



Project Discription Feather Duster EMU Process Cabinet

Document Number 3HAW050024286-XXX  
Revision 005

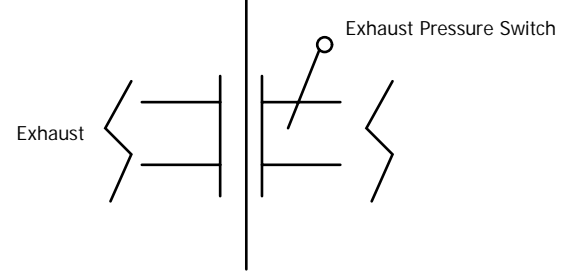
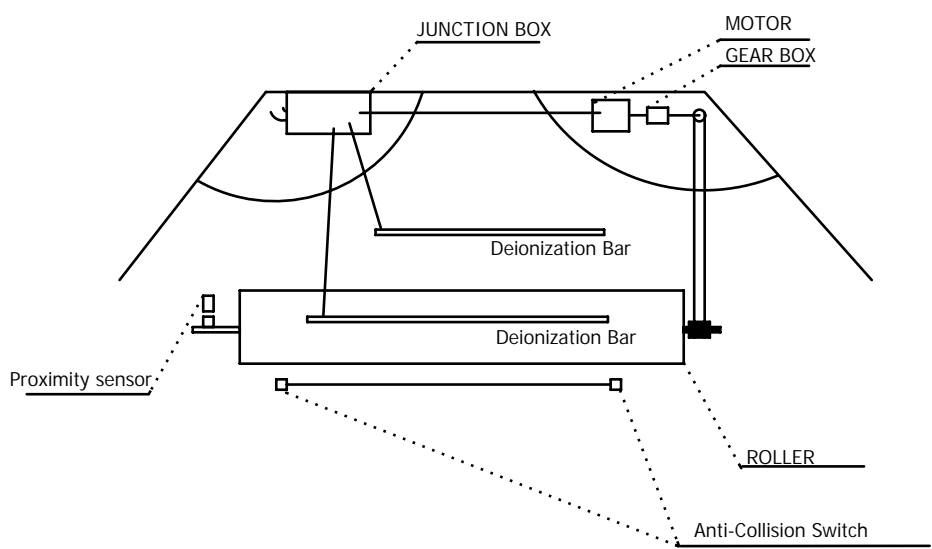
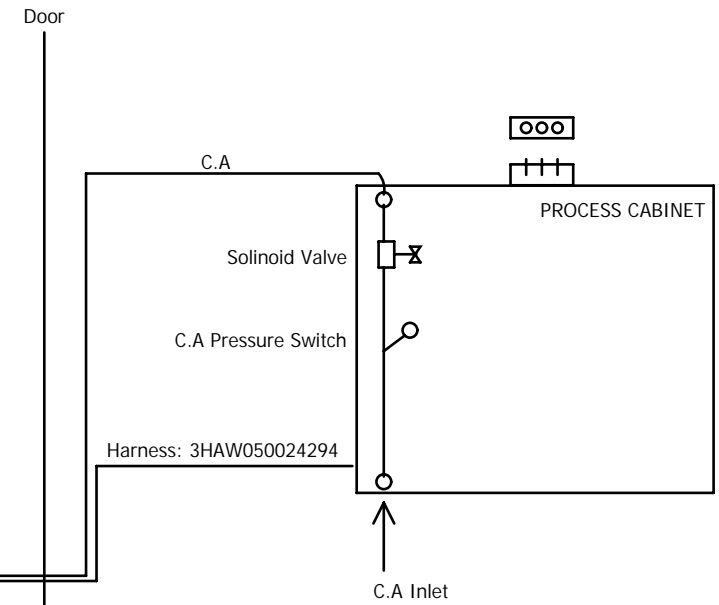
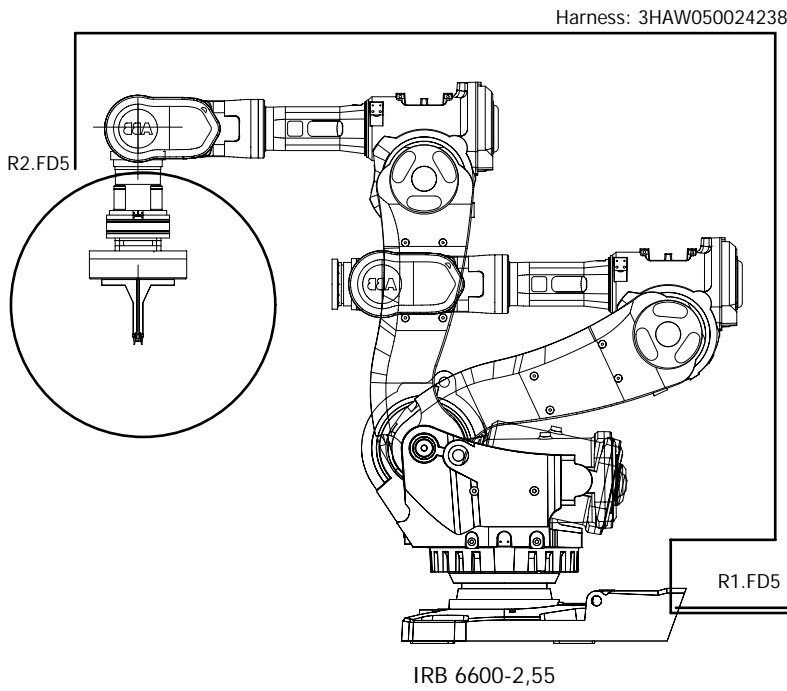
Number of pages 45

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Responsible Department: RS / BIW		Feather Duster EMU Process Cabinet			Title page / cover sheet	Status: Approved	= DECK
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- =DECK: COVER SHEET AND NOTE
- =INV: TABLE OF CONTENTS
- =EE0000: Cabinet and other descriptions
- =EE0001: PRINCIPLE DIAGRAM
- =EE0002: EXTERION HARTING
- =KLP: Terminal diagram
- =KAB: Plug Diagram
- =STK: Parts list
- =BSK: Summarized parts list

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=DECK/3

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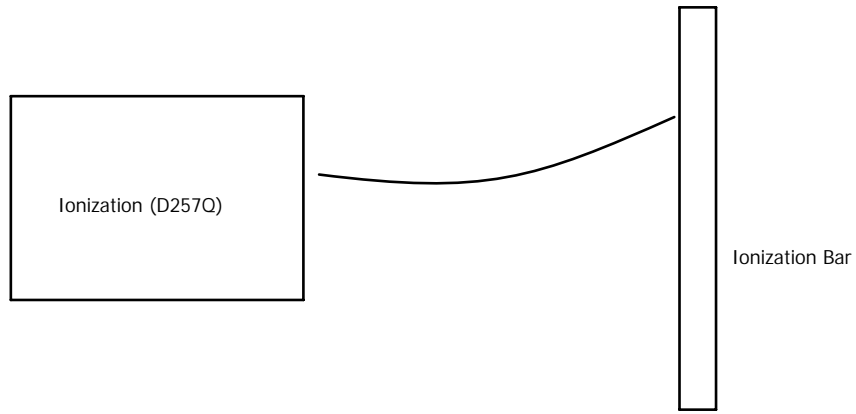


System diagram

Status: Approved	= EE0000
Document no. 3HAW050024286-XXX	+

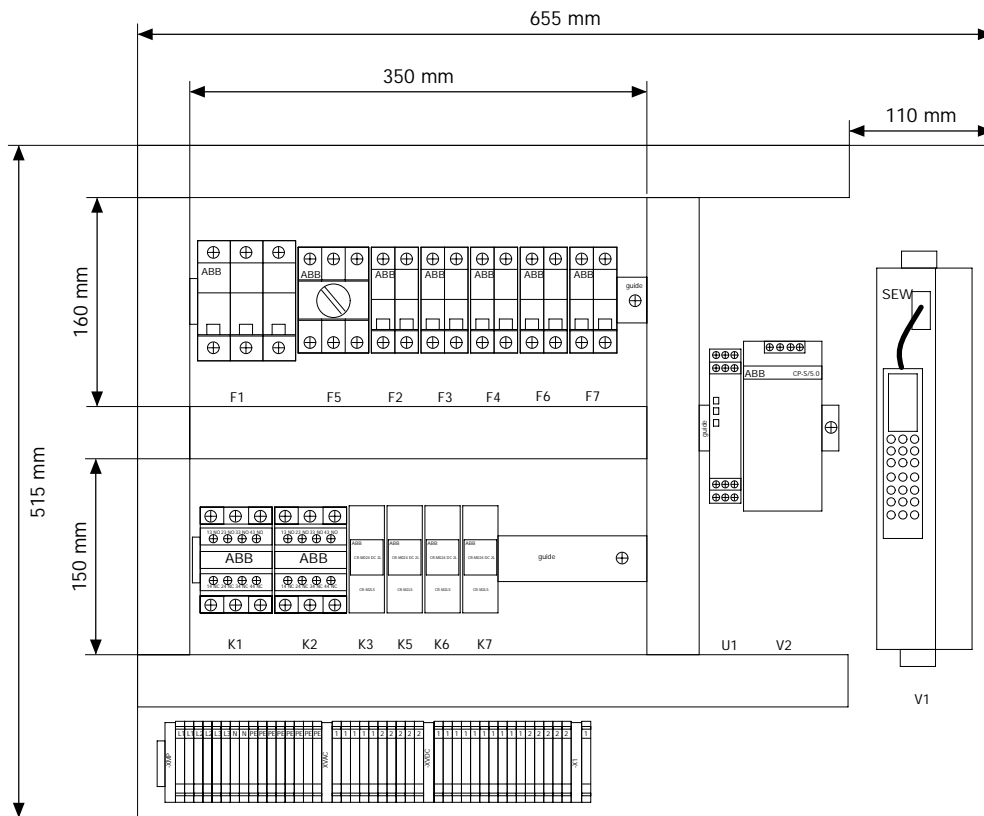
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Responsible Department: RS / BIW		Feather Duster EMU Process Cabinet			Ionization diagram	Status: Approved	= EE0000
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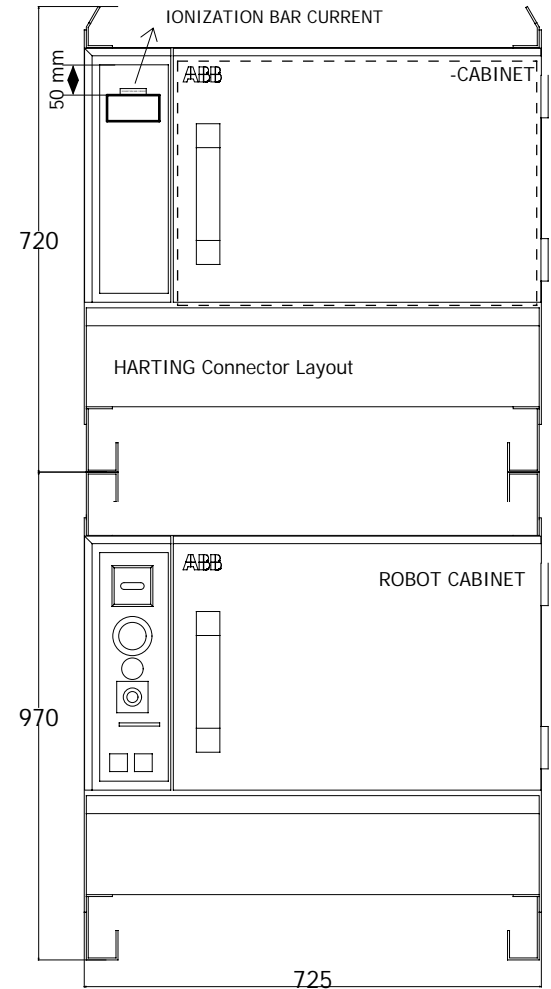
# Process Cabinet Layout



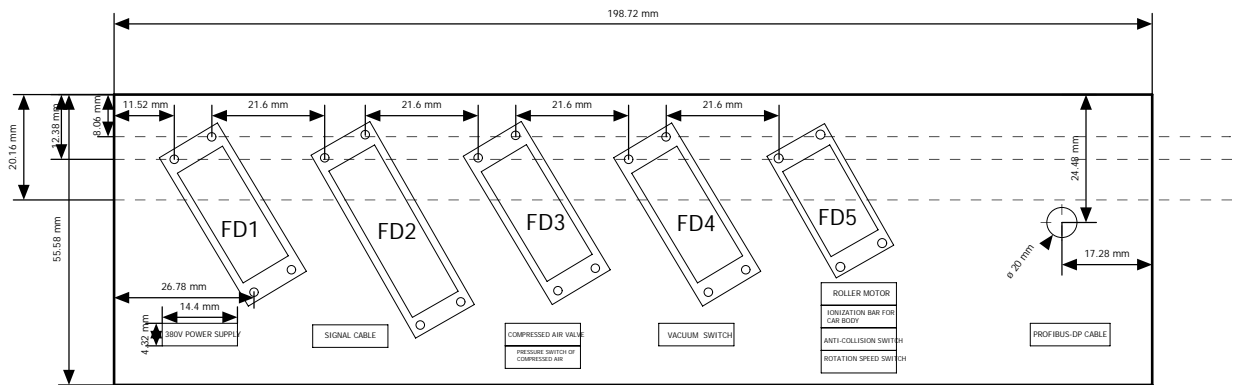
Option Transformer T1 is installed at the back of Process Cabinet

## SAP Number Option Detail :

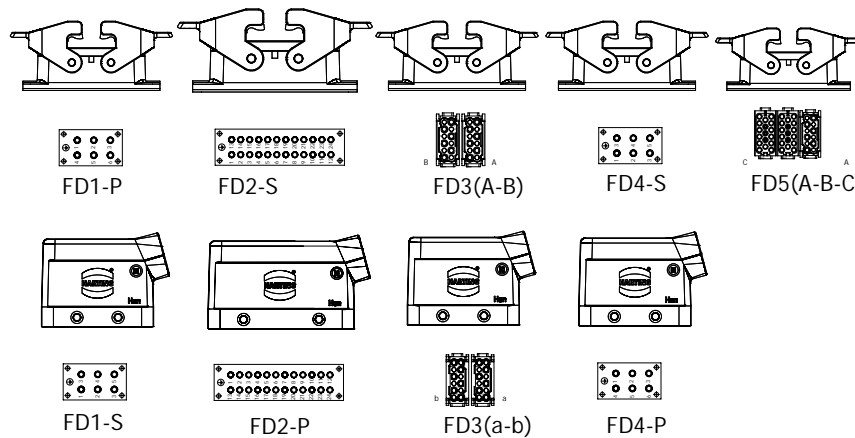
- 3HAW050024286-001---PROFIBUS
- 3HAW050024286-002---INTERBUS
- 3HAW050024286-003---ENTHERNET/IP MODBUS/TCP
- 3HAW050024286-004---PROFINET
- 3HAW050024286-005---PROFINET I/O
- 3HAW050024286-006---DEVICENET



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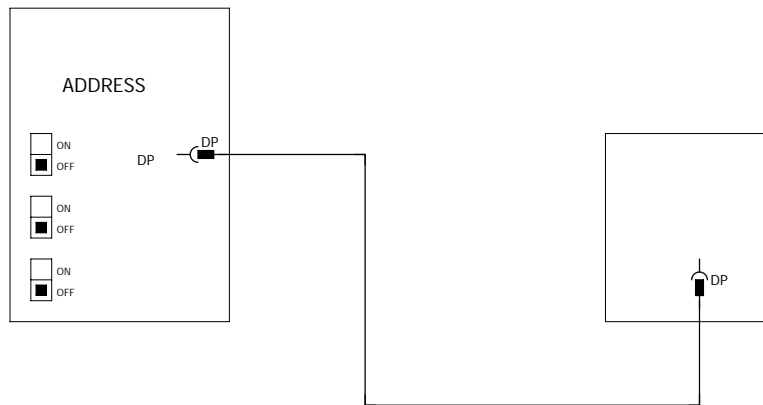


PROFIBUS DP

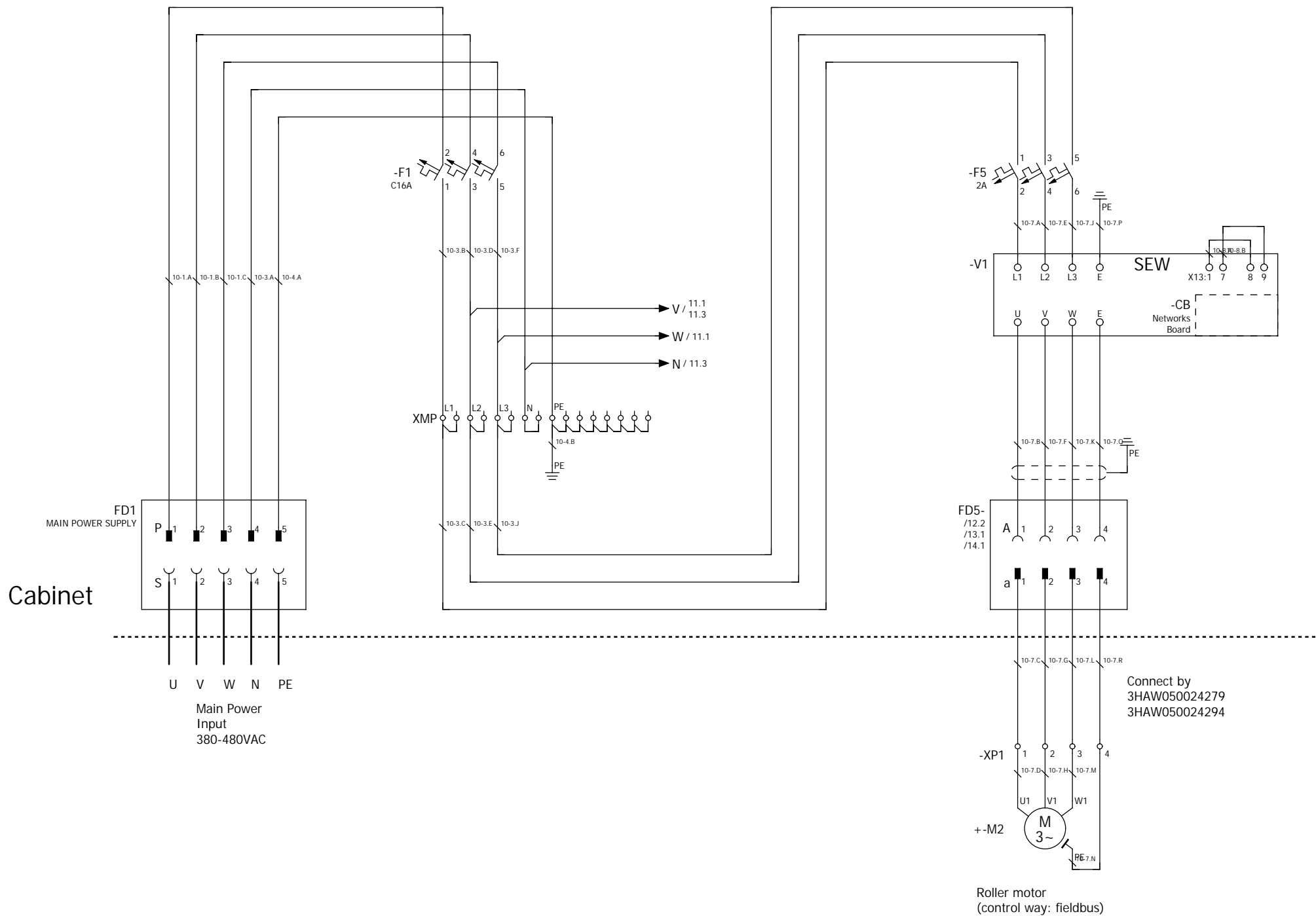


- FD1: 400/480V POWER SUPPLY
- FD2: SIGNAL CABLE
- FD3: COMPRESSED AIR VALVE  
PRESSURE SWITCH OF COMPRESSED AIR
- FD4: VACUUM SWITCH
- FD5-S: ROLLER MOTOR  
IONIZATION BAR FOR CAR BODY  
ANTI-COLLISION SWITCH  
ROTATION SPEED SWITCH

## Harting Layout



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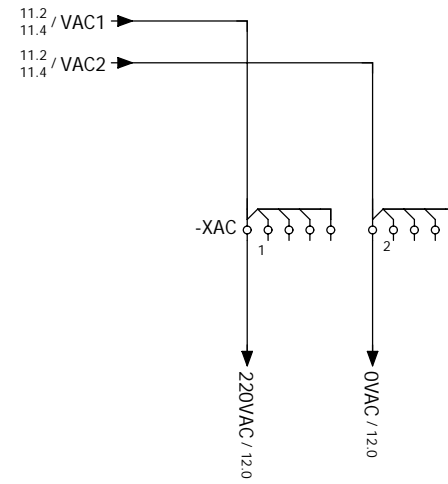
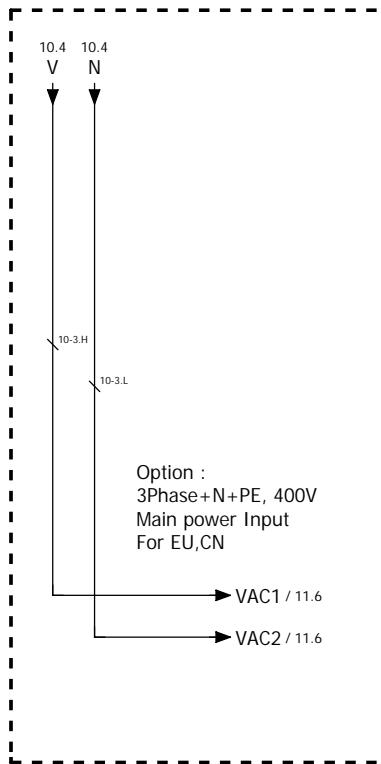
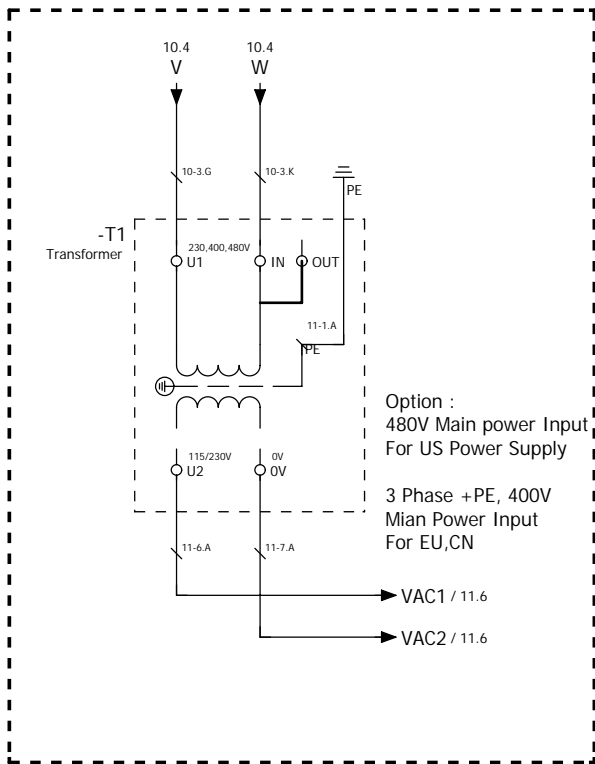
=EE0000/8

Responsible Department: RS / BIW			Feather Duster EMU Process Cabinet		Status: Approved		= EE0001	
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Main Power Supply & Motor Driver

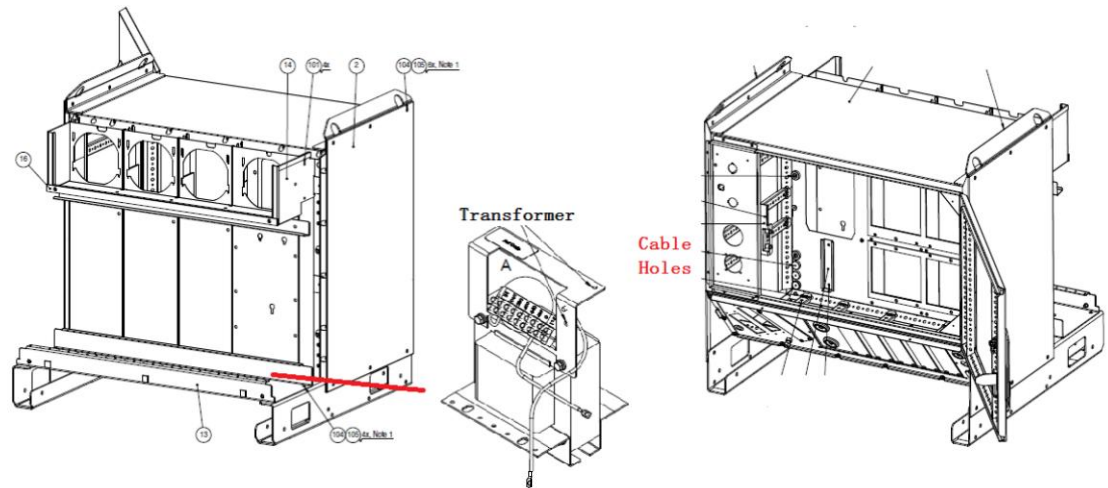




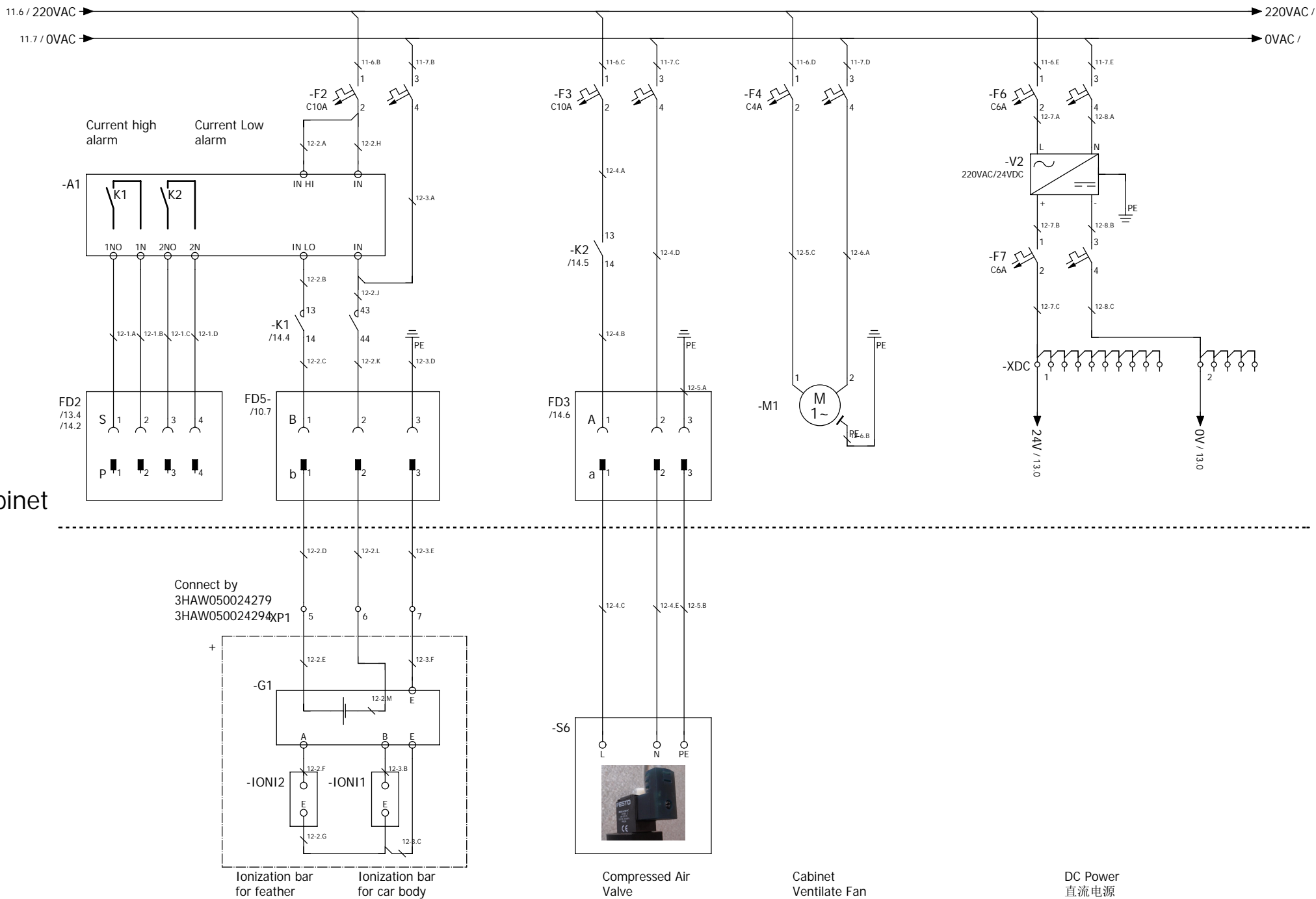
ATTENTION: Confirm the Power Supply Voltage

Main Voltage is 400V ---- Connect XMP to XAC  
Main Voltage is 480V ---- Connect XMP to T1/U1  
Connect T1/U2 to XAC

Transformer installation



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Cabinet

Connect by  
3HAW050024279  
3HAW050024294xP1

Ionization bar for feather      Ionization bar for car body

Compressed Air Valve

Cabinet Ventilate Fan

DC Power  
直流电源

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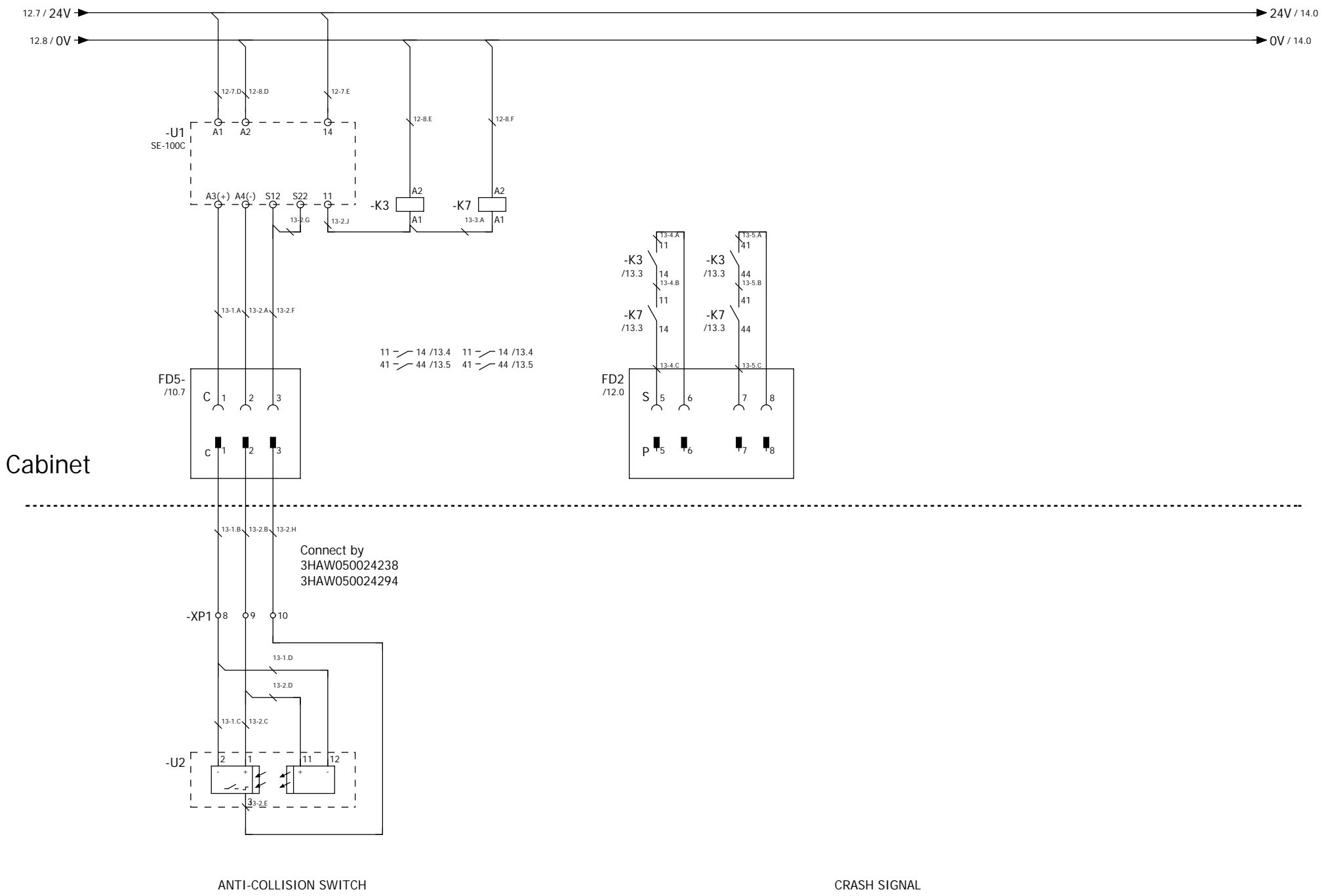
Feather Duster EMU Process Cabinet	
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Ionization & DC Power Supply

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Feather Duster EMU Process Cabinet	
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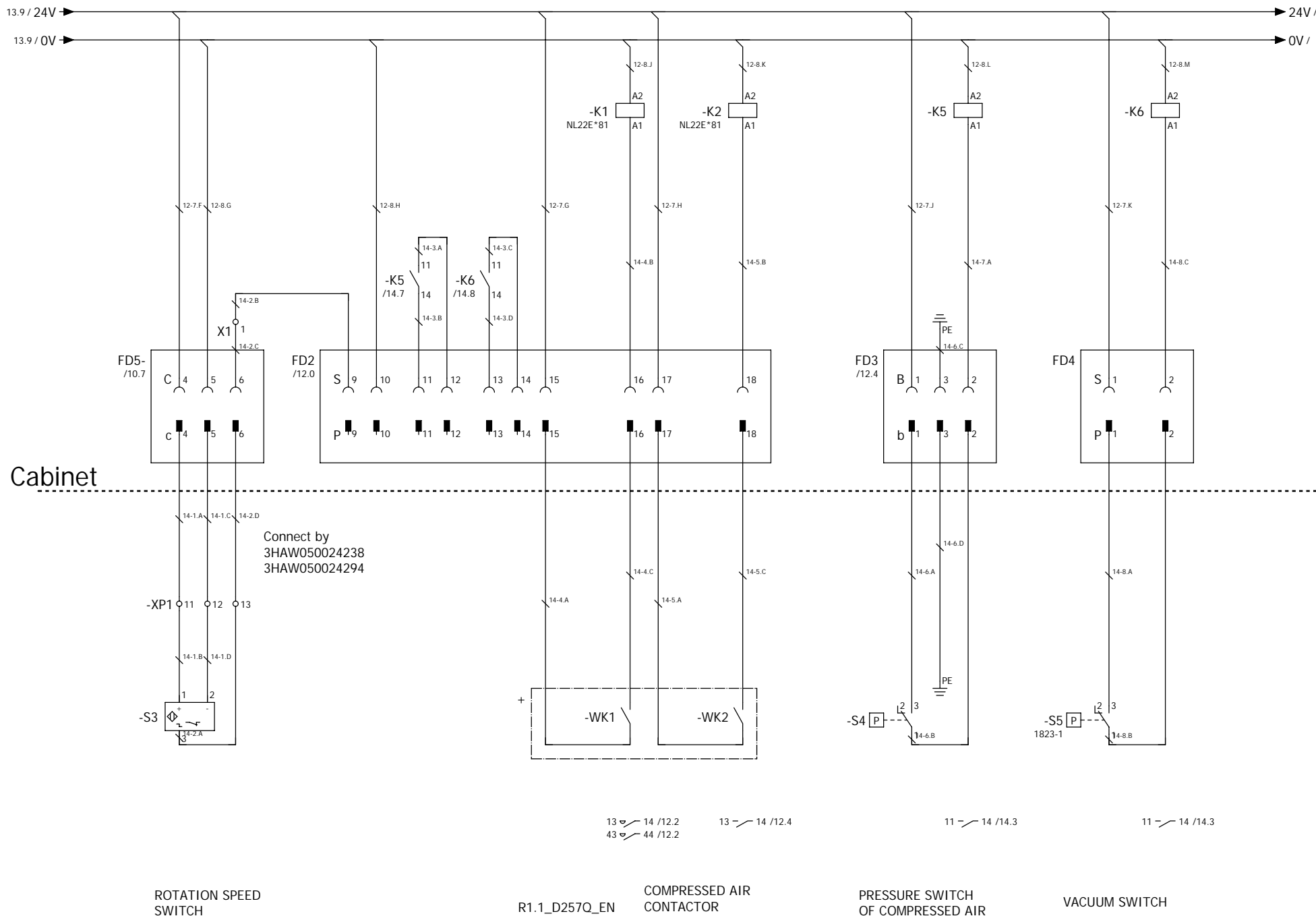


DC Control Circuit1

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ROTATION SPEED SWITCH

R1.1\_D257Q\_EN COMPRESSED AIR CONTACTOR

PRESSURE SWITCH OF COMPRESSED AIR

VACUUM SWITCH



# Terminal diagram

F13\_001

Function text	Strip =EE0001 +-X1						Page / column				
	Cable name	Cable type	Target designation	Connection point	Terminal	Jumper		Target designation	Connection point	Cable type	Cable name
ROTATION SPEED SWITCH			-FD5-C	6	1		-FD2-S	9			/14.2

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# Terminal diagram

F13\_001

Function text	Strip = EE0001 + -XAC						Cable name	Cable type	Page / column	
	Cable name	Cable type	Target designation	Connection point	Terminal	Jumper				Target designation
			-F6	1	1		-XMP	L3	/11.6	
			-F4	1				-T1		
			-F3	1						
			-F2	1						
					1				/11.6	
					1				/11.7	
					1				/11.7	
			-F6	3	2		-XMP	N	/11.7	
			-F4	3			-T1			
			-F3	3						
			-F2	3						
					2				/11.7	
					2				/11.7	
					2				/11.7	
					2				/11.7	

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# Terminal diagram

F13\_001

Function text	Strip = EE0001 + -XDC					Cable name	Cable name				
	Cable name	Cable type	Target designation	Connection point	Terminal		Jumper	Target designation	Connection point	Cable type	Page / column
			-FD4-S	1	1		-F7	2		/12.7	
			-FD3-B	1							
			-FD2-S	17							
			-FD2-S	15							
			-FD5-C	4							
			-U1	14							
			-U1	A1							
					1						/12.7
					1						/12.7
					1						/12.7
					1						/12.8
					1						/12.8
					1					/12.8	
					1					/12.8	
					1					/12.8	
			-K6	A2	2		-F7	4		/12.8	
			-K5	A2							
			-K2	A2							
			-K1	A2							
			-FD2-S	10							
			-FD5-C	5							
			-K7	A2							
			-K3	A2							
			-U1	A2							
					2					/12.8	
					2					/12.8	
					2					/12.9	
					2					/12.9	

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# Terminal diagram

F13\_001

Function text	Strip = EE0001 +-XMP							Cable name	Cable type	Page / column
	Cable name	Cable type	Target designation	Connection point	Terminal	Jumper	Target designation			
			-F5	1	L1	┆ ┆ ┆	-F1	1	/10.3	
					L1					/10.3
			-F5	3	L2			-F1	3	/10.3
					L2	┆			/10.3	
			-F5	5	L3	┆ ┆ ┆	-F1	5	/10.3	
					L3			-T1	U1	
					N			-XAC	1	/10.3
					N	┆ ┆ ┆	-FD1-P	4	/10.4	
					PE			-T1	IN	
					PE			-XAC	2	/10.4
					PE	┆ ┆ ┆ ┆ ┆ ┆ ┆	-FD1-P	5	/10.4	
					PE					/10.4
					PE					/10.4
					PE					/10.4
					PE					/10.4
					PE					/10.4
					PE					/10.4

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# Terminal diagram

F13\_001

Function text	Cable name	Cable type	Strip =EE0001+ -XP1				Cable name	Cable type	Page / column
			Target designation	Connection point	Terminal	Jumper			
Roller motor (control way: fieldbus)			-M2	U1	1		-FD5-a	1	/10.7
=			-M2	V1	2		-FD5-a	2	/10.7
=			-M2	W1	3		-FD5-a	3	/10.7
=			-M2	PE	4		-FD5-a	4	/10.8
			-G1		5		-FD5-b	1	/12.2
			-G1		6		-FD5-b	2	/12.2
			-G1-E		7		-FD5-b	3	/12.3
ANTI-COLLISION SWITCH			-U2	2	8	•	-FD5-c	1	/13.1
			-U2	12					
ANTI-COLLISION SWITCH			-U2	1	9	•	-FD5-c	2	/13.2
			-U2	11					
ANTI-COLLISION SWITCH			-U2	3	10	•	-FD5-c	3	/13.2
ROTATION SPEED SWITCH			-S3	1	11	•	-FD5-c	4	/14.1
=			-S3	2	12	•	-FD5-c	5	/14.1
=			-S3	3	13	•	-FD5-c	6	/14.2

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# Plug diagram

Function text		Strip designation = EE0001 +-FD1-P					Page / column						
		Cable name	Cable type	Target designation	Connection point	Plug designation			Jumper	Device connection point	Target designation	Connection point	Cable type
				-F1	2	1							/10.1
				-F1	4	2							/10.1
				-F1	6	3							/10.1
				-XMP	N	4							/10.2
				-XMP	PE	5							/10.2

=KLP/24

# Plug diagram

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Strip designation = EE0001 +-FD1-S											
Function text	Cable name	Strip designation				Cable name	Page / column				
	Cable type	Target designation	Connection point	Plug designation	Jumper	Device connection point		Target designation	Connection point	Cable type	
				1							/10.1
				2							/10.1
				3							/10.1
				4							/10.2
				5							/10.2

# Plug diagram

Function text	Cable name	Cable type	Strip designation = EE0001 + -FD2-P					Cable name	Cable type	Page / column		
			Target designation	Connection point	Plug designation	Jumper	Device connection point				Target designation	Connection point
					1				/12.1			
					2				/12.1			
					3				/12.1			
					4				/12.1			
ANTI-COLLISION SWITCH					5				/13.4			
=					6				/13.5			
=					7				/13.5			
=					8				/13.5			
ROTATION SPEED SWITCH					9				/14.2			
=					10				/14.3			
=					11				/14.3			
=					12				/14.3			
=					13				/14.3			
=					14				/14.4			
=					-WK1	15			/14.4			
R1.1_D2570_EN					-WK1	16			/14.4			
COMPRESSED AIR CONTACTOR					-WK2	17			/14.4			
=					-WK2	18			/14.5			

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# Plug diagram

F22\_001

Function text	Cable name	Cable type	Strip designation = EE0001 + -FD2-S					Cable name	Cable type	Page / column
			Target designation	Connection point	Plug designation	Jumper	Device connection point			
					1			-A1	1NO	/12.1
					2			-A1	1N	/12.1
					3			-A1	2NO	/12.1
					4			-A1	2N	/12.1
ANTI-COLLISION SWITCH					5			-K7	14	/13.4
=					6			-K3	11	/13.5
=					7			-K7	44	/13.5
=					8			-K3	41	/13.5
ROTATION SPEED SWITCH					9			-X1	1	/14.2
=					10			-XDC	2	/14.3
=					11			-K5	14	/14.3
=					12			-K5	11	/14.3
=					13			-K6	14	/14.3
=					14			-K6	11	/14.4
=					15			-XDC	1	/14.4
R1.1_D2570_EN					16			-K1	A1	/14.4
COMPRESSED AIR CONTACTOR					17			-XDC	1	/14.4
=					18			-K2	A1	/14.5

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# Plug diagram

F22\_001

Function text	Cable name	Cable type	Strip designation = EE0001 +-FD3-A				Cable name	Cable type	Page / column	
			Target designation	Connection point	Plug designation	Jumper				Device connection point
					1			-K2	14	/12.4
					2			-F3	4	/12.4
					3				PE	/12.5

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# Plug diagram

Function text	Cable name	Cable type	Strip designation = EE0001 + -FD3-B				Cable name	Cable type	Page / column	
			Target designation	Connection point	Plug designation	Jumper				Device connection point
PRESSURE SWITCH OF COMPRESSED AIR					1			-XDC	1	/14.6
=					2			-K5	A1	/14.7
=					3			-X1	PE	/14.6

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# Plug diagram

F22\_001

Function text	Strip designation = EE0001 + -FD3-a							Cable type	Page / column
	Target designation	Connection point	Plug designation	Jumper	Device connection point	Target designation	Connection point		
	-S6	L	1					/12.4	
	-S6	N	2					/12.4	
	-S6	PE	3					/12.5	

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