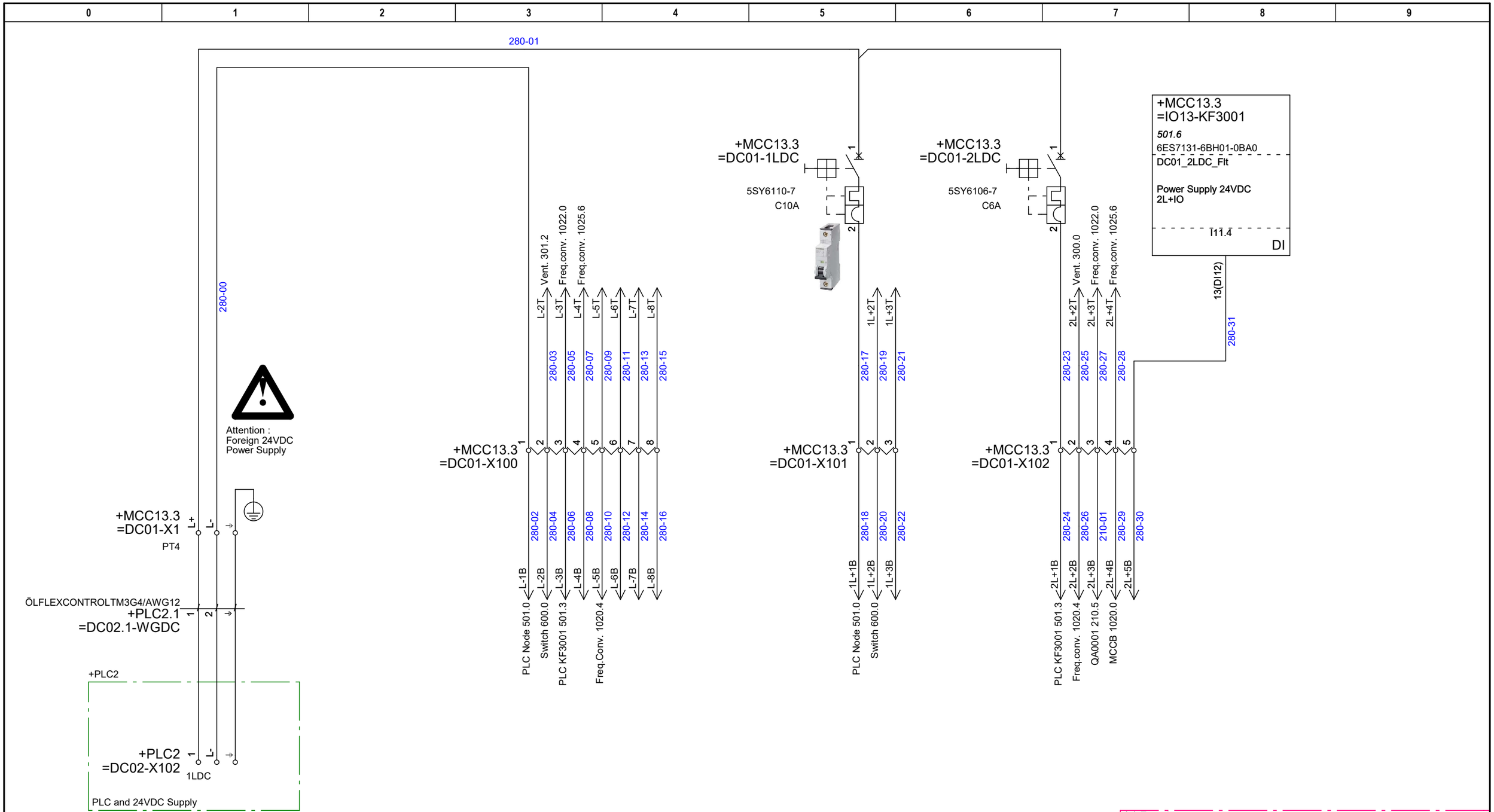

(=) Function aspect
=DC01 24VDC Power Supply for PLC Control-power
(+) Location aspect
+MCC13.3 Motor Control Cabinet

Dan-Web®

Page title **+MCC13.3 Motor Control Cabinet** External 24VDC power supply	Constructor DK	JHI, USA Hammermill Room				
	Revision A01	Project no. P100034	**File: P100034 DanWeb JHI - MCC13 rev.A08 CCH** Last change: 16-06-2021		Next page 290	Page 280

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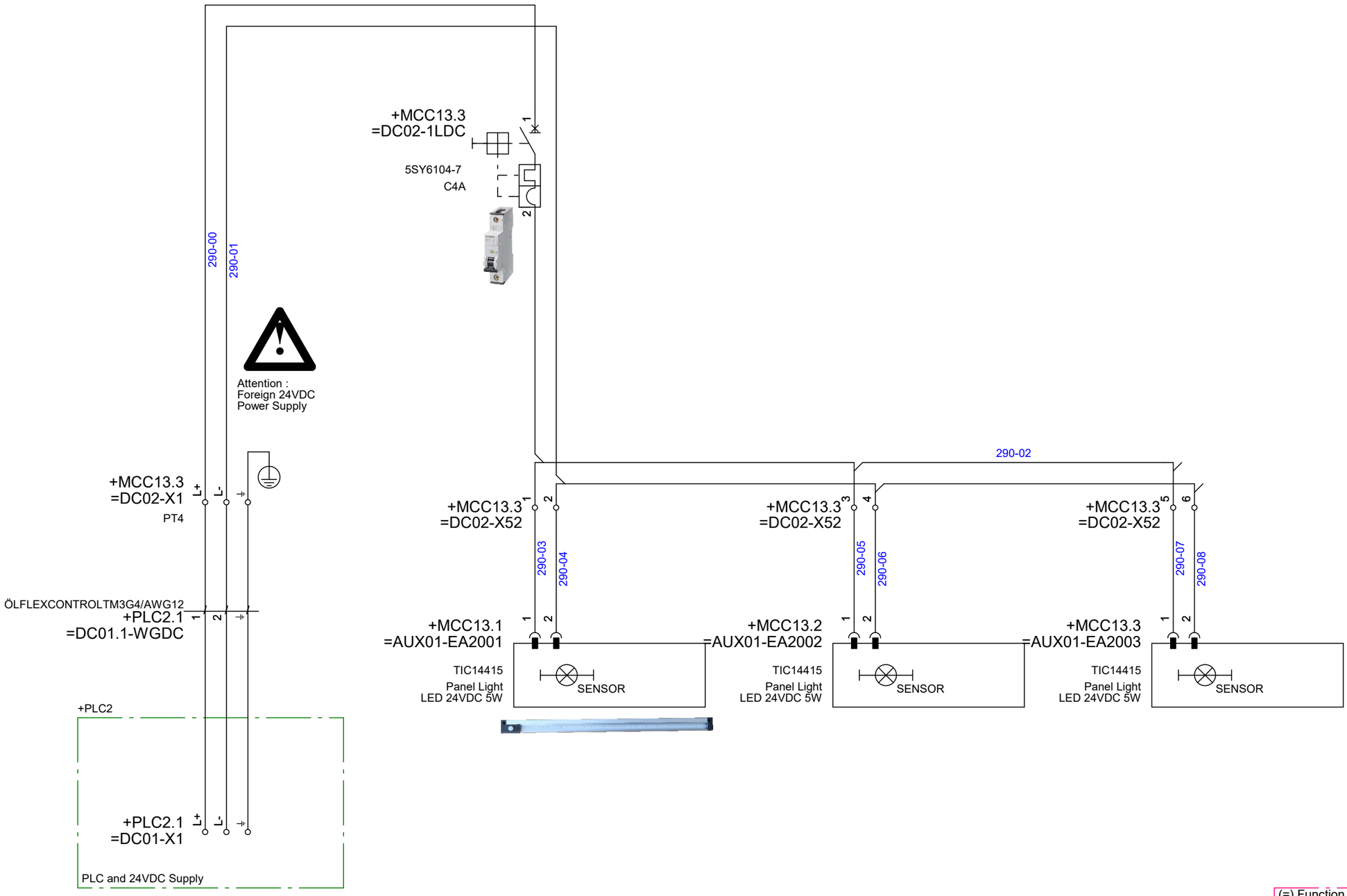

(=) Function aspect
=DC02 24VDC Power Supply
(+) Location aspect
+MCC13.3 Motor Control Cabinet

Dan-Web®

Page title **+MCC13.3 Motor Control Cabinet** 24Vdc Power Supply for Panel-light	Constructor DK	JHI, USA Hammermill Room			
	Revision A01	Project no. P100034	**File: P100034 DanWeb JHI - MCC13 rev.A08 CCH** Last change: 16-06-2021	Next page =AC01	Page 290

115VAC Power Supply for Panel-fans

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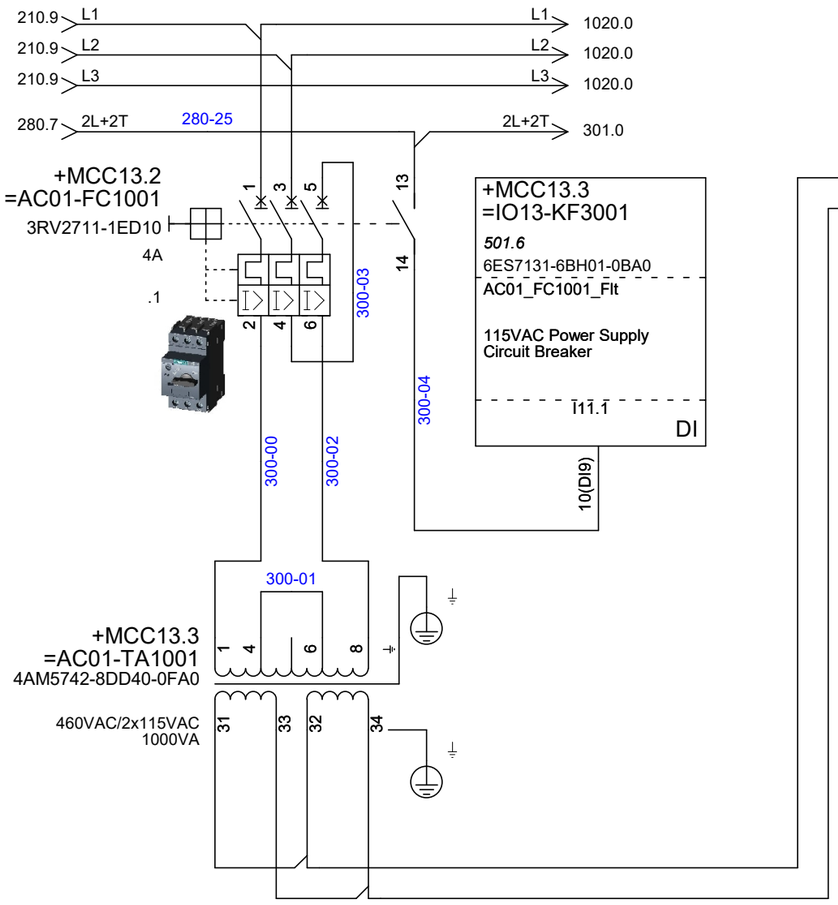

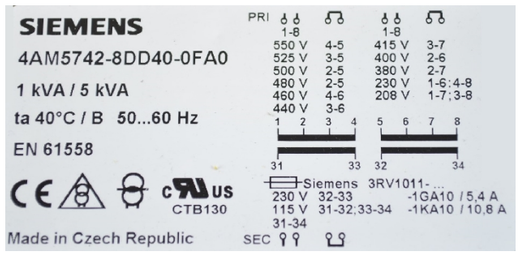

(=) Function aspect
=AC01 115VAC Control Power for Panel-fans
(+) Location aspect
+MCC13.3 Motor Control Cabinet

Dan-Web	Page title: **+MCC13.3 Motor Control Cabinet** 230VAC Power Supply for Panel-fans	Constructor: DK	JHI, USA Hammermill Room		
		Revision: A01	Project no.: P100034	**File: P100034 DanWeb JHI - MCC13 rev.A08 CCH** Last change: 09-12-2020	Next page: 301 / Page: 300

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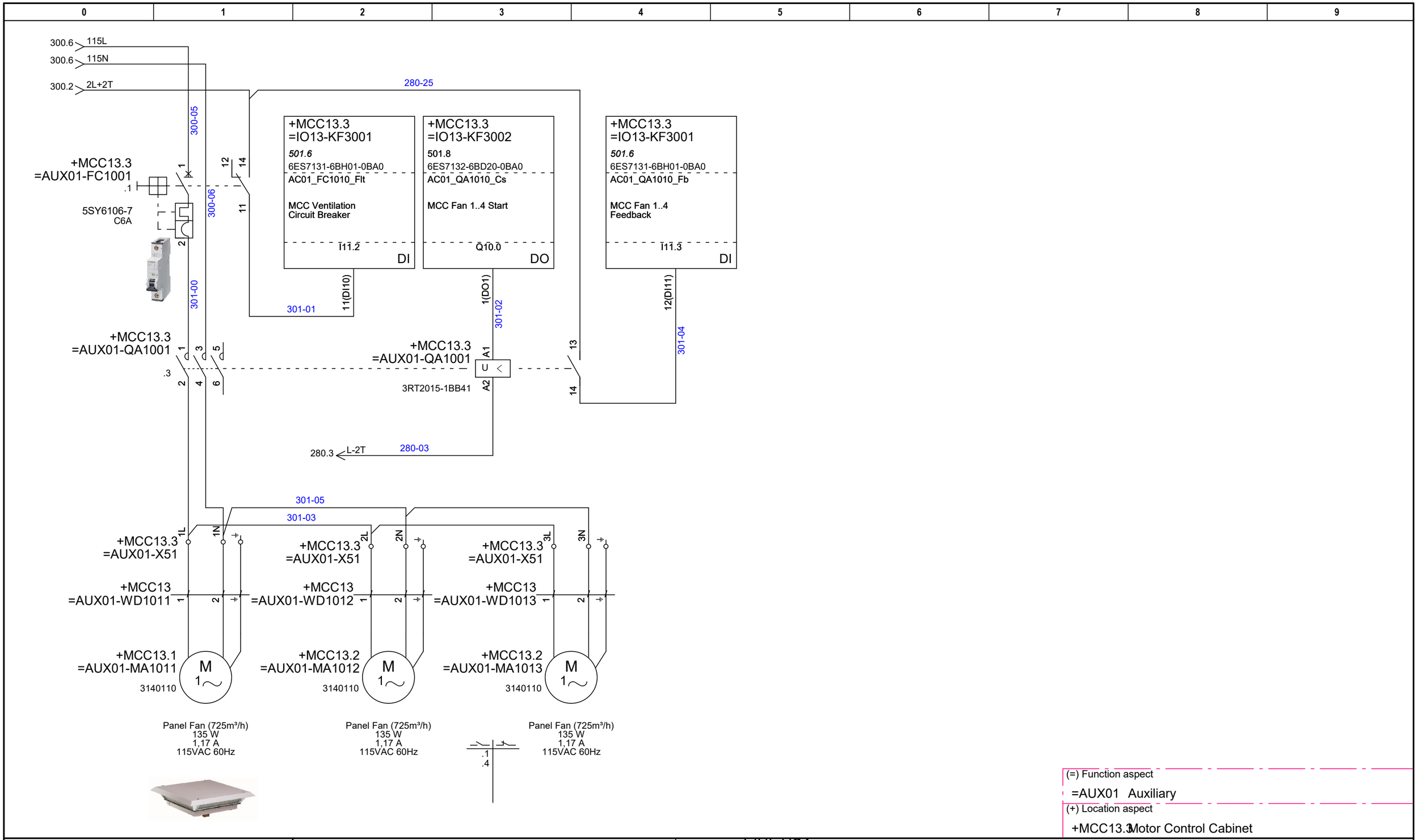

(=) Function aspect
=AUX01 Auxiliary
(+) Location aspect
+MCC13.3 Motor Control Cabinet

Dan-Web	Page title **+MCC13.3 Motor Control Cabinet** Cooling fan	Constructor DK	JHI, USA Hammermill Room		
		Revision A01	Project no. P100034	**File: P100034 DanWeb JHI - MCC13 rev.A08 CCH** Last change: 09-12-2020	Next page =IO1	Page 301

Distributed I/O system

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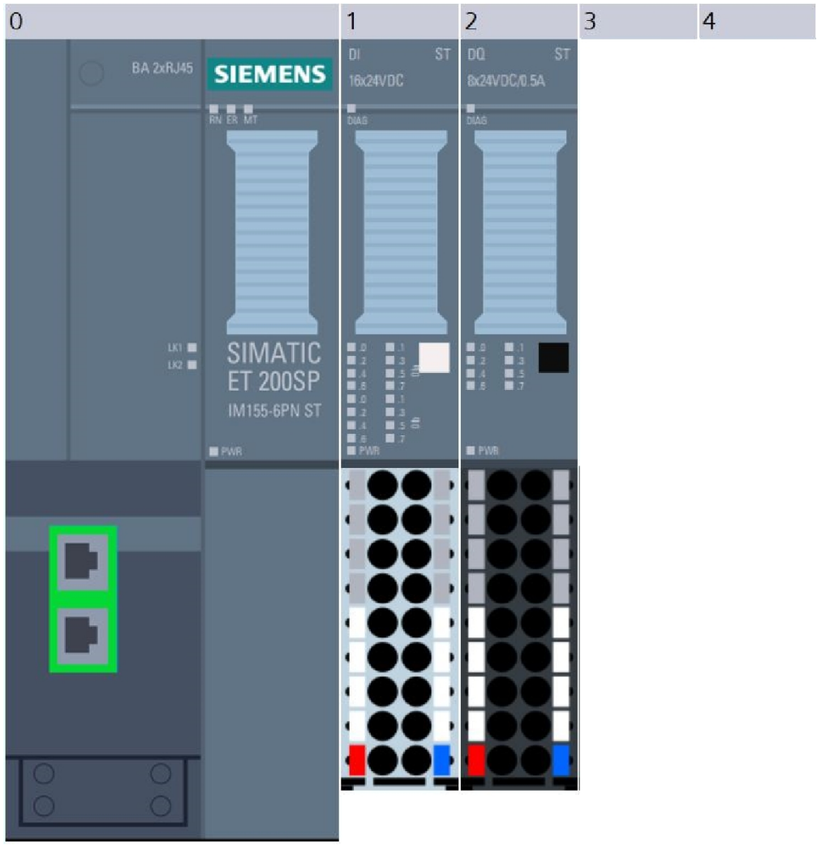

(=) Function aspect
=IO13 I/O system MCC13
(+) Location aspect
+MCC13.3 Motor Control Cabinet

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Page title
+MCC13.3 Motor Control Cabinet
Distributed I/O-systems

Constructor	JHI, USA
DK	Hammermill Room

Revision	Project no.	File: P100034 DanWeb JHI - MCC13 rev.A08 CCH	Next page	Page
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0	1	2	3	4	5	6	7	8	9

+MCC13.3
=IO13-KF1001

SIEMENS

6ES7155-6AA01-0BN0

ET200SP

IM155-6 PN ST

+MCC13.3
=IO13-KF3001

SIEMENS

6ES7131-6BH01-0BA0

Digital Input 16 x DC 24V

H721_FC3072_Flt		1(DI0)	MCC13_QA0001		9(DI8)
Hammermill 0A Thermal Fault			Main Breaker MCC13 Circuit Breaker		
I10.0	*1020.2*		I11.0	*210.4*	
H711_FC3070_Flt		2(DI1)	AC01_FC1001_Flt		10(DI9)
Upper Pulp 0A Thermal Fault			115VAC Power Supply Circuit Breaker		
I10.1	*1021.2*		I11.1	*300.2*	
H712_FC3071_Flt		3(DI2)	AC01_FC1010_Flt		11(DI10)
Lower Pulp 0A Thermal Fault			MCC Ventilation Circuit Breaker		
I10.2	*1023.2*		I11.2	*301.2*	
H731_FC3074_Flt		4(DI3)	AC01_QA1010_Fb		12(DI11)
Fibertransport 0A Thermal Fault			MCC Fan 1..4 Feedback		
I10.3	*1025.2*		I11.3	*301.4*	
H821_FC3082_Flt		5(DI4)	DC01_2LDC_Flt		13(DI12)
Hammermill 0B Thermal Fault			Power Supply 24VDC 2L+IO		
I10.4	*1026.2*		I11.4	*280.8*	
H811_FC3080_Flt		6(DI5)	Dinp_SP02_Disp		14(DI13)
Upper Pulp 0B Thermal Fault			Spare Input		
I10.5	*1027.2*		I11.5		
H812_FC3081_Flt		7(DI6)	Dinp_SP03_Disp		15(DI14)
Lower Pulp 0B Thermal Fault			Spare Input		
I10.6	*1029.2*		I11.6		
H831_FC3084_Flt		8(DI7)	Dinp_SP04_Disp		16(DI15)
Fibertransport 0B Thermal Fault			Spare Input		
I10.7	*1031.2*		I11.7		

+MCC13.3
=IO13-KF3002

SIEMENS

6ES7132-6BD20-0BA0

Digital Output 4x DC24V/2A

AC01_QA1010_Cs		1(DO1)
MCC Fan 1..4 Start		
Q10.0	*301.3*	
Spare		2(DO2)
Spare		
Q10.1		
Spare		3(DO3)
Spare		
Q10.2		
Spare		4(DO4)
Spare		
Q10.3		

5 6 7

EtherNet RJ-45

PROFINET

1L+ 2L+ 1M 2M

P1 P2

1L+ 2L+ 1M 2M

280-18

280.5 1L+1B
280.3 L-1B 280-02

L+ M

=IO13;KF1001 Switch 600.1

280.7 2L+1B 280-24
280.3 L-3B 280-06

(=) Function aspect
=IO13 I/O system MCC13
(+) Location aspect
+MCC13.3 Motor Control Cabinet

Dan-Web®

Page title
+MCC13.3 Motor Control Cabinet
Distributed I/O-systems

Constructor	JHI, USA
DK	Hammermill Room
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Network I/O

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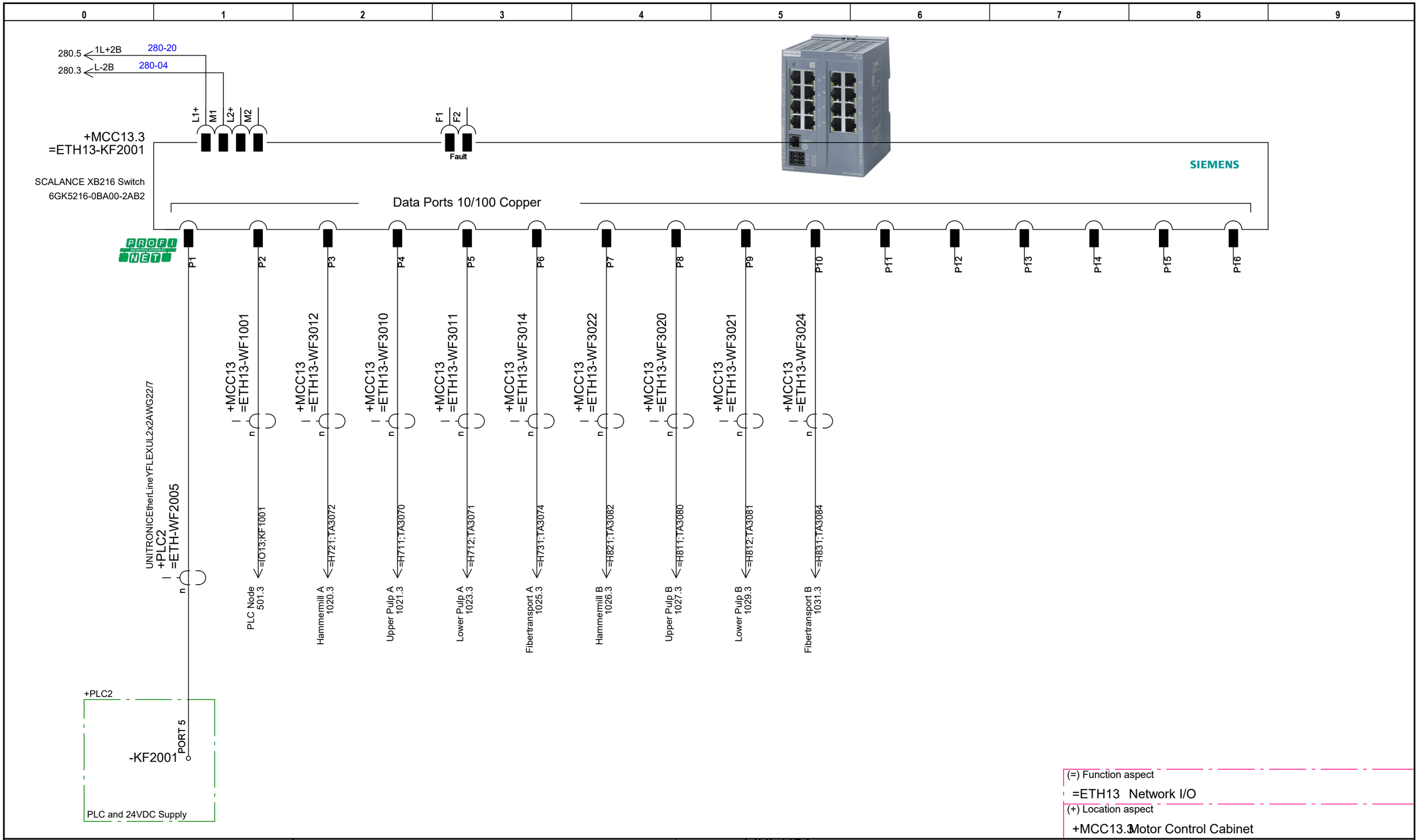

(=) Function aspect
=ETH13 Network I/O
(+) Location aspect
+MCC13.3 Motor Control Cabinet

Dan-Web	Page title **+MCC13.3 Motor Control Cabinet** Profinet network - Switch	Constructor DK	JHI, USA Hammermill Room		
		Revision A01	Project no. P100034	**File: P100034 DanWeb JHI - MCC13 rev.A08 CCH** Last change: 16-06-2021	Next page Motors	Page 600

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Motors

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0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9

300.2 L1 — L1 1021.0
300.2 L2 — L2 1021.0
300.2 L3 — L3 1021.0

280.7 2L+4B — 280-29 — 2L+4B 1021.0

+MCC13.1
=H721-FC3072
.2
3VA6340-6HL31-0AA0
400A

+MCC13.3
=IO13-KF3001
501.4
6ES7131-6BH01-0BA0
H721_FC3072_Flt

Hammermill 0A
Thermal Fault

I10.0
DI

1(DI0)

1020-03

280.7 2L+2B
280.4 L-5B

280-26
280-10

1020-00 1020-01 1020-02

Switch 600.2 =H721;TA3072

Torque
M10 25Nm

L1 L2 L3

P1 P2

Safe Torque Off

Attention : Controlled from Profinet network

+MCC13.1
=H721-TA3072
6SL3210-1PE33-0AL0
.4
G120 132kW W.Filter

SIEMENS

PROFINET

6SL3244-0BB12-1FA0
CU240E-2 PN (ProfiNet)

31	32	34	10	11	26	27	9	28	69	5	6	7	8	16	17
+24V In	GND IN	DI COM2	AI 1+	AI 1-	AO 1+	GND	+24V OUT	GND	DI COM1	DI0	DI1+	DI2	DI3+	DI4	DI5

CTRL MODE
VECTOR
SERVO

OFF / ON — AI0 / AI1 — Voltage / Current

							DO1			DO0			DO2		
+10V	GND	AI 0+	AI 0-	AO0+	GND	NO	C	NC	NO	C	NC	NO	C		
1	2	3	4	12	13	21	22	18	19	20	23	24	25		

Torque
M10 25Nm

U2 V2 W2 T1 T2 R1 R2

14 15

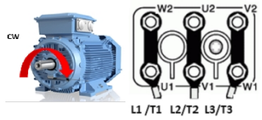
3C 4/0 + 3 x AWG 4
+MCC13.1
=H721-WD3072

1 2 3

+MCC13.1
=H721-MA3072

U1 V1 W1

M
3~



132kW
213A
3x460 VAC
D CW

(=) Function aspect
=H721 Hammermill 0A
(+) Location aspect
+MCC13.1 Motor Control Cabinet

Dan-Web®

Page title
+MCC13.1 Motor Control Cabinet
VFD power circuit

Constructor	JHI, USA
DK	Hammermill Room

Revision	Project no.	File: P100034 DanWeb JHI - MCC13 rev.A08 CCH	Next page	Page
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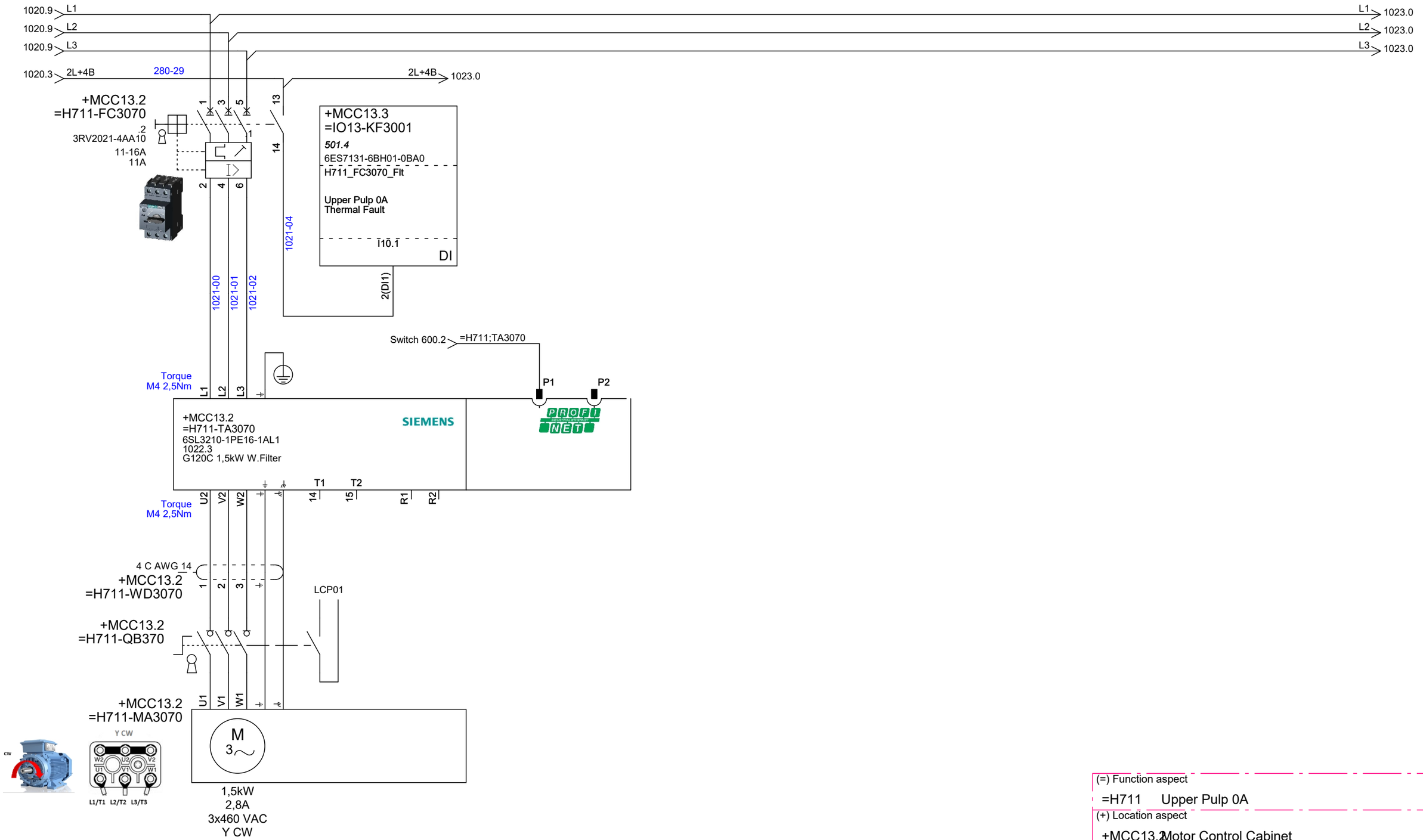

(=) Function aspect
=H711 Upper Pulp 0A
(+) Location aspect
+MCC13.2 Motor Control Cabinet

Dan-Web®

Page title	**+MCC13.2 Motor Control Cabinet**	Constructor	JHI, USA			
	VFD power circuit	DK	Hammermill Room			
		Revision	Project no.	**File: P100034 DanWeb JHI - MCC13 rev.A08 CCH**	Next page	Page
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0	1	2	3	4	5	6	7	8	9

280.7 2L+3T
280.3 L-3T

2L+3T 1024.0
L-3T 1024.0

280-27
280-05

Safe Torque Off

Attention : Controlled from Profinet network

31	32	51	52	53	54	50	12	26	27	1	2	3	4	10	11	13	14	15	16	17	69
+24V IN	GND IN	DI24 DO24	DI25 DO25	DI26 DO26	DI27 DO27	GND	AO 0	AO 1	GND	+10V	GND	AI0+	AI0-	AI1+	AI1-	GND	T1	T2	DI 4	DI5	DI COM1

+MCC13.2
=H711-TA3070
6SL3246-0BA22-1FA0
CU250S-2 DP (ProfiNet)
1021.1
1021.4
.7

CTRL MODE
VECTOR
SERVO

AI0 AI1
OFF ON
Voltage
Current

5	6	64	7	8	65	66	67	9	28	40	41	42	43	44	21	22	18	19	20	23	24	25
DI 0	DI 1+	DI 1-	DI 2	DI 3+	DI 3-	DI 5-	DI 6	+24V OUT	GND	DI COM3	DI16	DI17	DI18	DI19	NO	C	NC	NO	C	NC	DO2 NO	C

HTL encoder (Resolver)

33	79	70	71	72	73	74	75	76	77
ENC+	GND	AP (S2)	AN (S4)	BP (S1)	BN (S3)	ZP	ZN	(R1)	(R2)

SERVOLKSMSFX8PLUS-1BD31/3X2X0,14+2X0,5
+MCC13.2
=H711-WG9070

RD'	BK'	GN	YE	BN	BK	OG	RD			
D	F	A	H	B	J	C	K	G	E	

+V	0V	A	A'	B	B'	Z	Z'	⏚	⏚

+MCC13.2
=H711-BS9070
HS35

C
Incremental Encoder

(=) Function aspect
=H711 Upper Pulp 0A
(+) Location aspect
+MCC13.2 Motor Control Cabinet

Dan-Web®	Page title: **+MCC13.2 Motor Control Cabinet** VFD power circuit	Constructor: DK	JHI, USA Hammermill Room		
		Revision: A01	Project no.: P100034	**File: P100034 DanWeb JHI - MCC13 rev.A08 CCH** Last change: 28-01-2021	Next page: 1023 / Page: 1022

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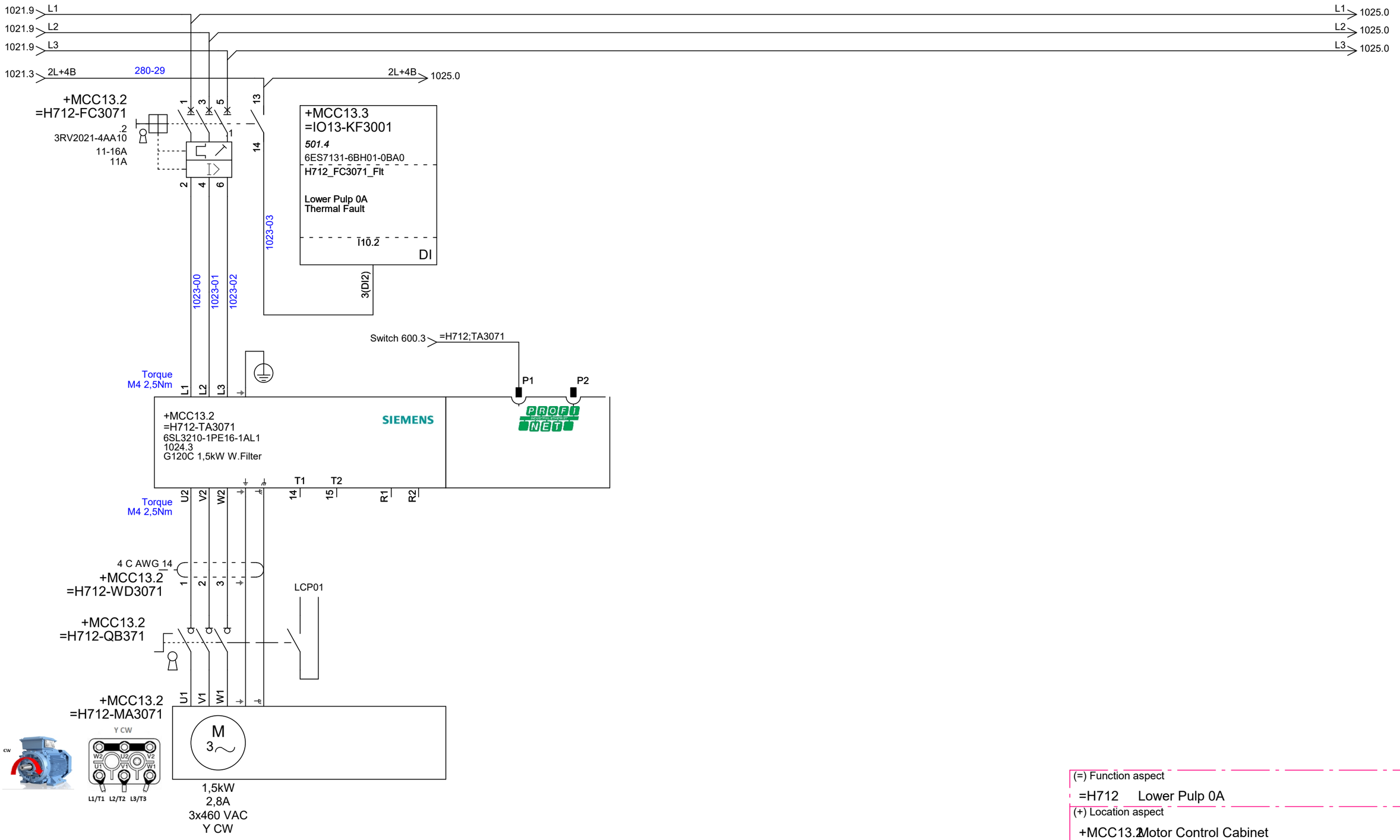

(=) Function aspect
=H712 Lower Pulp 0A
(+) Location aspect
+MCC13.2 Motor Control Cabinet

Dan-Web®

Page title: **+MCC13.2 Motor Control Cabinet** VFD power circuit	Constructor: DK	JHI, USA Hammermill Room			
	Revision: A01	Project no.: P100034	**File: P100034 DanWeb JHI - MCC13 rev.A08 CCH** Last change: 09-12-2020	Next page: 1024	Page: 1023

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0	1	2	3	4	5	6	7	8	9

1022.9 2L+3T
1022.9 L-3T

2L+3T 1028.0
L-3T 1028.0

280-27
280-05

Safe Torque Off

Attention : Controlled from Profinet network

31	32	51	52	53	54	50	12	26	27	1	2	3	4	10	11	13	14	15	16	17	69
+24V IN	GND IN	DI24 DO24	DI25 DO25	DI26 DO26	DI27 DO27	GND	AO 0	AO 1	GND	+10V	GND	AI0+	AI0-	AI1+	AI1-	GND	T1	T2	DI 4	DI5	DI COM1

+MCC13.2
=H712-TA3071
6SL3246-0BA22-1FA0
CU250S-2 DP (ProfiNet)
1023.1
1023.4
.7

CTRL MODE
VECTOR
SERVO

OFF ON AI0 AI1 Voltage Current

5	6	64	7	8	65	66	67	9	28	40	41	42	43	44	21	22	18	19	20	23	24	25
DI 0	DI 1+	DI 1-	DI 2	DI 3+	DI 3-	DI 5-	DI 6	+24V OUT	GND	DI COM3	DI16	DI17	DI18	DI19	NO	C	NC	NO	C	NC	DO2 NO	C

HTL encoder (Resolver)

33	79	70	71	72	73	74	75	76	77
ENC+	GND	AP (S2)	AN (S4)	BP (S1)	BN (S3)	ZP	ZN	(R1)	(R2)

SERVOLKSMSFX8PLUS-1BD31/3X2X0,14+2X0,5
+MCC13.2
=H712-WG9071

RD'	BK'	GN	YE	BN	BK	OG	RD			
D	F	A	H	B	J	C	K	G	E	

+V	0V	A	A'	B	B'	Z	Z'	⏚	⏚

+MCC13.2
=H712-BS9071
HS35

C
Incremental Encoder

(=) Function aspect
=H712 Lower Pulp 0A
(+) Location aspect
+MCC13.2 Motor Control Cabinet

Dan-Web®

Page title
+MCC13.2 Motor Control Cabinet
VFD power circuit

Constructor	JHI, USA
DK	Hammermill Room

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0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9

1023.9 L1
1023.9 L2
1023.9 L3
1023.3 2L+4B 280-29

L1 > 1026.0
L2 > 1026.0
L3 > 1026.0
2L+4B > 1026.0

280.7 2L+4T
280.3 L-4T

2L+4T > 1026.4
L-4T > 1026.4

+MCC13.2
=H731-FC3074
.1
3RV2041-4MA10
80-100A
80A

1 3 5 13 14
2 4 6

+MCC13.3
=IO13-KF3001
501.4
6ES7131-6BH01-0BA0
H731_FC3074_Flt

Fibertransport 0A
Thermal Fault

I10.3
DI

4(DI3)

1025-03
1025-00 1025-01 1025-02
280-28 280-07

Switch 600.3 =H731;TA3074

Torque
M8 25Nm

L1 L2 L3

P1 P2

+MCC13.2
=H731-TA3074
6SL3210-1KE28-4AF1
.4
G120C 45kW W.Filter

SIEMENS

PROFINET

1 +10V | 2 GND | 3 AI0+ | 4 AI0- | 5 DI0 | 6 DI1 | 7 DI2 | 8 DI3 | 9 +24V | 16 DI4 | 17 DI5 | 28 GND | 34 DI COM2 | 69 DI COM1 | 31 +24V IN | 32 GND IN

STO

AI0
OFF ☐ VOLTAGE
ON ☐ CURRENT

U2 V2 W2 T1 T2 R1 R2
14 15

DO1+ 21 | DO1- 22 | AO0+ 12 | GND 13

Torque
M8 25Nm

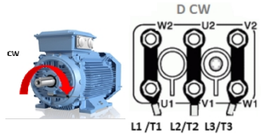
4 C AWG 4
1 2 3

+MCC13.2
=H731-WD3074

U1 V1 W1

+MCC13.2
=H731-MA3074

M
3~



45kW
65,1A
3x460 VAC
D CW

(=) Function aspect
=H731 Fibertransport 0A
(+) Location aspect
+MCC13.2 Motor Control Cabinet

Dan-Web®

Page title
+MCC13.2 Motor Control Cabinet
VFD power circuit

Constructor	JHI, USA
DK	Hammermill Room
Revision A01	Project no. P100034
File: P100034 DanWeb JHI - MCC13 rev.A08 CCH	
Last change: 09-12-2020	
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0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9

1025.9 L1 — L1 1027.0
1025.9 L2 — L2 1027.0
1025.9 L3 — L3 1027.0
1025.3 2L+4B — 280-29 — 2L+4B 1027.0
1025.9 2L+4T — 2L+4T 1031.6
1025.9 L-4T — L-4T 1031.6

+MCC13.2
=H821-FC3082
.2
3VA6340-6HL31-0AA0
400A

+MCC13.3
=IO13-KF3001
501.4
6ES7131-6BH01-0BA0
H821_FC3082_Flt
Hammermill 0B
Thermal Fault
I10.4
DI

1026-03
5(DI4)
1026-00
1026-01
1026-02
280-28
280-07

Switch 600.4 =H821;TA3082

Torque
M10 25Nm

+MCC13.2
=H821-TA3082
6SL3210-1PE33-0AL0
.4
G120 132kW W.Filter

SIEMENS

PROFINET

6SL3244-0BB12-1FA0
CU240E-2 PN (ProfiNet)

Safe Torque Off

Attention : Controlled from Profinet network

31	32	34	10	11	26	27	9	28	69	5	6	7	8	16	17
+24V In	GND IN	DI COM2	AI 1+	AI 1-	AO 1+	GND	+24V OUT	GND	DI COM1	DI0	DI1+	DI2	DI3+	DI4	DI5

CTRL MODE: VECTOR / SERVO

OFF / ON — AI0 / AI1: Voltage / Current

1	2	3	4	12	13	21	22	18	19	20	23	24	25
+10V	GND	AI 0+	AI 0-	AO0+	GND	NO	C	NC	NO	C	NC	NO	C
						DO1			DO0			DO2	

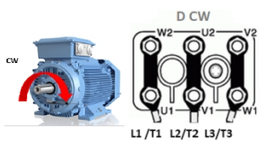
U2	V2	W2	T1	T2	R1	R2
14	15					

Torque
M10 25Nm

3C 4/0 + 3 x AWG 4
+MCC13.2
=H821-WD3082

1	2	3
U1	V1	W1

+MCC13.2
=H821-MA3082



M
3~

132kW
213A
3x460 VAC
D CW

(=) Function aspect
=H821 Hammermill 0B
(+) Location aspect
+MCC13.2 Motor Control Cabinet

Dan-Web®

Page title
+MCC13.2 Motor Control Cabinet
VFD power circuit

Constructor	JHI, USA
DK	Hammermill Room
Revision A01	Project no. P100034 — **File: P100034 DanWeb JHI - MCC13 rev.A08 CCH** — Last change: 09-12-2020
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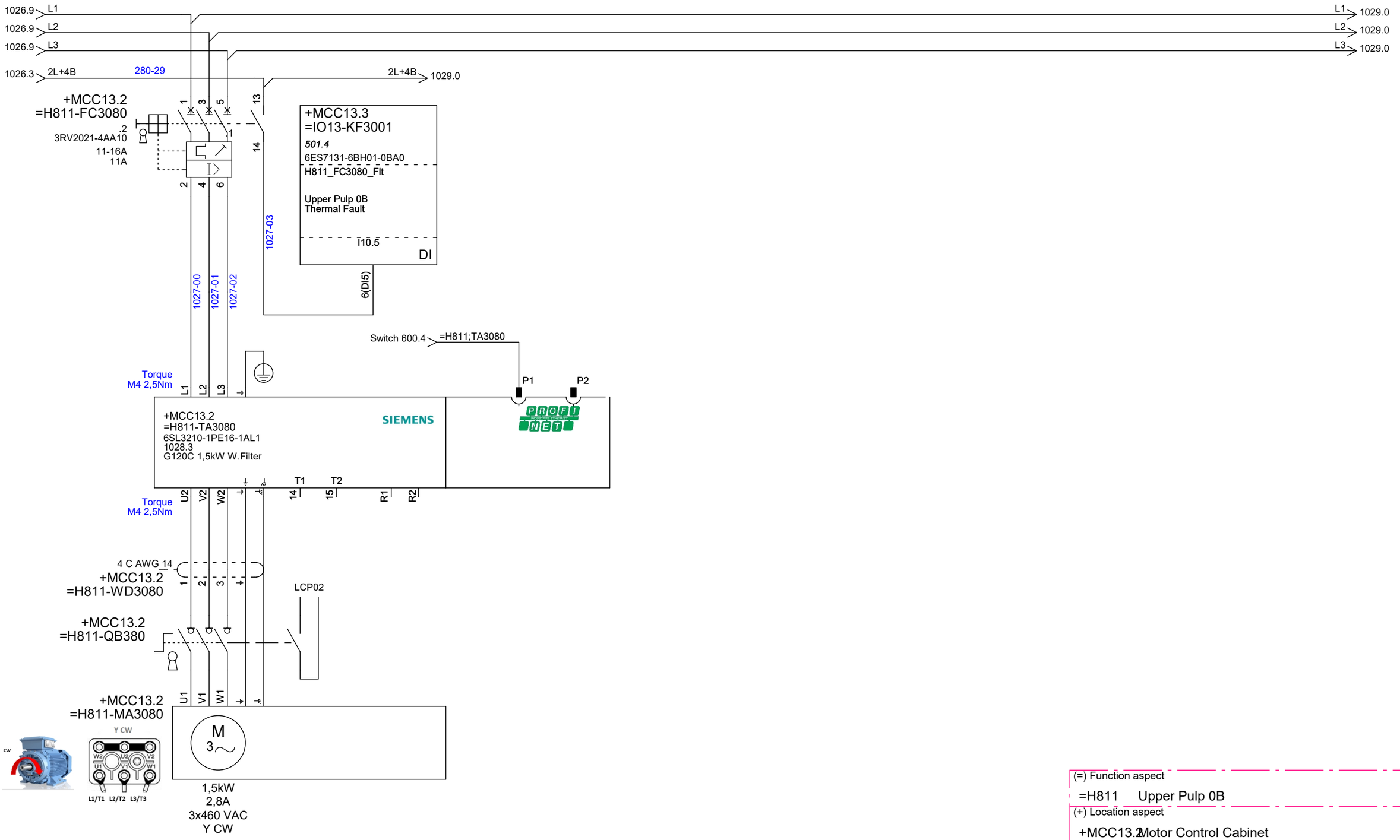

(=) Function aspect
=H811 Upper Pulp 0B
(+) Location aspect
+MCC13.2 Motor Control Cabinet

Dan-Web®

Page title: **+MCC13.2 Motor Control Cabinet** VFD power circuit	Constructor: DK	JHI, USA Hammermill Room			
	Revision: A01	Project no.: P100034	**File: P100034 DanWeb JHI - MCC13 rev.A08 CCH** Last change: 09-12-2020	Next page: 1028	Page: 1027

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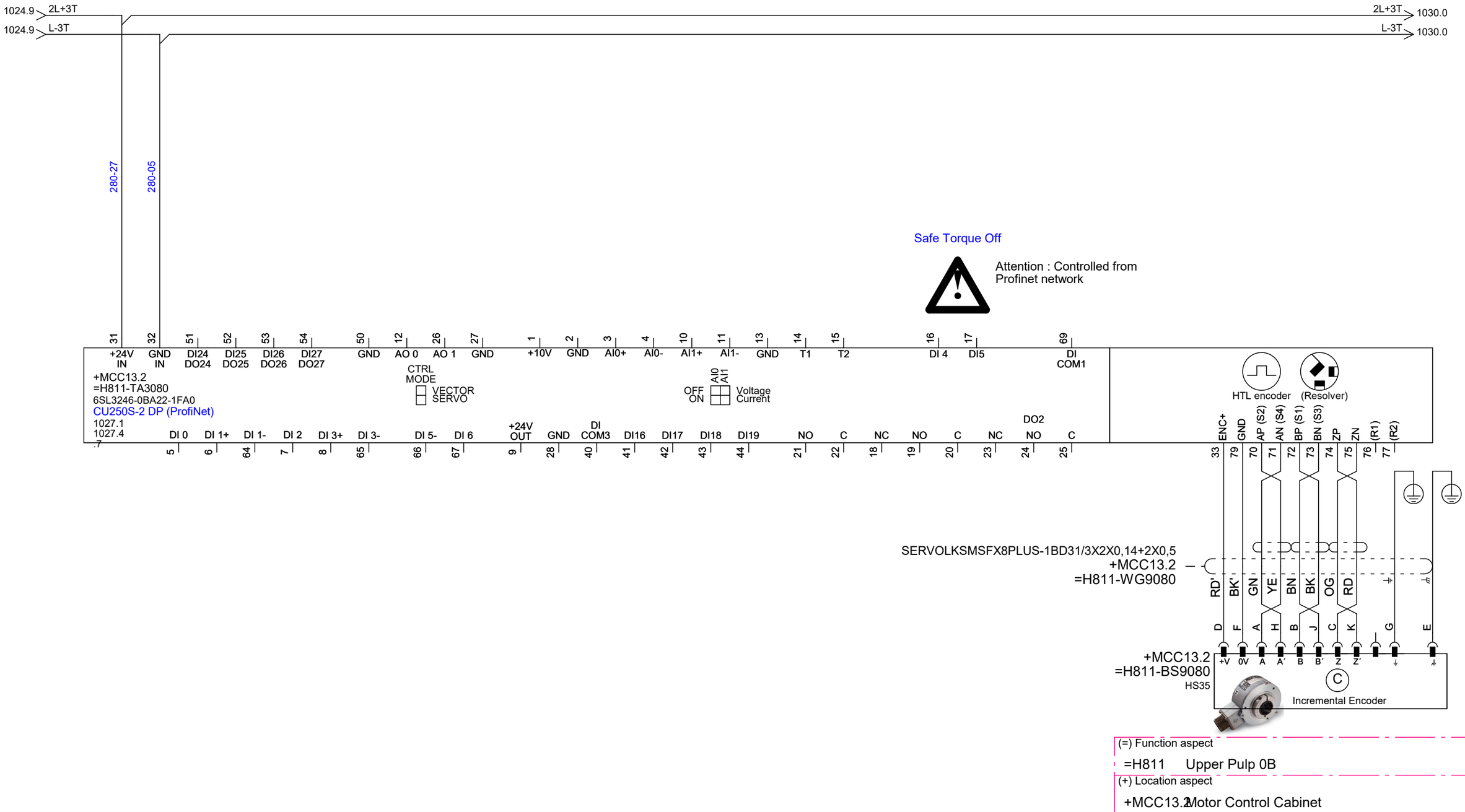
0	1	2	3	4	5	6	7	8	9



(=) Function aspect
=H811 Upper Pulp 0B
(+) Location aspect
+MCC13.2 Motor Control Cabinet

Dan-Web®

Page title
+MCC13.2 Motor Control Cabinet
VFD power circuit

Constructor	JHI, USA
DK	Hammermill Room
Revision A01	Project no. P100034 — **File: P100034 DanWeb JHI - MCC13 rev.A08 CCH** — Last change: 28-01-2021
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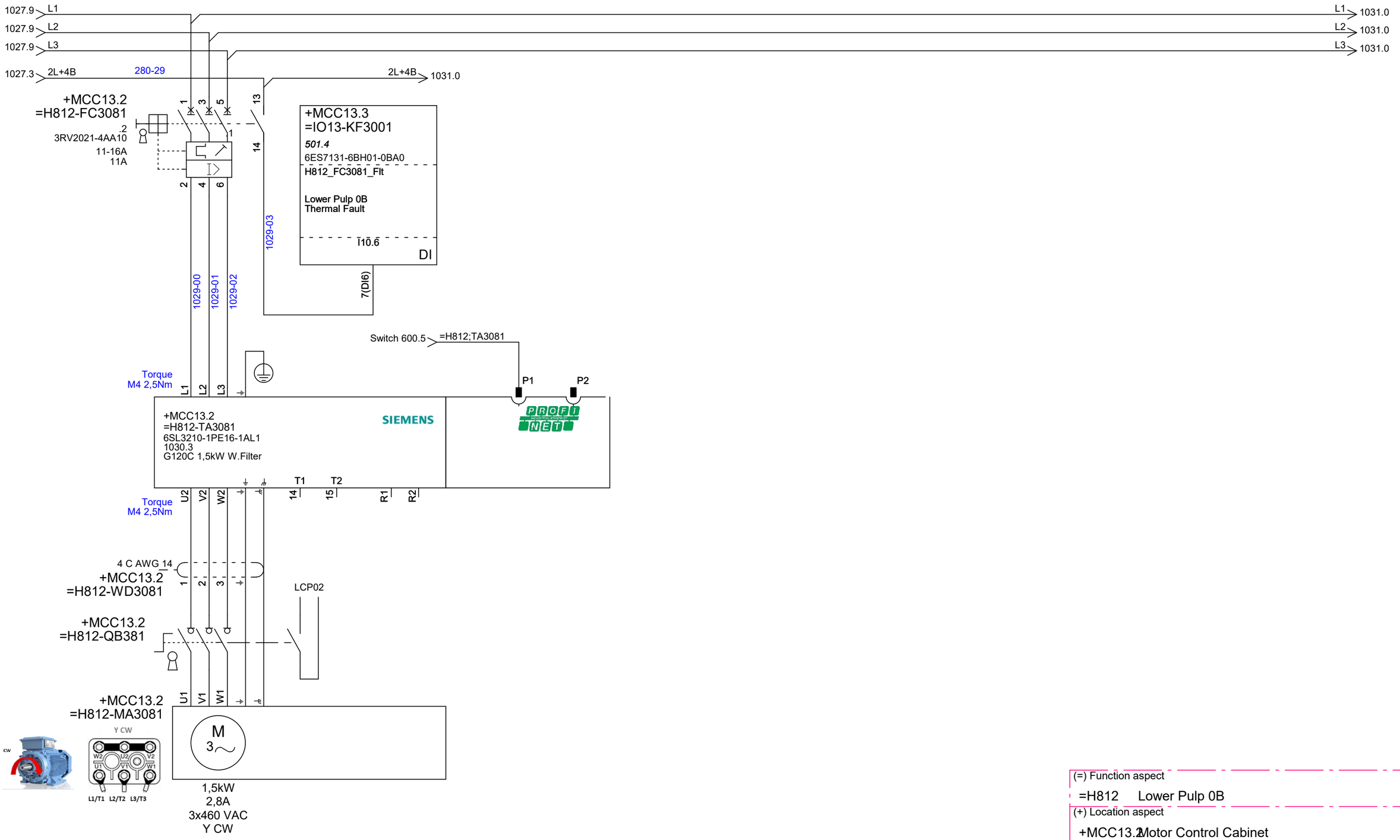
0	1	2	3	4	5	6	7	8	9



(=) Function aspect
=H812 Lower Pulp 0B
(+) Location aspect
+MCC13.2 Motor Control Cabinet

Dan-Web®

Page title: **+MCC13.2 Motor Control Cabinet** VFD power circuit	Constructor: DK	JHI, USA Hammermill Room			
	Revision: A01	Project no.: P100034	**File: P100034 DanWeb JHI - MCC13 rev.A08 CCH** Last change: 09-12-2020	Next page: 1030	Page: 1029

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0	1	2	3	4	5	6	7	8	9

1028.9 2L+3T
1028.9 L-3T

280-27
280-05

Safe Torque Off

Attention : Controlled from Profinet network

31	32	51	52	53	54	50	12	26	27	1	2	3	4	10	11	13	14	15	16	17	69
+24V IN	GND IN	DI24 DO24	DI25 DO25	DI26 DO26	DI27 DO27	GND	AO 0	AO 1	GND	+10V	GND	AI0+	AI0-	AI1+	AI1-	GND	T1	T2	DI 4	DI5	DI COM1

+MCC13.2
=H812-TA3081
6SL3246-0BA22-1FA0
CU250S-2 DP (ProfiNet)
1029.1
1029.4
.7

CTRL MODE
VECTOR
SERVO

AI0 AI1
OFF ON
Voltage
Current

5	6	64	7	8	65	66	67	9	28	40	41	42	43	44	21	22	18	19	20	23	24	25
DI 0	DI 1+	DI 1-	DI 2	DI 3+	DI 3-	DI 5-	DI 6	+24V OUT	GND	DI COM3	DI16	DI17	DI18	DI19	NO	C	NC	NO	C	NC	DO2 NO	C

HTL encoder (Resolver)

33	79	70	71	72	73	74	75	76	77
ENC+	GND	AP (S2)	AN (S4)	BP (S1)	BN (S3)	ZP	ZN	(R1)	(R2)

SERVOLKSMSFX8PLUS-1BD31/3X2X0,14+2X0,5
+MCC13.2
=H812-WG9081

RD'	BK'	GN	YE	BN	BK	OG	RD		
D	F	A	H	B	J	C	K	G	E

+V	0V	A	A'	B	B'	Z	Z'	⏚	⏚

+MCC13.2
=H812-BS9081
HS35

C
Incremental Encoder

(=) Function aspect
=H812 Lower Pulp 0B
(+) Location aspect
+MCC13.2 Motor Control Cabinet

Dan-Web®

Page title
+MCC13.2 Motor Control Cabinet
VFD power circuit

Constructor	JHI, USA
DK	Hammermill Room

Revision	Project no.	File: P100034 DanWeb JHI - MCC13 rev.A08 CCH	Next page	Page
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0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9

1029.9 L1
1029.9 L2
1029.9 L3
1029.3 2L+4B 280-29

+MCC13.2
=H231-FC3084
.1
3RV2041-4MA10
80-100A
80A

1 3 5 13
14
2 4 6

+MCC13.3
=IO13-KF3001
501.4
6ES7131-6BH01-0BA0
H831_FC3084_Flt

Fibertransport 0B
Thermal Fault

I10.7
DI
8(DI7)

1031-03
1031-00 1031-01 1031-02

Switch 600.5 =H831;TA3084

Torque
M8 25Nm

L1 L2 L3

P1 P2

+MCC13.2
=H231-TA3084
6SL3210-1KE28-4AF1
.4
G120C 45kW W.Filter

SIEMENS

PROFINET

1026.9 2L+4T
1026.9 L-4T

280-28
280-07

1 +10V | 2 GND | 3 AI0+ | 4 AI0- | 5 DI0 | 6 DI1 | 7 DI2 | 8 DI3 | 9 +24V | 16 DI4 | 17 DI5 | 28 GND | 34 DI COM2 | 69 DI COM1 | 31 +24V IN | 32 GND IN

STO

AI0
OFF ☐ VOLTAGE
ON ☐ CURRENT

.1

T1 14 | T2 15 | R1 | R2

DO1+ 21 | DO1- 22 | AO0+ 12 | GND 13

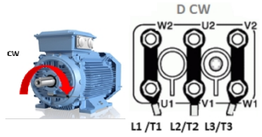
Torque
M8 25Nm

U2 V2 W2 T1 T2 R1 R2

4 C AWG 4
+MCC13.2
=H231-WD3084
1 2 3

+MCC13.2
=H831-MA3084
U1 V1 W1

M
3~



45kW
65,1A
3x460 VAC
D CW

(=) Function aspect
=H831 Fibertransport 0B
(+) Location aspect
+MCC13.2 Motor Control Cabinet

Dan-Web®

Page title
+MCC13.2 Motor Control Cabinet
VFD power circuit

Constructor	DK	JHI, USA Hammermill Room			
Revision	A01	Project no. P100034	**File: P100034 DanWeb JHI - MCC13 rev.A08 CCH** Last change: 09-12-2020	Next page	Compon
				Page	1031

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Componentlist

Component list

Pos.	Component Page/path	Type Description	Make
1	**+MCC13.1=AUX01-EA2001** =DC02/290.3	TIC14415 LED Luminaire 24VDC w. movement sensor, 3M. cable 1 pcs pr p	**TIC**
2	**+MCC13.1=AUX01-MA1011** =AUX01/301.1	3140110 Fan 725m³/h 115VAC	**Rittal**
3	**+MCC13.1=H721-FC3072** =H721/1020.1	9342280 Connection adaptors max. 800A – SV 9342.280	**Rittal**
4	**+MCC13.1=H721-FC3072** =H721/1020.1	3VA6340-6HL31-0AA0 CIRCUIT BREAKER 3VA6 UL FRAME 400 BREAKING CAPACITY CLASS M	**Siemens**
5	**+MCC13.1=H721-FC3072** =H721/1020.2	3VA9978-0AA12 AUX.SWITCH FOR: 3VA4/6/6	**Siemens**
6	**+MCC13.1=H721-FC3072** =H721/1020.1	3VA9487-0FK21 Door mounted rotary operator std. IP65 w.door interlock acce	**Siemens**
7	**+MCC13.1=H721-FC3072 (2)** =H721/1020.1	3VA9603-0QB00 FRONT BUS CONNECTORS 3 PCS. ACCESSORY FOR: 3VA2 1000	**Siemens**
8	**+MCC13.1=H721-TA3072** =H721/1020.4	6SL3244-0BB12-1FA0 SINAMICS G120 CONTROL UNIT CU240E-2 PN E	**Siemens**
9	**+MCC13.1=H721-TA3072** =H721/1020.1	6SL3210-1PE33-0AL0 SINAMICS G120 3AC380-480V 132KW PM240 CL.A FILTER	**Siemens**
10	**+MCC13.1=MCC13-QA0001** =MCC13/210.1	9342320 Connection adap.1600A PLS 800A/1600A	**Rittal**
11	**+MCC13.1=MCC13-QA0001** =MCC13/210.1	3VA6610-5HL32-0AA0 CIRCUIT BREAKER 3VA6 UL FRAME 1000 BREAK.CAP. CL.M ICU=35KA	**Siemens**
12	**+MCC13.1=MCC13-QA0001** =MCC13/210.1	3VA9988-0AA11 AUX.SWITCH FOR: 3VA2 800/1000	**Siemens**
13	**+MCC13.1=MCC13-QA0001** =MCC13/210.1	3VA9978-0AA11 AUX.SWITCH FOR: 3VA4/6/6	**Siemens**
14	**+MCC13.1=MCC13-QA0001** =MCC13/210.1	3VA9677-0FK21 Door mounted rotary operator std. IP65 w.door interlock acce	**Siemens**
15	**+MCC13.1=MCC13-QA0001** =MCC13/210.1	3VA9673-0QC00 FRONT BUS CONNECTORS 3 PCS. ACCESSORY FOR: 3VA6 1000	**Siemens**
16	**+MCC13.2=AC01-FC1001** =AC01/300.1	9340340 OM adaptors with connection cables, 25A, 690V	**Rittal**
17	**+MCC13.2=AC01-FC1001** =AC01/300.1	3RV2711-1ED10 CIRCUIT-BREAKER SZ S00, FOR PLANT PROTEC A-RELEASE 4 A, N-RE	**Siemens**
18	**+MCC13.2=AC01-FC1001** =AC01/300.1	3RV2901-1E TRANSVERSE AUX. SWITCH, 1NO+1NC, CIRCUIT-BREAKERS, SZ S00/S0	**Siemens**
19	**+MCC13.2=AUX01-EA2002** =DC02/290.5	TIC14415 LED Luminaire 24VDC w. movement sensor, 3M. cable 1 pcs pr p	**TIC**
20	**+MCC13.2=AUX01-MA1012** =AUX01/301.2	3140110 Fan 725m³/h 115VAC	**Rittal**
21	**+MCC13.2=AUX01-MA1013** =AUX01/301.4	3140110 Fan 725m³/h 115VAC	**Rittal**
22	**+MCC13.2=H231-FC3084** =H831/1031.1	9342410 Circuit-breaker component adaptors 3-pole 100Amp	**Rittal**
23	**+MCC13.2=H231-FC3084** =H831/1031.1	3RV2901-1E TRANSVERSE AUX. SWITCH, 1NO+1NC, CIRCUIT-BREAKERS, SZ S00/S0	**Siemens**
24	**+MCC13.2=H231-FC3084** =H831/1031.1	3RT2946-4GA07 TERMINAL BLOCK	**Siemens**
25	**+MCC13.2=H231-FC3084** =H831/1031.1	3RV2041-4MA10 Circuit breaker size S2 for motor protection, CLASS 10 A-rel	**Siemens**

Component list

Pos.	Component Page/path	Type Description	Make
26	**+MCC13.2=H231-TA3084** =H831/1031.4	6SL3210-1KE28-4AF1 SINAMICS G120C 45KW W. FILTER, PN	**Siemens**
27	**+MCC13.2=H711-FC3070** =H711/1021.1	3RV1928-1H TERMINAL BLOCK TYPE E, ENHANCED AIR AND CREEPAGE DISTANCE, S	**Siemens**
28	**+MCC13.2=H711-FC3070** =H711/1021.1	9340340 OM adaptors with connection cables, 25A, 690V	**Rittal**
29	**+MCC13.2=H711-FC3070** =H711/1021.2	3RV2901-1E TRANSVERSE AUX. SWITCH, 1NO+1NC, CIRCUIT-BREAKERS, SZ S00/S0	**Siemens**
30	**+MCC13.2=H711-FC3070** =H711/1021.1	3RV2021-4AA10 CIRCUIT-BREAKER SZ S0, FOR MOTOR PROTECTION, CLASS 10, A-REL	**Siemens**
31	**+MCC13.2=H711-TA3070** =H711/1021.1	6SL3255-0AA00-4CA1 SINAMICS G120 BASIC OPERATOR PANEL (BOP-2)	**Siemens**
32	**+MCC13.2=H711-TA3070** =H711/1022.3	6SL3246-0BA22-1FA0 SINAMICS G120 CONTROL UNIT CU250S-2 PN	**Siemens**
33	**+MCC13.2=H711-TA3070** =H711/1021.1	6SL3210-1PE16-1AL1 SINAMICS G120 3AC380-480V 1,5KW/2,2KW PM240-2 CL. A FILTER	**Siemens**
34	**+MCC13.2=H712-FC3071** =H712/1023.1	3RV1928-1H TERMINAL BLOCK TYPE E, ENHANCED AIR AND CREEPAGE DISTANCE, S	**Siemens**
35	**+MCC13.2=H712-FC3071** =H712/1023.1	9340340 OM adaptors with connection cables, 25A, 690V	**Rittal**
36	**+MCC13.2=H712-FC3071** =H712/1023.2	3RV2901-1E TRANSVERSE AUX. SWITCH, 1NO+1NC, CIRCUIT-BREAKERS, SZ S00/S0	**Siemens**
37	**+MCC13.2=H712-FC3071** =H712/1023.1	3RV2021-4AA10 CIRCUIT-BREAKER SZ S0, FOR MOTOR PROTECTION, CLASS 10, A-REL	**Siemens**
38	**+MCC13.2=H712-TA3071** =H712/1023.1	6SL3255-0AA00-4CA1 SINAMICS G120 BASIC OPERATOR PANEL (BOP-2)	**Siemens**
39	**+MCC13.2=H712-TA3071** =H712/1024.3	6SL3246-0BA22-1FA0 SINAMICS G120 CONTROL UNIT CU250S-2 PN	**Siemens**
40	**+MCC13.2=H712-TA3071** =H712/1023.1	6SL3210-1PE16-1AL1 SINAMICS G120 3AC380-480V 1,5KW/2,2KW PM240-2 CL. A FILTER	**Siemens**
41	**+MCC13.2=H731-FC3074** =H731/1025.1	9342410 Circuit-breaker component adaptors 3-pole 100Amp	**Rittal**
42	**+MCC13.2=H731-FC3074** =H731/1025.1	3RV2901-1E TRANSVERSE AUX. SWITCH, 1NO+1NC, CIRCUIT-BREAKERS, SZ S00/S0	**Siemens**
43	**+MCC13.2=H731-FC3074** =H731/1025.1	3RT2946-4GA07 TERMINAL BLOCK	**Siemens**
44	**+MCC13.2=H731-FC3074** =H731/1025.1	3RV2041-4MA10 Circuit breaker size S2 for motor protection, CLASS 10 A-rel	**Siemens**
45	**+MCC13.2=H731-TA3074** =H731/1025.1	6SL3210-1KE31-4AF1 SINAMICS G120C 75KW W. FILTER, PN	**Siemens**
46	**+MCC13.2=H811-FC3080** =H811/1027.1	3RV1928-1H TERMINAL BLOCK TYPE E, ENHANCED AIR AND CREEPAGE DISTANCE, S	**Siemens**
47	**+MCC13.2=H811-FC3080** =H811/1027.1	9340340 OM adaptors with connection cables, 25A, 690V	**Rittal**
48	**+MCC13.2=H811-FC3080** =H811/1027.2	3RV2901-1E TRANSVERSE AUX. SWITCH, 1NO+1NC, CIRCUIT-BREAKERS, SZ S00/S0	**Siemens**
49	**+MCC13.2=H811-FC3080** =H811/1027.1	3RV2021-4AA10 CIRCUIT-BREAKER SZ S0, FOR MOTOR PROTECTION, CLASS 10, A-REL	**Siemens**
50	**+MCC13.2=H811-TA3080** =H811/1028.3	6SL3246-0BA22-1FA0 SINAMICS G120 CONTROL UNIT CU250S-2 PN	**Siemens**

Component list

Pos.	Component Page/path	Type Description	Make
51	**+MCC13.2=H811-TA3080** =H811/1027.1	6SL3210-1PE16-1AL1 SINAMICS G120 3AC380-480V 1,5KW/2,2KW PM240-2 CL. A FILTER	**Siemens**
52	**+MCC13.2=H812-FC3081** =H812/1029.1	3RV1928-1H TERMINAL BLOCK TYPE E, ENHANCED AIR AND CREEPAGE DISTANCE, S	**Siemens**
53	**+MCC13.2=H812-FC3081** =H812/1029.1	9340340 OM adaptors with connection cables, 25A, 690V	**Rittal**
54	**+MCC13.2=H812-FC3081** =H812/1029.2	3RV2901-1E TRANSVERSE AUX. SWITCH, 1NO+1NC, CIRCUIT-BREAKERS, SZ S00/S0	**Siemens**
55	**+MCC13.2=H812-FC3081** =H812/1029.1	3RV2021-4AA10 CIRCUIT-BREAKER SZ S0, FOR MOTOR PROTECTION, CLASS 10, A-REL	**Siemens**
56	**+MCC13.2=H812-TA3081** =H812/1029.1	6SL3255-0AA00-4CA1 SINAMICS G120 BASIC OPERATOR PANEL (BOP-2)	**Siemens**
57	**+MCC13.2=H812-TA3081** =H812/1030.3	6SL3246-0BA22-1FA0 SINAMICS G120 CONTROL UNIT CU250S-2 PN	**Siemens**
58	**+MCC13.2=H812-TA3081** =H812/1029.1	6SL3210-1PE16-1AL1 SINAMICS G120 3AC380-480V 1,5KW/2,2KW PM240-2 CL. A FILTER	**Siemens**
59	**+MCC13.2=H821-FC3082** =H821/1026.1	9342280 Connection adaptors max. 800A – SV 9342.280	**Rittal**
60	**+MCC13.2=H821-FC3082** =H821/1026.1	3VA6340-6HL31-0AA0 CIRCUIT BREAKER 3VA6 UL FRAME 400 BREAKING CAPACITY CLASS M	**Siemens**
61	**+MCC13.2=H821-FC3082** =H821/1026.2	3VA9978-0AA12 AUX.SWITCH FOR: 3VA4/6/6	**Siemens**
62	**+MCC13.2=H821-FC3082** =H821/1026.1	3VA9487-0FK21 Door mounted rotary operator std. IP65 w.door interlock acce	**Siemens**
63	**+MCC13.2=H821-FC3082 (2)** =H821/1026.1	3VA9603-0QB00 FRONT BUS CONNECTORS 3 PCS. ACCESSORY FOR: 3VA2 1000	**Siemens**
64	**+MCC13.2=H821-TA3082** =H821/1026.4	6SL3244-0BB12-1FA0 SINAMICS G120 CONTROL UNIT CU240E-2 PN E	**Siemens**
65	**+MCC13.2=H821-TA3082** =H821/1026.1	6SL3210-1PE33-0AL0 SINAMICS G120 3AC380-480V 132KW PM240 CL.A FILTER	**Siemens**
66	**+MCC13.3=AC01-TA1001** =AC01/300.1	4AM5742-8DD40-0FA0 TRANSFORMER SITAS; PHASES:1; PN/PN(S6)(kVA):1 /5;	**Siemens**
67	**+MCC13.3=AUX01-EA2003** =DC02/290.6	TIC14415 LED Luminaire 24VDC w. movement sensor, 3M. cable 1 pcs pr p	**TIC**
68	**+MCC13.3=AUX01-FC1001** =AUX01/301.1	5ST3010 AUXILIARY SWITCH MOUNT. 1S+1OE, F. LS-SWITCH T=70MM	**Siemens**
69	**+MCC13.3=AUX01-FC1001** =AUX01/301.1	5SY6106-7 CIRCUIT BREAKER 230/400V 6KA, 1-POLE, C, 6A, D=70MM	**Siemens**
70	**+MCC13.3=AUX01-QA1001** =AUX01/301.3	3RT2015-1BB41 CONTACTOR AC-3 3KW/400V 1NO DC24V 3P SZ S00 SCREW TERMINAL	**Siemens**
71	**+MCC13.3=AUX01-QA1001** =AUX01/301.3	3RT2916-1EH00 Surge Arrestor 400VAC	**Siemens**
72	**+MCC13.3=AUX01-X51 (6)** =AUX01/301.4	PT2,5 Terminal spring	**Phoenix Contact**
73	**+MCC13.3=AUX01-X51 (2)** =AUX01/301.1	PT2,5-PE Ground terminal spring	**Phoenix Contact**
74	**+MCC13.3=DC01-1LDC** =DC01/280.5	5SY6110-7 CIRCUIT BREAKER 230/400V 6KA, 1-POLE, C, 10A, D=70MM	**Siemens**
75	**+MCC13.3=DC01-2LDC** =DC01/280.7	5SY6106-7 CIRCUIT BREAKER 230/400V 6KA, 1-POLE, C, 6A, D=70MM	**Siemens**

Component list

Pos.	Component Page/path	Type Description	Make
76	**+MCC13.3=DC01-X1 (2)** =DC01/280.1	PT4 Terminal spring	**Phoenix Contact**
77	**+MCC13.3=DC01-X1** =DC01/280.1	PT4-PE Ground terminal	**Phoenix Contact**
78	**+MCC13.3=DC01-X100 (8)** =DC01/280.4	PT2,5 Terminal spring	**Phoenix Contact**
79	**+MCC13.3=DC01-X101 (3)** =DC01/280.6	PT2,5 Terminal spring	**Phoenix Contact**
80	**+MCC13.3=DC01-X102 (5)** =DC01/280.7	PT2,5 Terminal spring	**Phoenix Contact**
81	**+MCC13.3=DC02-1LDC** =DC02/290.3	5SY6104-7 CIRCUIT BREAKER 230/400V 6KA, 1-POLE, C, 4A, D=70MM	**Siemens**
82	**+MCC13.3=DC02-X1 (2)** =DC02/290.1	PT4 Terminal spring	**Phoenix Contact**
83	**+MCC13.3=DC02-X1** =DC02/290.1	PT4-PE Ground terminal	**Phoenix Contact**
84	**+MCC13.3=DC02-X52 (6)** =DC02/290.7	PT2,5 Terminal spring	**Phoenix Contact**
85	**+MCC13.3=ETH13-KF2001** =ETH13/600.1	6GK5216-0BA00-2AB2 SCALANCE XB216 MANAGEABLE SWITCH 16X 10/100 MBITS/S RJ45 POR	**Siemens**
86	**+MCC13.3=IO13-KF1001** =IO13/501.1	6ES7155-6AA01-0BN0 SIMATIC ET 200SP, PROFINET INTERFACE MODULE IM155-6PN STANDA	**Siemens**
87	**+MCC13.3=IO13-KF3001** =MCC13/210.4	6ES7193-6BP00-0DA0 SIMATIC ET 200SP, BASEUNIT BU15-P16+A0+2D, BU-TYPE A0, PUSH-	**Siemens**
88	**+MCC13.3=IO13-KF3001** =MCC13/210.4	6ES7131-6BH01-0BA0 SIMATIC ET200SP DI 16x24VDC STD	**Siemens**
89	**+MCC13.3=IO13-KF3002 (2)** =IO13/501.7	6ES7132-6BD20-0BA0 SIMATIC ET200SP DQ 4x24VDC/2A STD	**Siemens**
90	**+MCC13.3=IO13-KF3002** =IO13/501.7	6ES7193-6BP00-0BA0 SIMATIC ET 200SP, BASEUNIT BU15-P16+A0+2B, BU-TYPE A0, PUSH-	**Siemens**
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Graphic Cable Plan

Dan-Web®

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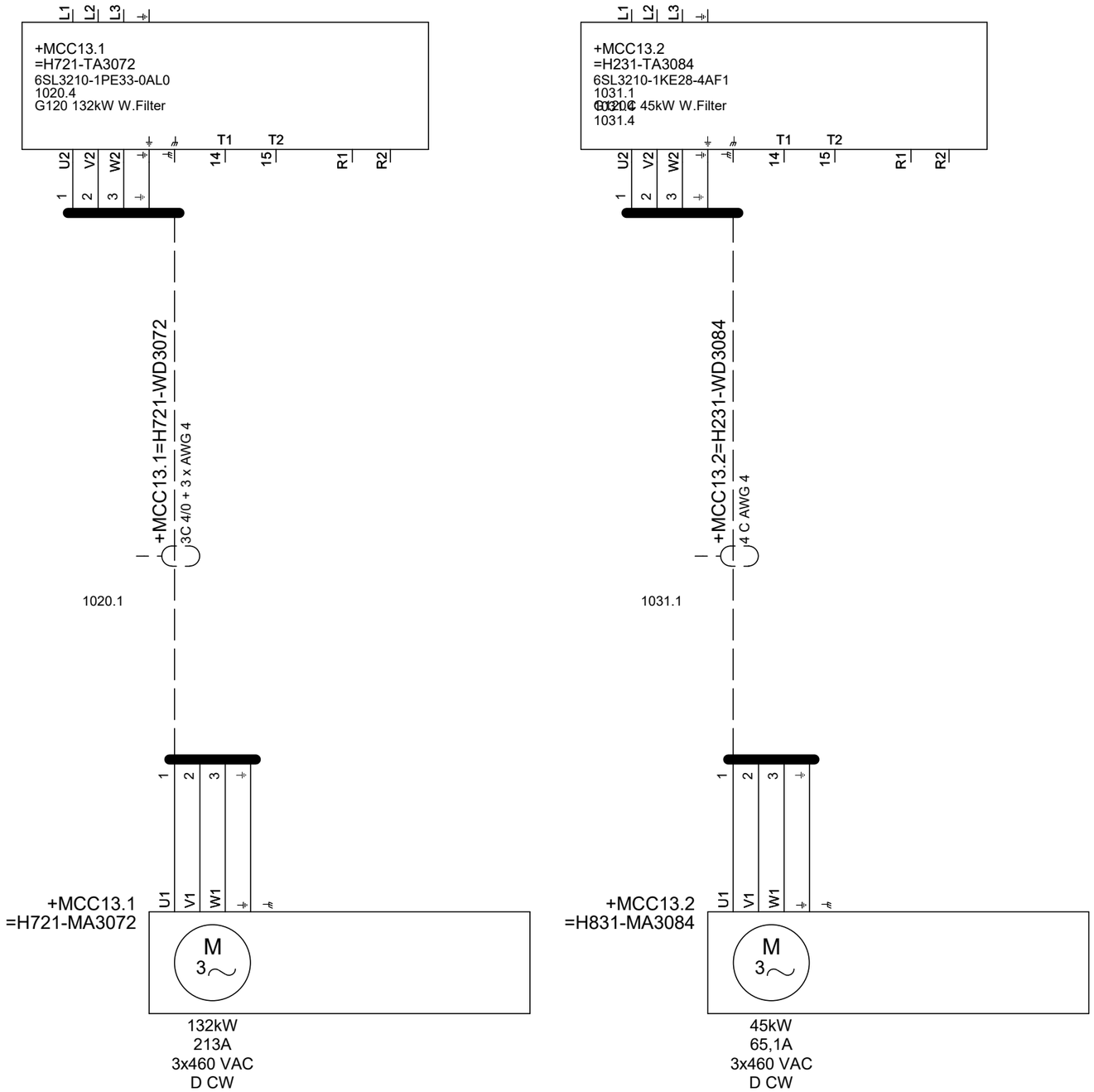

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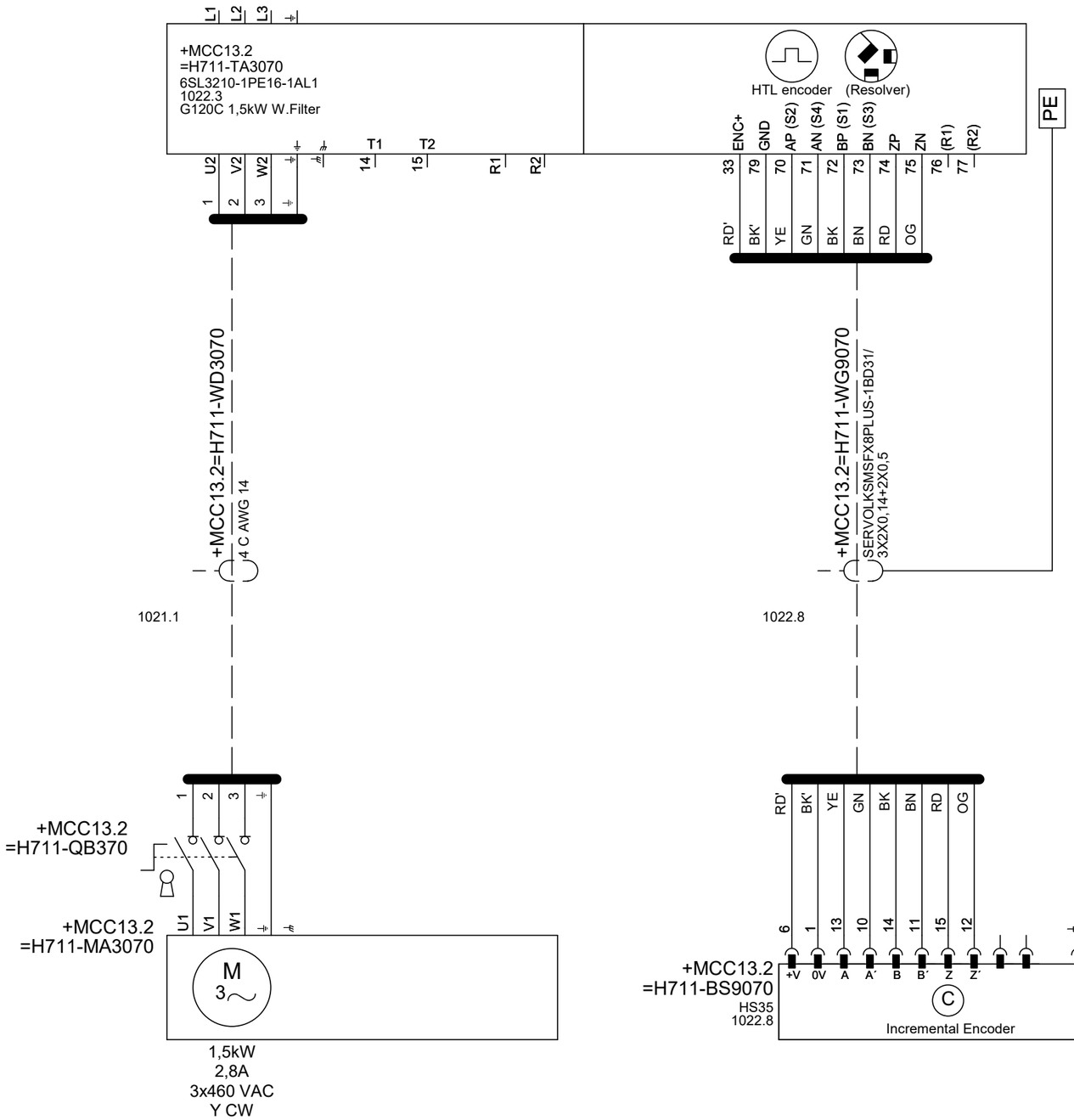

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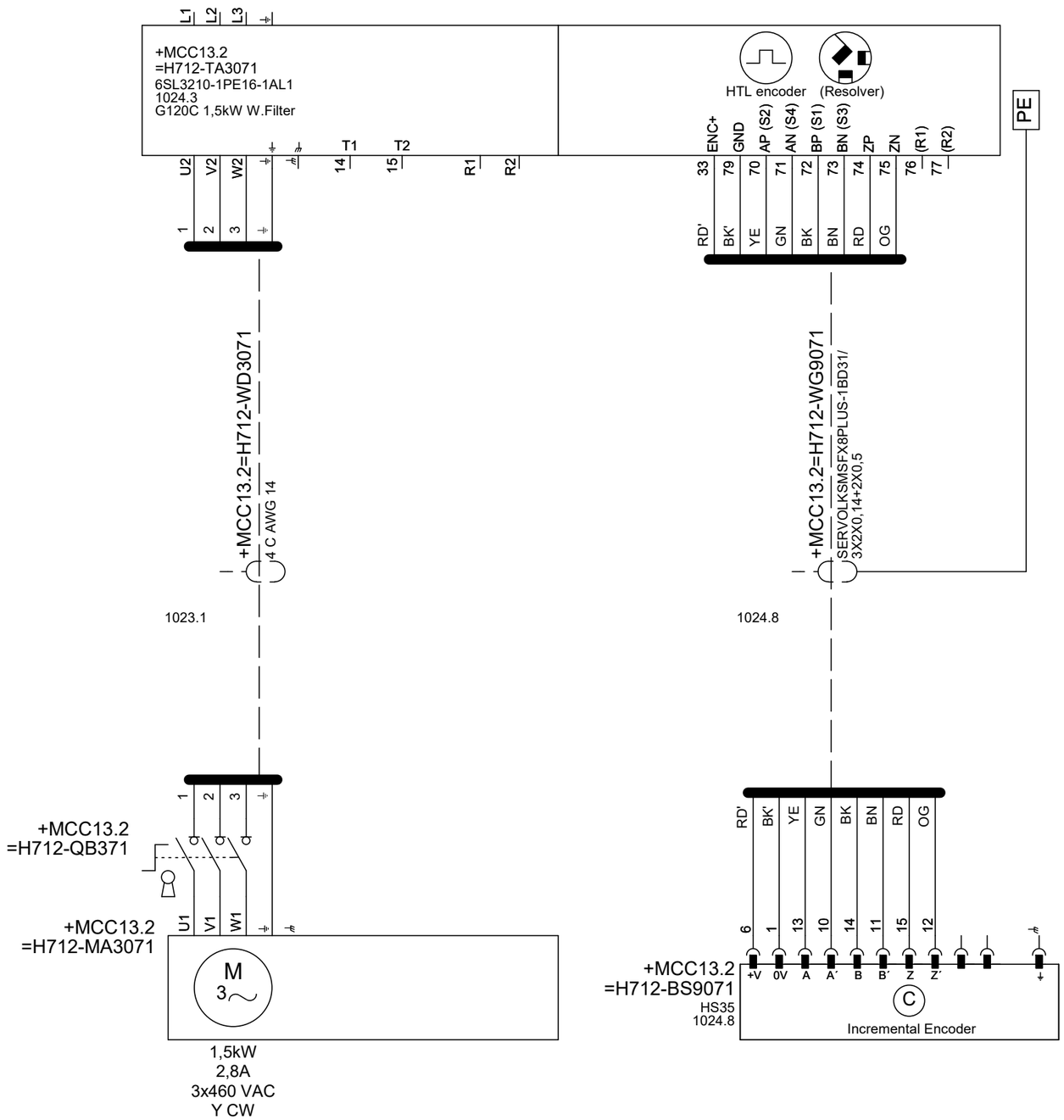

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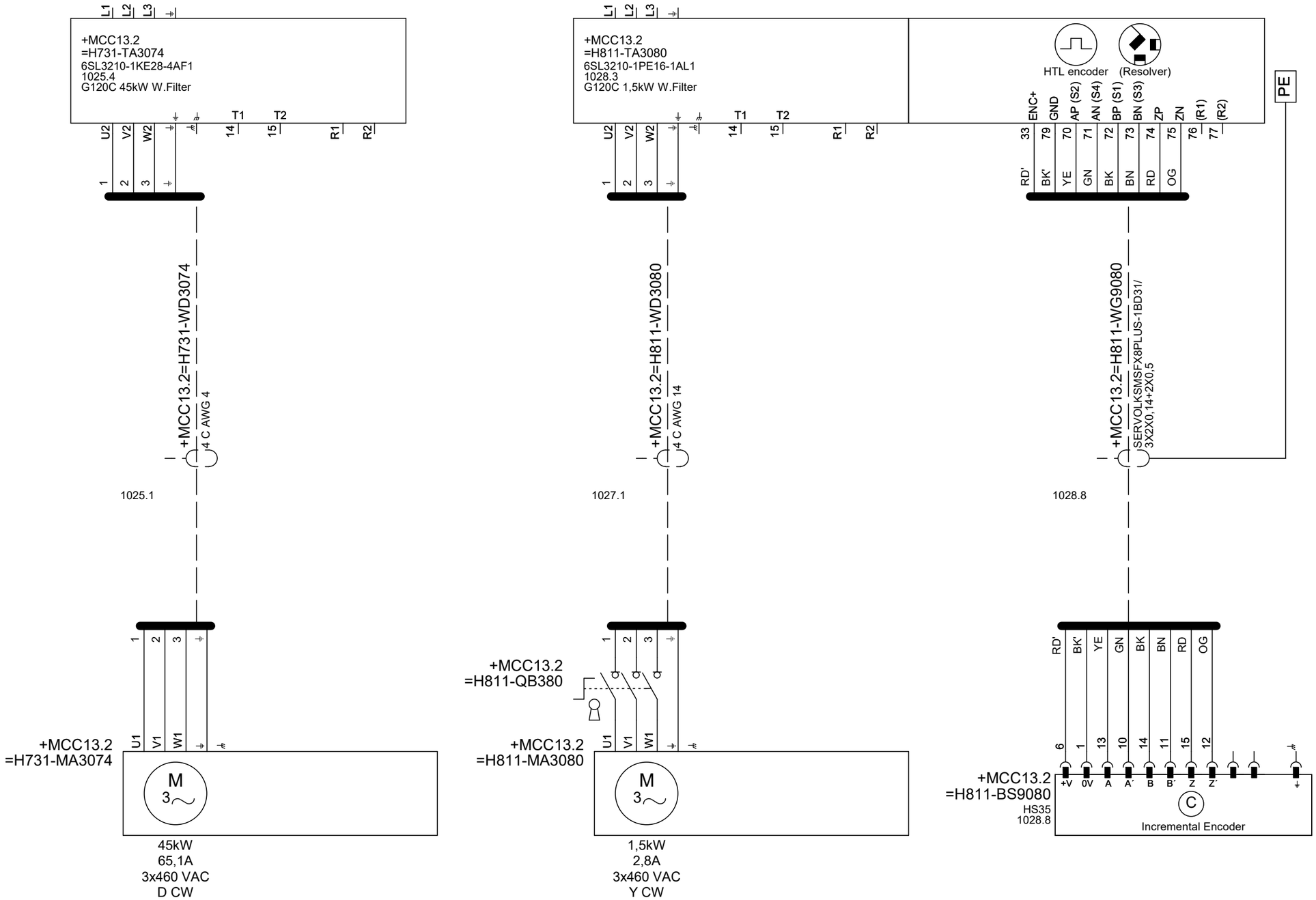

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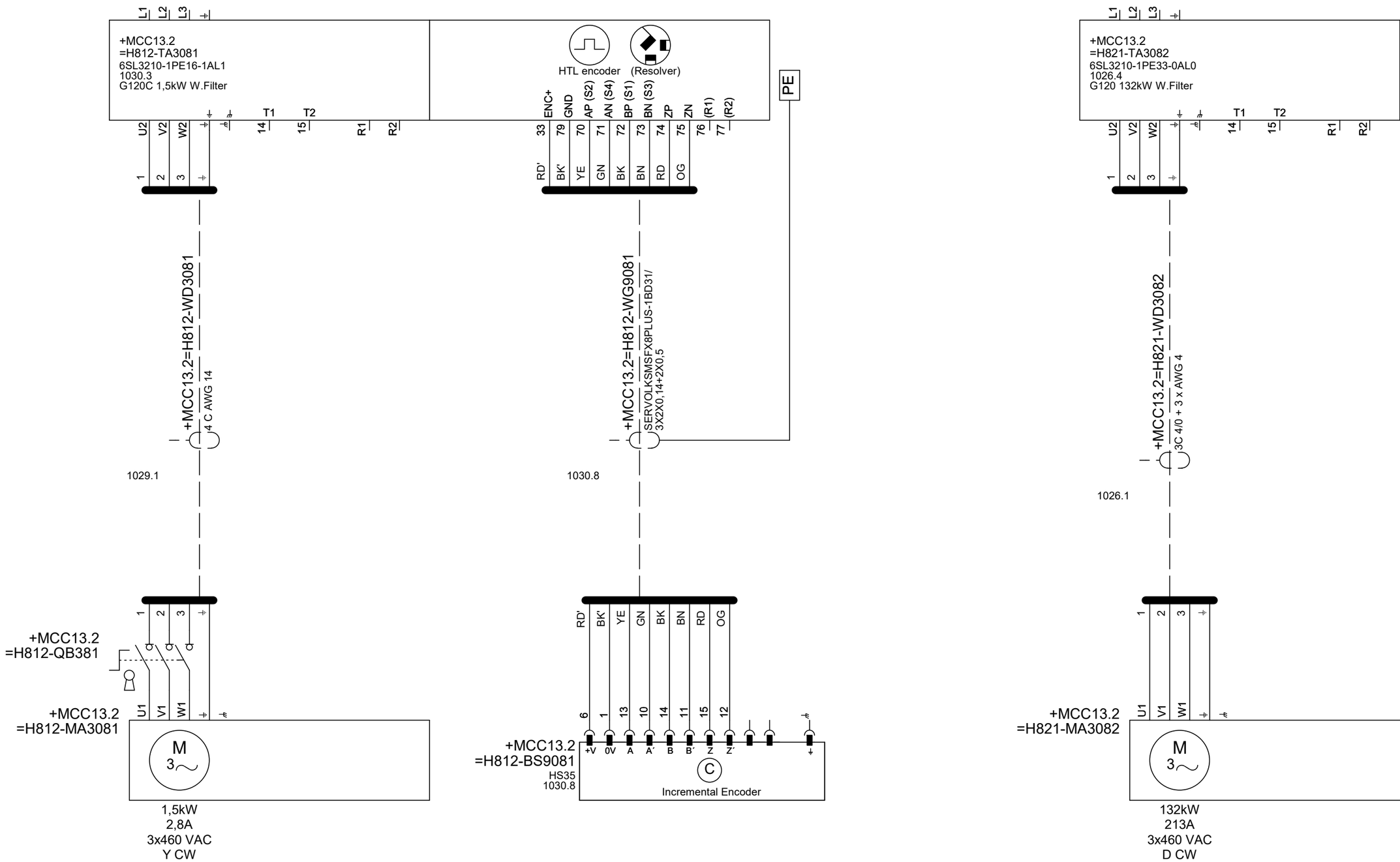

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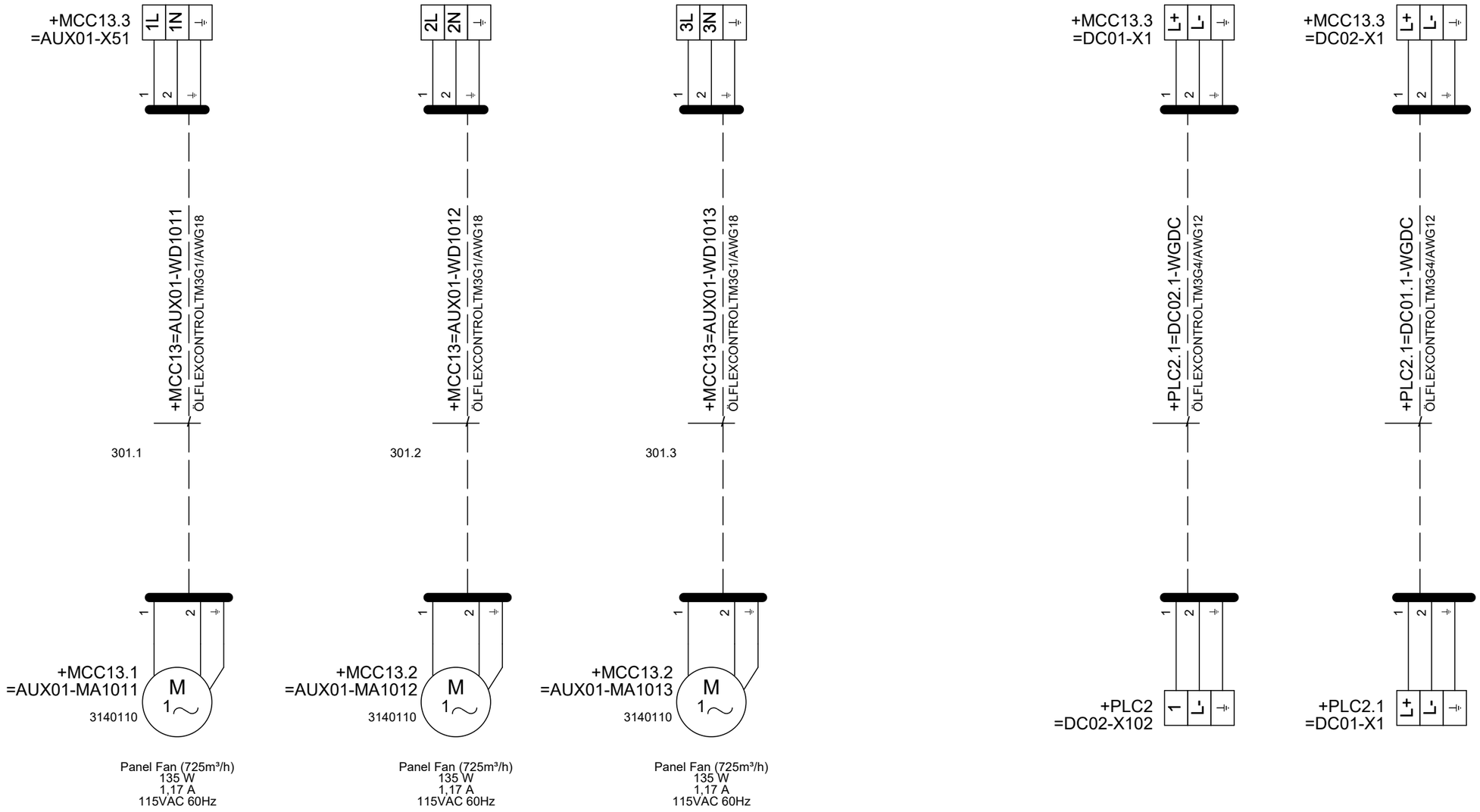

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