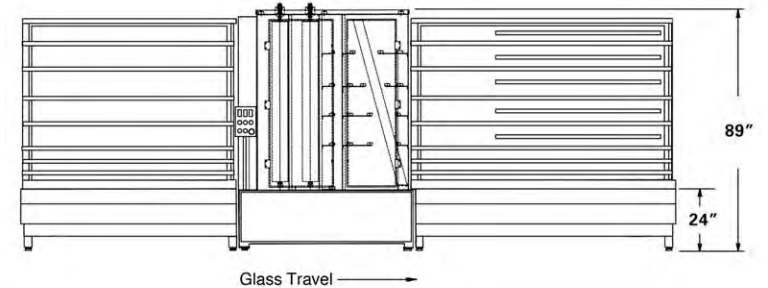
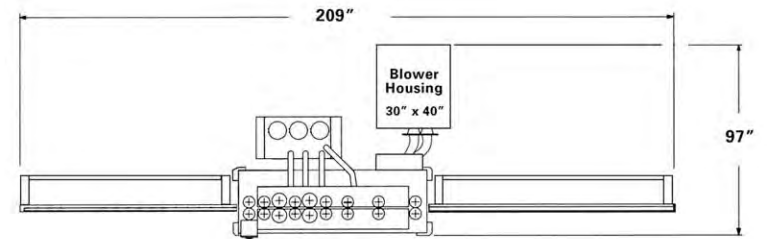
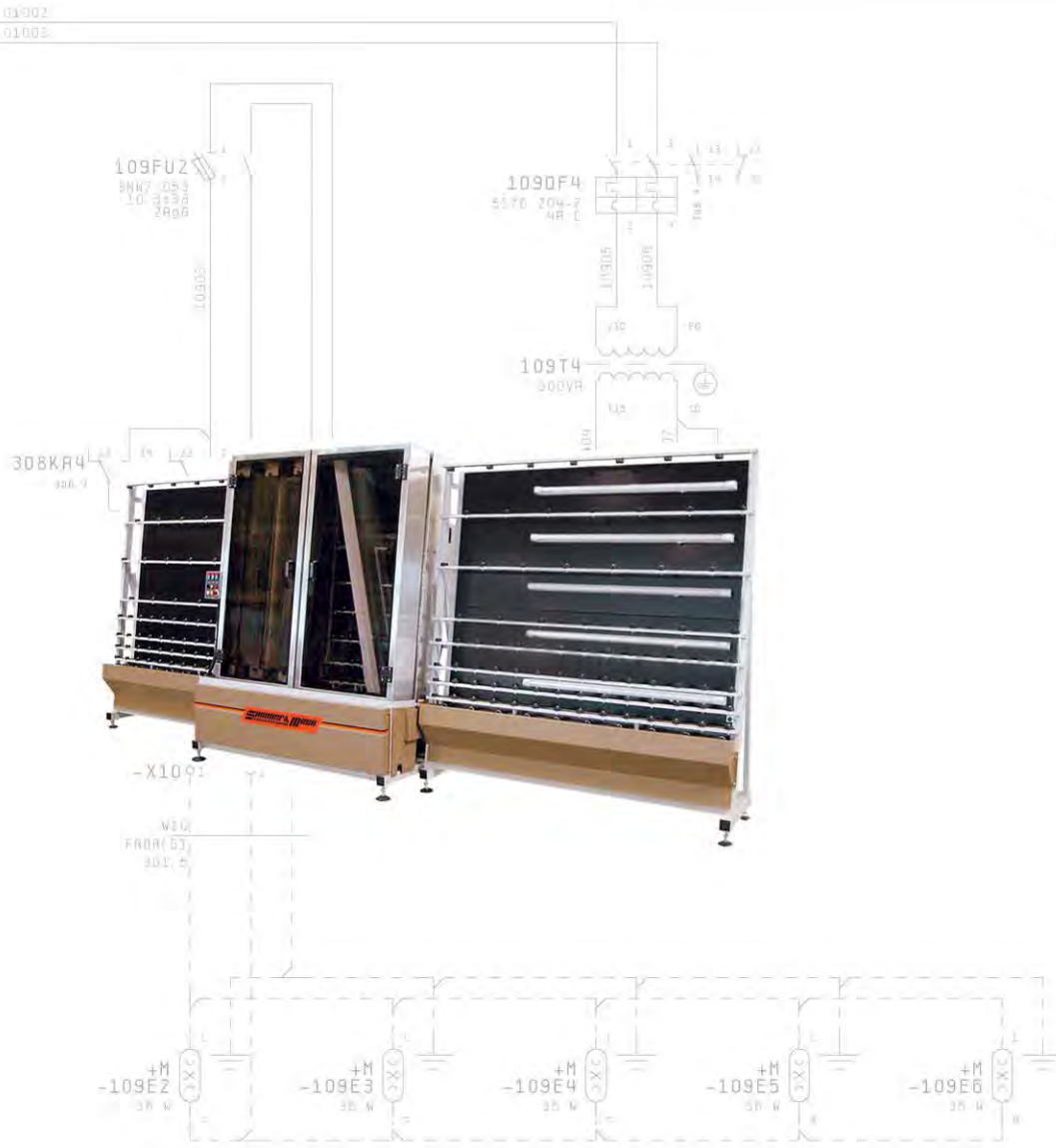


SM63V Vertical Washer Electrical Schematic



SM63V Vertical Washer

QE

MAIN CABINET VERTICAL CLEANER

SM63V

YEAR : 2009

DRAWING NUMBER : LV TOP 1642-13

JOB : 34-08

REFERENCE : 2009000039

ELECTRIC TECHNICAL DATA

WORKING VOLTAGE : 220 Vac - 60 Hz
 KIND OF POWER SUPPLY : 3PH + PE
 SYSTEM :
 POWER : 9 kW
 ISOLATING VOLTAGE : 750 V
 AUXILIARY VOLTAGE : 24 Vac
 SHORT CIRCUIT CURRENT : 6 kA

MECHANIC TECHNICAL DATA

DIMENSIONS (LXHXW) : 800x1000x400
 PAINT : RAL 7035
 EXTERNAL PROTECTION DEGREE : IP 55
 INTERNAL PROTECTION DEGREE : IP 20

STANDARD REFERENCES

EN60439-1
 EN 60 204-1
 CEI17-13/1
 CEI44-5

WIRES COLOUR

PHASES : Black
 NEUTRAL : Clear blue
 PE : Yellow-green
 AUXILIARY 24 Vac : Red
 AUXILIARY 110 Vac : Red
 AUXILIARY 230 Vac : Red
 AUXILIARY 24 Vdc : Blue
 EXTERNAL CIRCUITS : Orange

REVISIONS

EMISSION DATE : 15. Dic. 2008
 REVISION :
 REVISION DATE :
 DRAFTSMAN : CES

Emission date	03. Feb. 2009	Circuit:
Draftsman	CES	COVER
Revision		
Revision date		



Plant:
 VERTICAL CLEANER
 MAIN CABINET

NO	Drawing number:	LV TOP 1642-13	Sheet	1
	Job:	34-08	Next	2
	EPLAN 5.75.3			

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Plant	Location	Page	Page designation	Supplementary field	Date	Editor	Rev
	QE	1	COVER		23. Gen. 2009	CES	
	QE	2	INDEX		02. Feb. 2009	CES	
	QE	2a	INDEX		02. Feb. 2009	CES	
	QE	3	TERMINAL BOARDS LEGEND		02. Feb. 2009	CES	
	QE	5	CABINET LAYOUT		02. Feb. 2009	CES	
	QE	6	CABINET LAYOUT		02. Feb. 2009	CES	
	QE	10	POWER CIRCUIT		26. Gen. 2009	CES	
	QE	20	AUXILIARY TRANSFORMER		14. Gen. 2009	CES	
	QE	100	POWER CIRCUIT		02. Feb. 2009	CES	
	QE	101	POWER CIRCUIT		02. Feb. 2009	CES	
	QE	103	POWER CIRCUIT		02. Feb. 2009	CES	
	QE	108	POWER CIRCUIT		02. Feb. 2009	CES	
	QE	109	POWER CIRCUIT		02. Feb. 2009	CES	
	QE	200	EMERGENCY CIRCUIT		14. Gen. 2009	CES	
	QE	300	AUXILIARY CIRCUITS		14. Gen. 2009	CES	
	QE	301	AUXILIARY CIRCUITS		02. Feb. 2009	CES	
	QE	302	AUXILIARY CIRCUITS		02. Feb. 2009	CES	
	QE	303	AUXILIARY CIRCUITS		23. Gen. 2009	CES	
	QE	308	AUXILIARY CIRCUITS		02. Feb. 2009	CES	
	QE	1000	TERMINAL BOARDS SUMMARY		02. Feb. 2009	CES	
	QE	1100	+QE-X0 POWER CIRCUIT		02. Feb. 2009	CES	
	QE	1101	+QE-X1 LINE ENTRY		02. Feb. 2009	CES	
	QE	1102	+QE-X10 AUXILIARY CIRCUITS 230Vac		02. Feb. 2009	CES	
	QE	1103	+QE-X12 AUXILIARY CIRCUITS 24Vac		02. Feb. 2009	CES	
	QE	1104	+QE-X13 LOCAL PANEL		02. Feb. 2009	CES	
	QE	2000	CABLE SUMMARY		02. Feb. 2009	CES	
	QE	2101	CABLE CONNECTIONS DIAGRAM		02. Feb. 2009	CES	
	QE	2102	CABLE CONNECTIONS DIAGRAM		02. Feb. 2009	CES	
	QE	2103	CABLE CONNECTIONS DIAGRAM		02. Feb. 2009	CES	
	QE	2104	CABLE CONNECTIONS DIAGRAM		02. Feb. 2009	CES	

Emission date 03. Feb. 2009
 Draftsman CES
 Revision
 Revision date

Circuit:
 INDEX



Plant:
 VERTICAL CLEANER
 MAIN CABINET

QE	Drawing number: LV TOP 1642-13	Sheet	2
	Job: 34-08	Next	2a
	EPLAN 5.75.3		

TERMINAL BOARDS LEGEND

TERMINAL BOARD NAME





X0=POWER CIRCUIT

X1=LINE ENTRY

X10=AUXILIARY CIRCUITS 230Vac

X12=AUXILIARY CIRCUITS 24Vac

X13=LOCAL PANEL

SYMBOLS	DESCRIPTION	SYMBOLS	DESCRIPTION
	Terminal clamp		Fused terminal clamp
	Sectionable terminal clamp		Fused terminal clamp with led

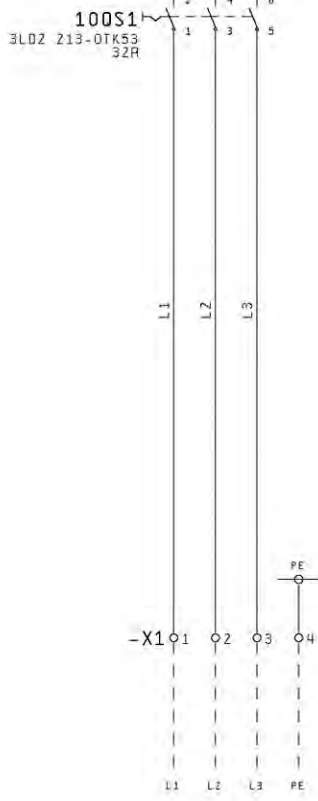
Emission date	03.Feb.2009	Circuit:
Draftsman	LES	TERMINAL BOARDS LEGEND
Revision		
Revision date		



Plant:	VERTICAL CLEANER MAIN CABINET
--------	----------------------------------

NO	Drawing number:	LV TOP 1642-13	Sheet	3
	Job:	34-08	Next	5
	EPLAN 5.75.3			

01001 → /20.0
 01002 → /20.0
 01003 → /20.0



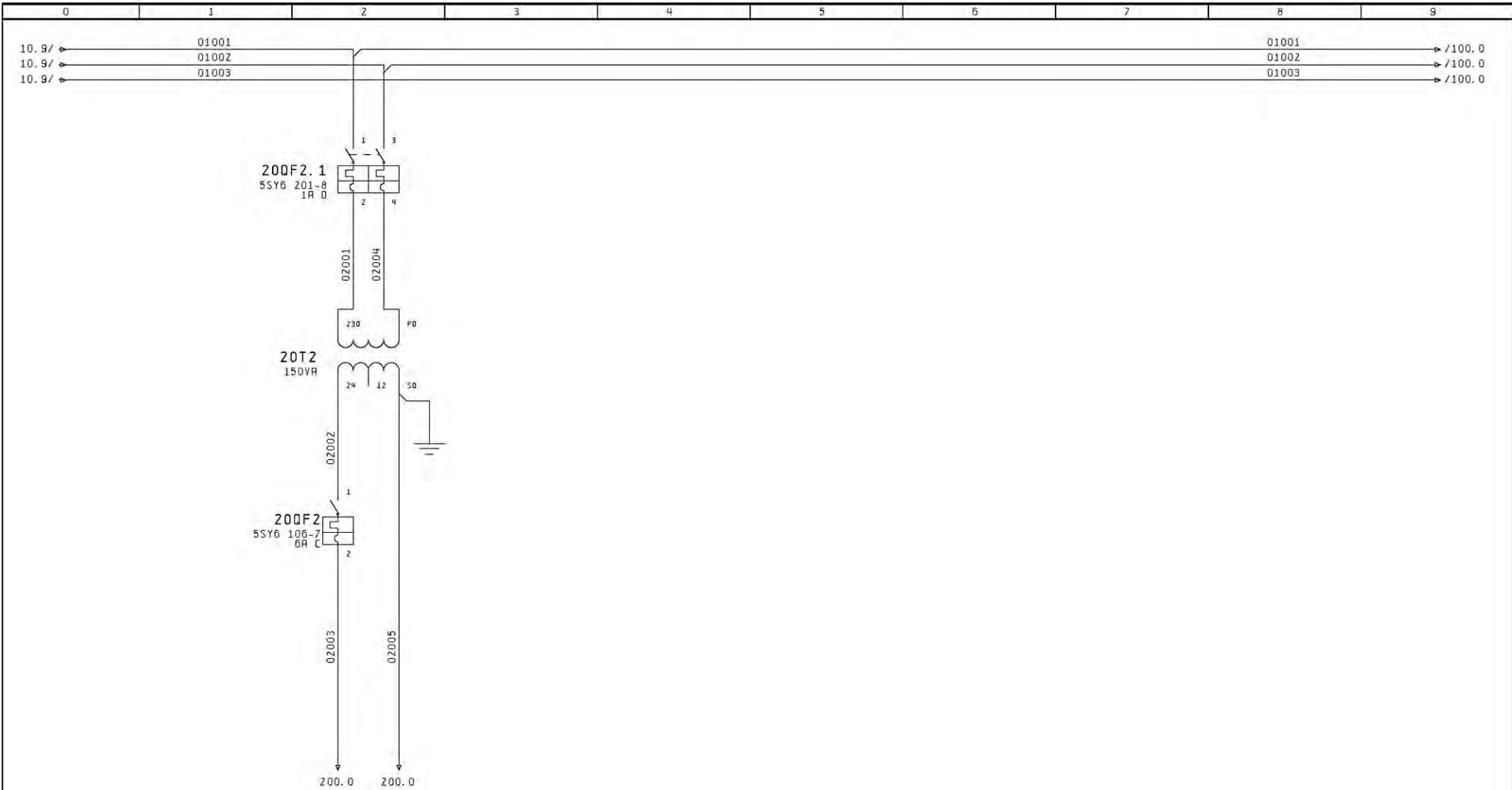
POWER SUPPLY
 220 Vac - 60 Hz

Emission date	03. Feb. 2009	Circuit:
Draftsman	CES	POWER CIRCUIT
Revision		
Revision date		



Plant:	VERTICAL CLEANER MAIN CABINET
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OLE	Drawing number:	LV TOP 1642-13	Sheet	10
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	EPLAN 5.75.3			

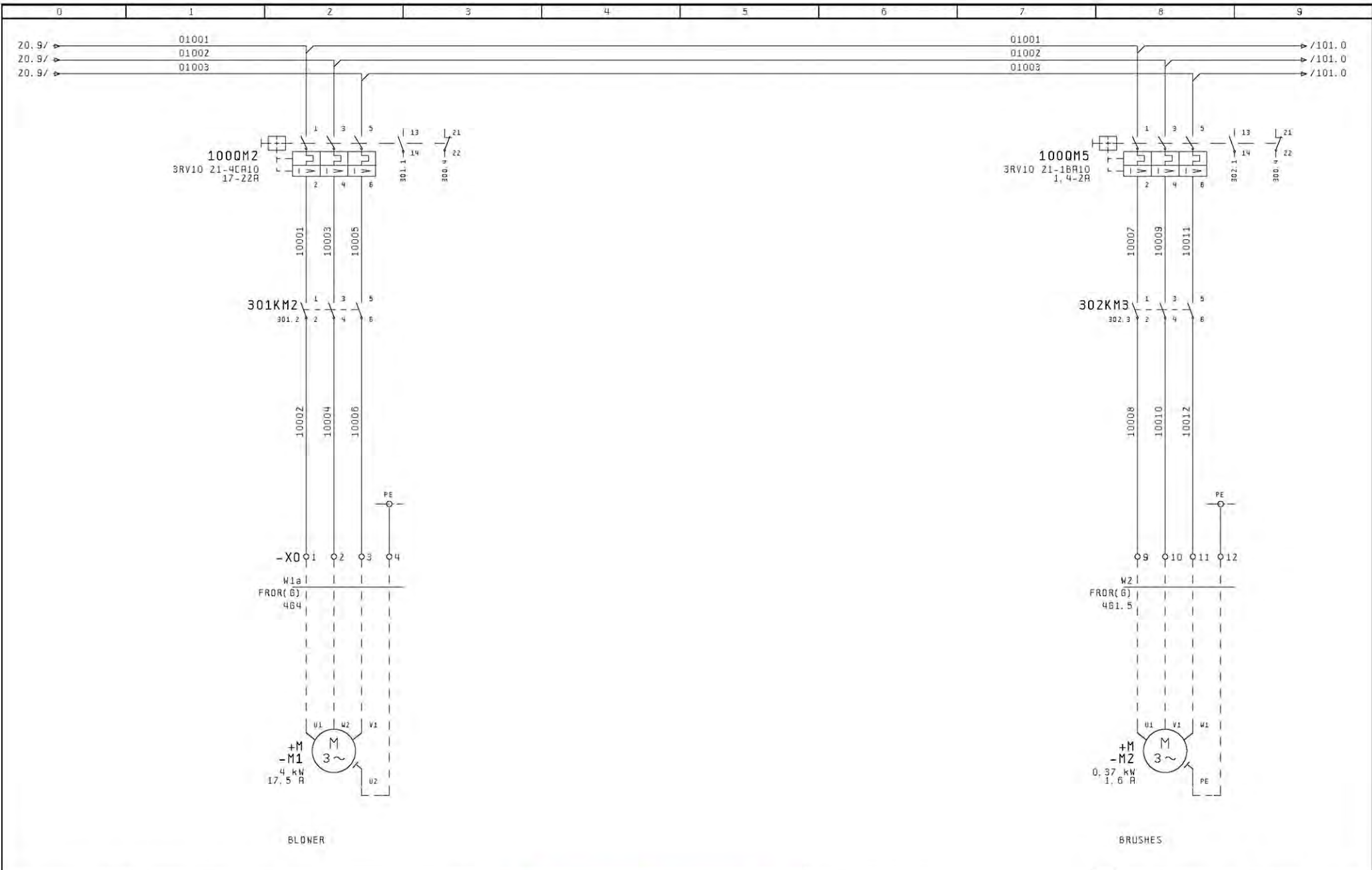


Emission date	03. Feb. 2009	Circuit: AUXILIARY TRANSFORMER
Draftsman	CES	
Revision		
Revision date		



Plant:	VERTICAL CLEANER MAIN CABINET
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EPLAN	Drawing number:	LV TOP 1642-13	Sheet	20
	Job:	34-08	Next	100
	EPLAN 5.75.3			



Emission date 03.Feb.2009
 Draftsman CES
 Revision
 Revision date

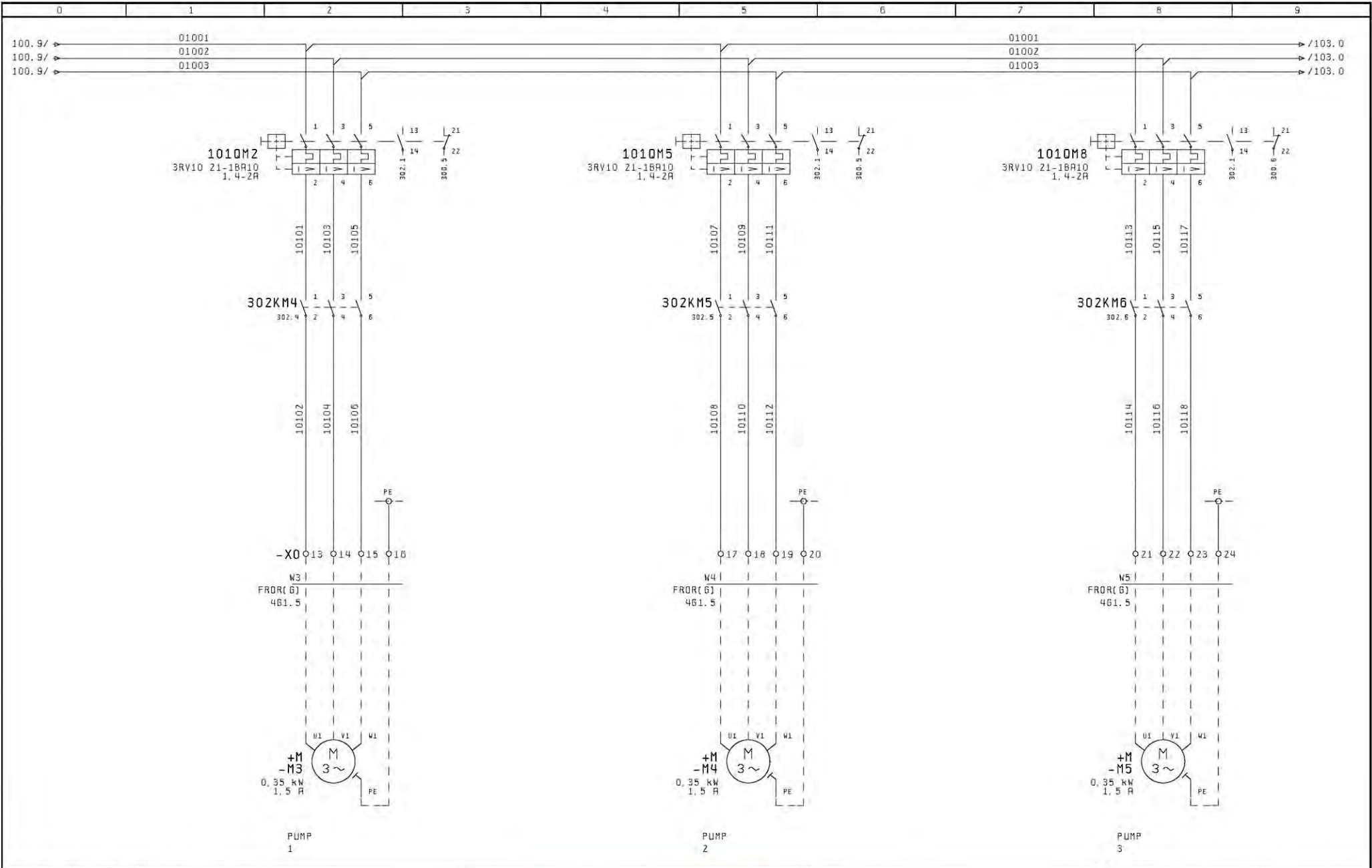
Circuit:
 POWER CIRCUIT



Plant:
 VERTICAL CLEANER
 MAIN CABINET

Drawing number:
 LV TOP 1642-13
 Job:
 34-08
 EPLAN 5.75.3

Sheet 100
 Next 101



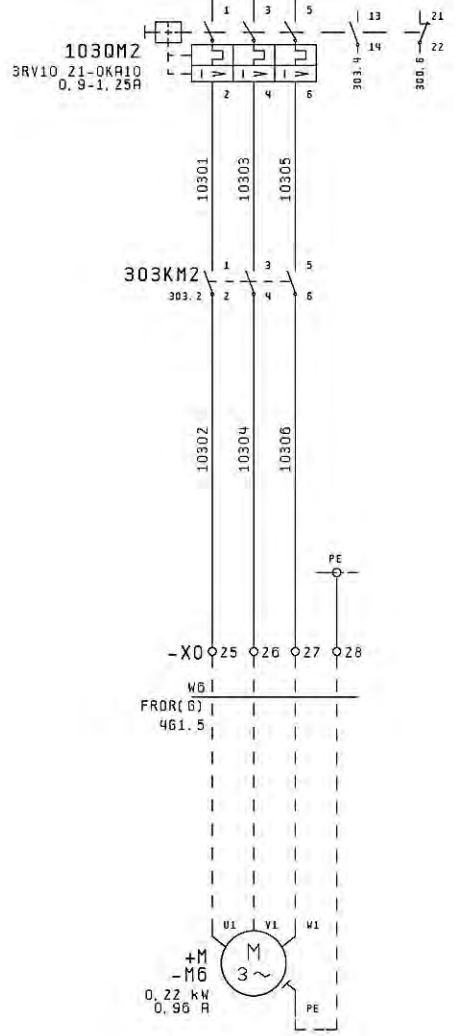
Emission date	03. Feb. 2009	Circuit:
Draftsman	CES	POWER CIRCUIT
Revision		
Revision date		



Plant:	VERTICAL CLEANER MAIN CABINET
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Drawing number:	LV TOP 1642-13	Sheet	101
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EPLAN	5.75.3		

101.9/	01001		01001	/108.0
101.9/	01002		01002	/108.0
101.9/	01003		01003	/108.0



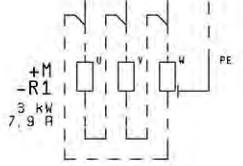
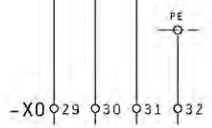
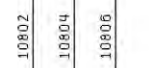
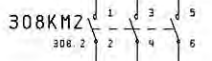
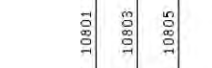
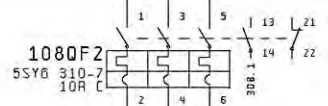
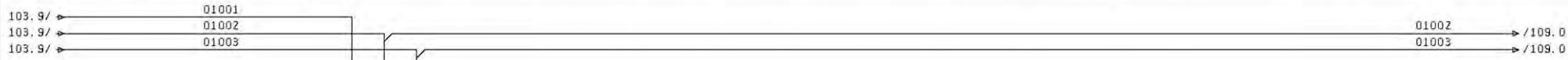
Emission date	03. Feb. 2009
Draftsman	CES
Revision	
Revision date	

Circuit:
POWER CIRCUIT



Plant:
**VERTICAL CLEANER
MAIN CABINET**

CE	Drawing number:	LV TOP 1642-13	Sheet	103
	Job:	34-08	Next	108
	EPLAN	5.75.3		



WATER HEATING RESISTOR

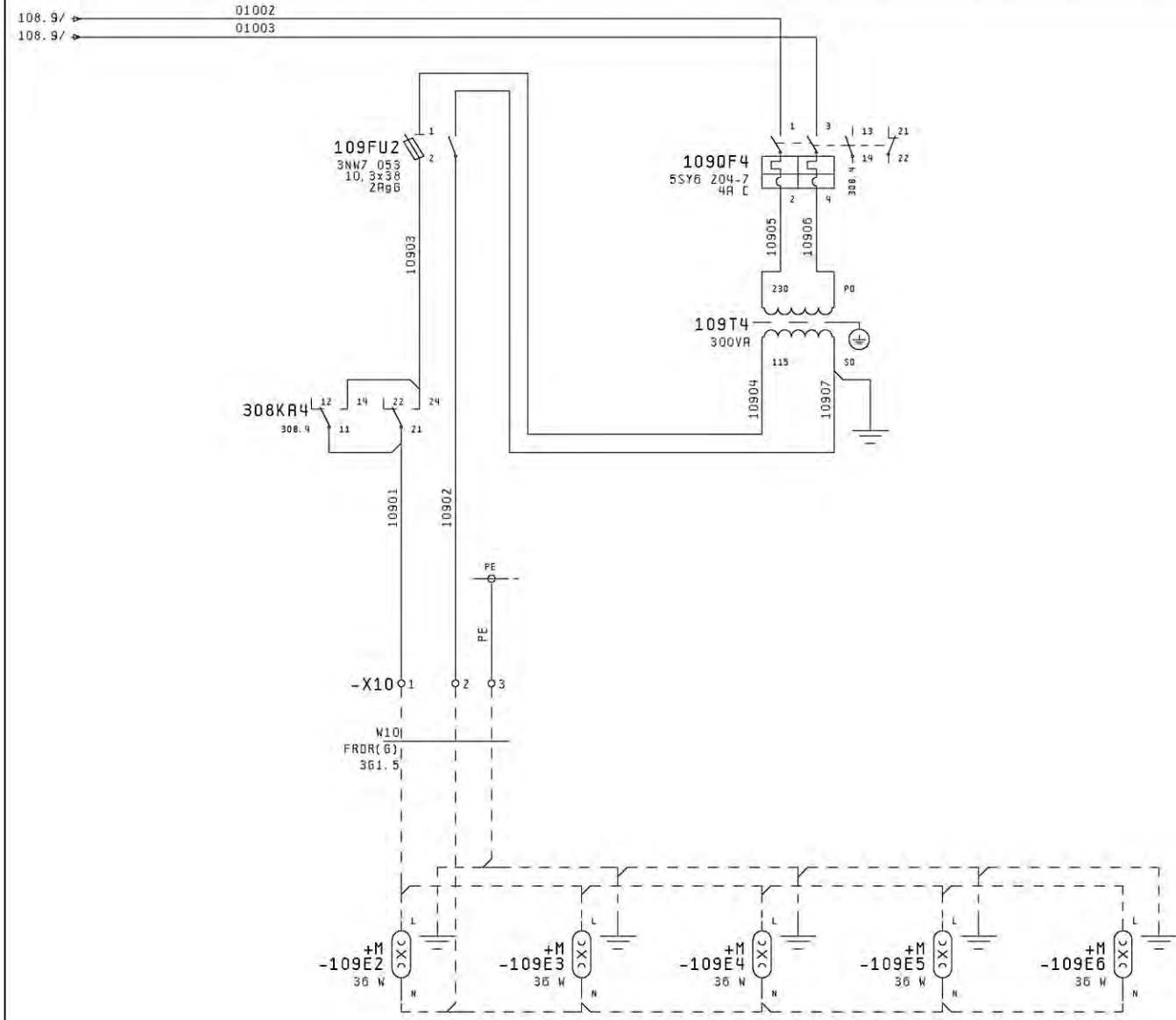
Emission date	03. Feb. 2009
Draftsman	CES
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Revision date	

Circuit:
POWER CIRCUIT



Plant:
**VERTICAL CLEANER
MAIN CABINET**

OE	Drawing number: LV TOP 1642-13	Sheet	108
	Job: 34-08	Next	109
	EPLAN 5.75.3		



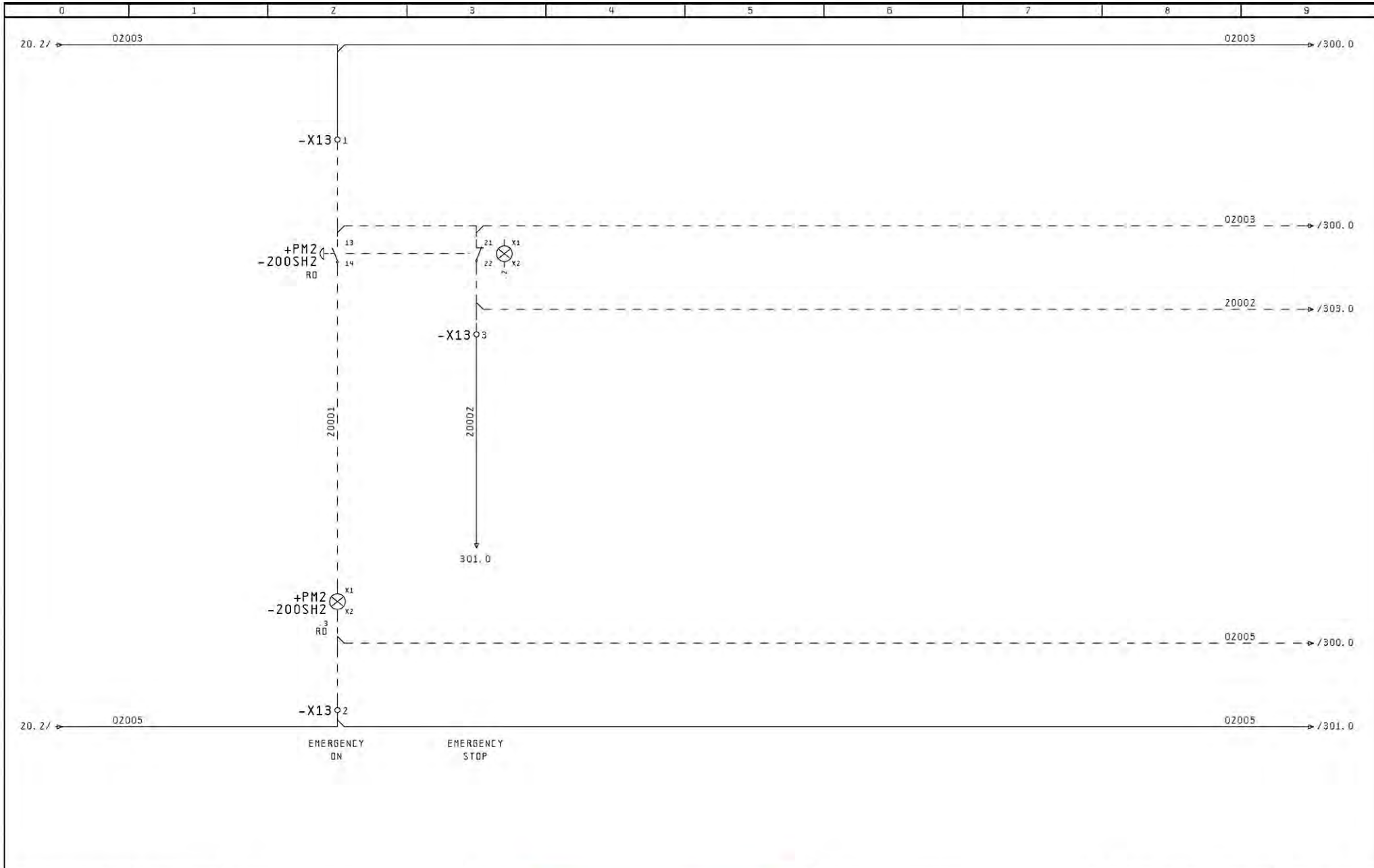
Emission date	03.Feb.2009
Draftsman	CES
Revision	
Revision date	

Circuit:
POWER CIRCUIT



Plant:
VERTICAL CLEANER
MAIN CABINET

OE	Drawing number:	LV TOP 1642-13	Sheet	109
	Job:	34-08	Next	200
	EPLAN 5.75.3			



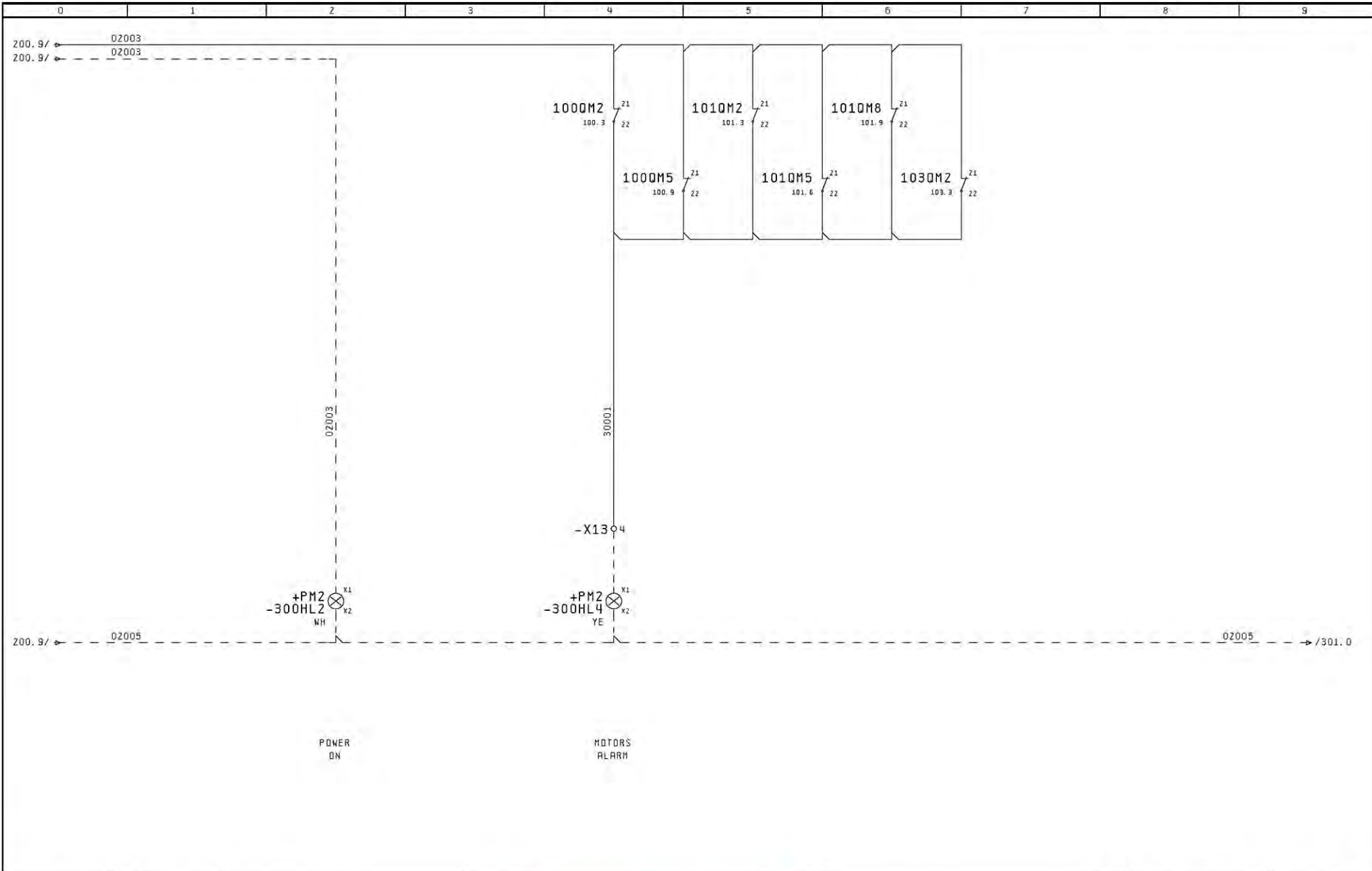
Emission date	03. Feb. 2009
Draftsman	CES
Revision	
Revision date	

Circuit:
EMERGENCY CIRCUIT



Plant:
VERTICAL CLEANER
MAIN CABINET

DE	Drawing number:	LV TOP 1642-13	Sheet	200
	Job:	34-08	Next	300
	EPLAN 5.75.3			

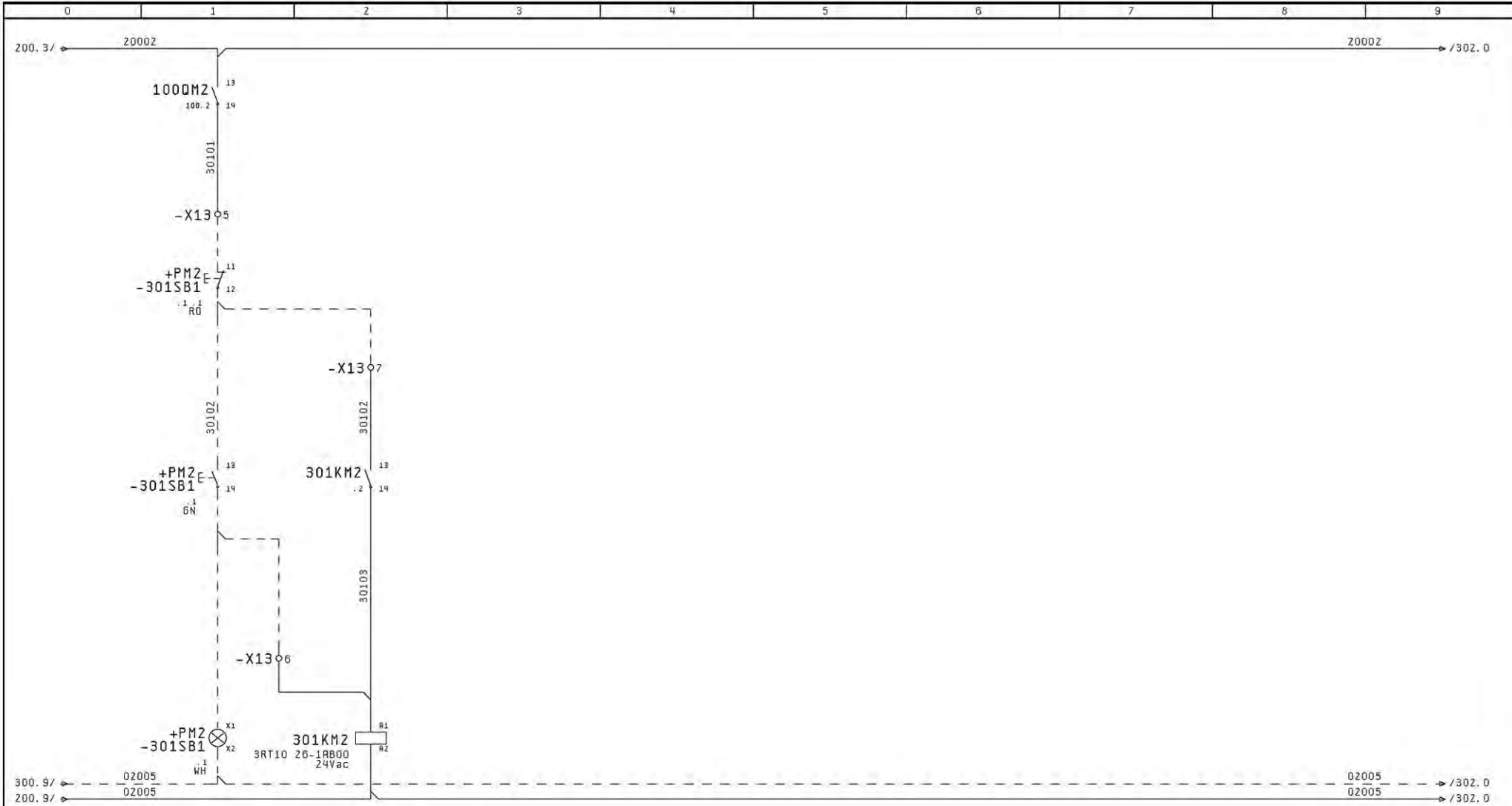


Emission date	03. Feb. 2009	Circuit: AUXILIARY CIRCUITS
Draftsman	CES	
Revision		
Revision date		



Plant:	VERTICAL CLEANER MAIN CABINET
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OE	Drawing number:	LV TOP 1642-13	Sheet	300
	Job:	34-08	Next	301
	EPLAN 5.75.3			



BLOWER
-L-

1	2	100.2
3	4	100.2
5	6	100.2
13	14	.2

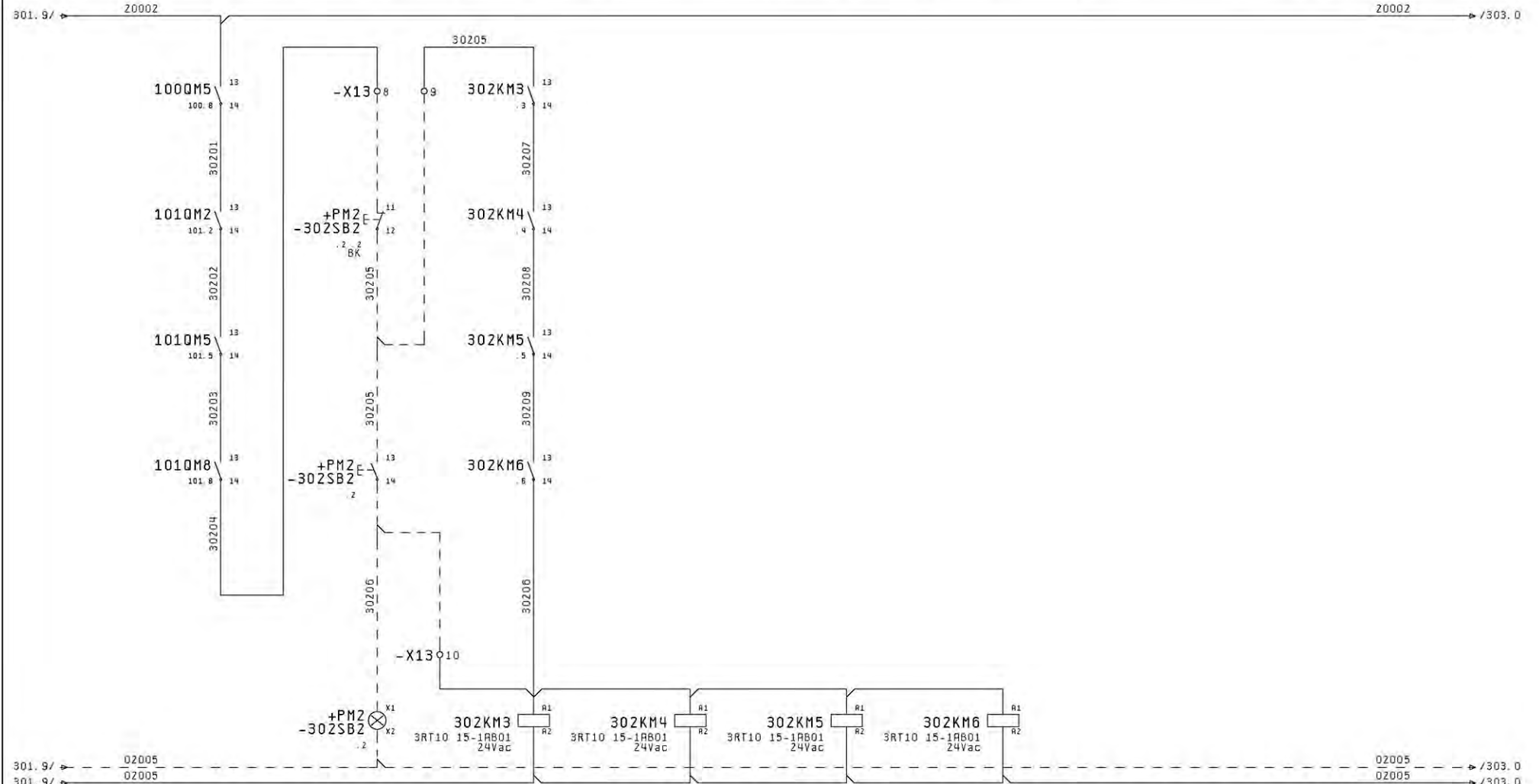
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Draftsman	CES
Revision	
Revision date	

Circuit:
AUXILIARY CIRCUITS



Plant:
VERTICAL CLEANER
MAIN CABINET

OE	Drawing number: LV TOP 1642-13	Sheet 301
	Job: 34-08	Next 302
	EPLAN 5.75.3	



301. 9/	02005								02005	/303. 0
301. 9/	02005								02005	/303. 0
		BRUSHES		PUMP 1		PUMP 2		PUMP 3		
		1 - 2 100. 8		1 - 2 101. 2		1 - 2 101. 5		1 - 2 101. 8		
		3 - 4 100. 8		3 - 4 101. 2		3 - 4 101. 5		3 - 4 101. 8		
		5 - 6 100. 8		5 - 6 101. 2		5 - 6 101. 5		5 - 6 101. 8		
		13 - 14 . 3		13 - 14 . 3		13 - 14 . 3		13 - 14 . 3		

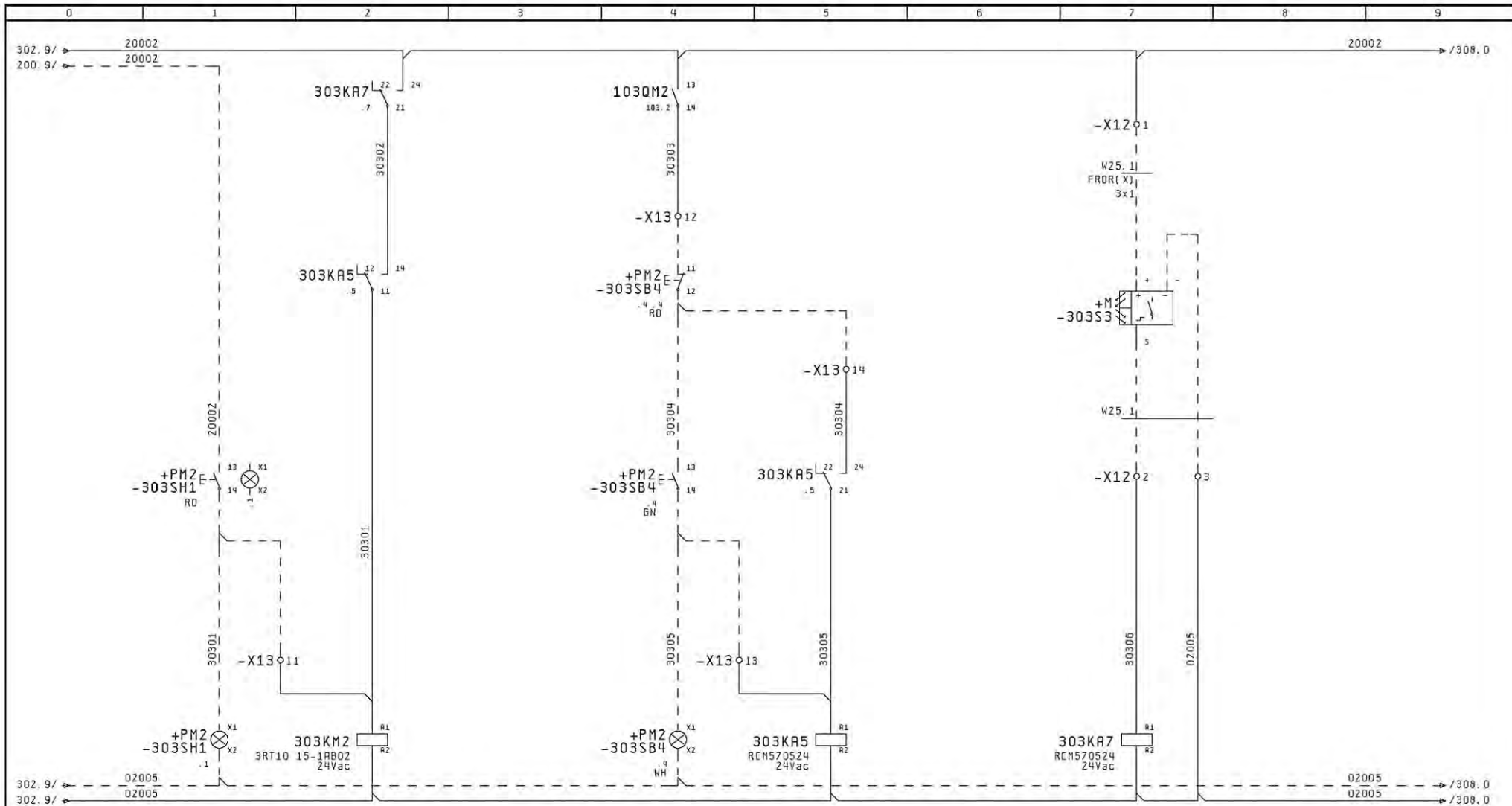
Emission date	03. Feb. 2009
Draftsman	GES
Revision	
Revision date	

Circuit:
AUXILIARY CIRCUITS



Plant:
VERTICAL CLEANER
MAIN CABINET

JOB	Drawing number:	LV TOP 1642-13	Sheet	302
	Job:	34-08	Next	303
	EPLAN	5. 75. 3		



TOWING

1 - 2 103.2
 3 - 4 103.2
 5 - 6 103.2

14 - 11 . 2
 12 - 21 . 5
 24 - 21 . 5

24 - 21 . 2
 22 - 21 . 5

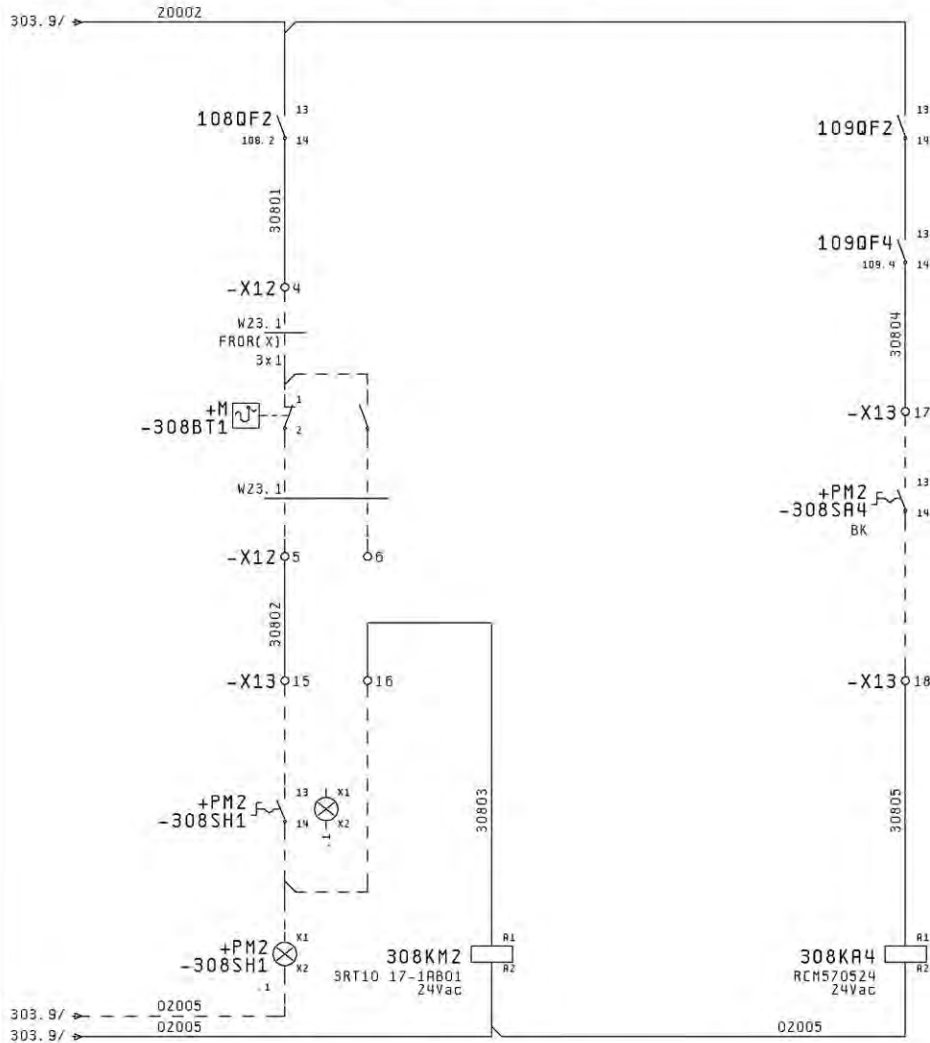
Emission date	03.Feb.2009
Draftsman	LES
Revision	
Revision date	

Circuit:
AUXILIARY CIRCUITS



Plant:
**VERTICAL CLEANER
 MAIN CABINET**

10	Drawing number: LV TOP 1642-13	Sheet	303
	Job: 34-08	Next	308
	EPLAN 5.75.3		



WATER TEMPERATURE

WATER HEATING RESISTOR

1 2 108.2
3 4 108.2
5 6 108.2

LIGHTS

14 11 109.1
12 21 109.2
24 21 109.2
22 21 109.2

Emission date	03. Feb. 2009
Draftsman	CES
Revision	
Revision date	

Circuit:
AUXILIARY CIRCUITS



Plant:
VERTICAL CLEANER
MAIN CABINET

DE	Drawing number: LV TOP 1642-13	Sheet	308
	Job: 34-08	Next	1000
	EPLAN 5.75.3		

TERMINAL BOARD AND CONNECTOR CONNECTION

Terminal
board
or connector
+QE-XO



Wire number	Terminal number	Connection	SECTION (mm²)	Description :	Page/ column
10002	1	o	4	BLOWER	/100.2
10004	2	o	4	=	/100.2
10006	3	o	4	=	/100.2
PE	4	o	4-PE	=	/100.2
10008	9	o	4	BRUSHES	/100.8
10010	10	o	4	=	/100.8
10012	11	o	4	=	/100.8
PE	12	o	4-PE	=	/100.8
10102	13	o	4	PUMP 1	/101.2
10104	14	o	4	=	/101.2
10106	15	o	4	=	/101.2
PE	16	o	4-PE	=	/101.2
10108	17	o	4	PUMP 2	/101.5
10110	18	o	4	=	/101.5
10112	19	o	4	=	/101.5
PE	20	o	4-PE	=	/101.5
10114	21	o	4	PUMP 3	/101.8
10116	22	o	4	=	/101.8
10118	23	o	4	=	/101.8
PE	24	o	4-PE	=	/101.8
10302	25	o	4	TOWING	/103.2
10304	26	o	4	=	/103.2
10306	27	o	4	=	/103.2
PE	28	o	4-PE	=	/103.2
10802	29	o	4	WATER HEATING RESISTOR	/108.2
10804	30	o	4	=	/108.2
10806	31	o	4	=	/108.2
PE	32	o	4-PE	=	/108.2

Emission date	03. Feb. 2009	Circuit:
Draftsman	CES	+QE-XO
Revision		POWER CIRCUIT
Revision date		



Plant:	VERTICAL CLEANER MAIN CABINET
Job:	34-08
EPLAN	5.75.3

Drawing number:	LV TOP 1642-13	Sheet	1100
Job:	34-08	Next	1101
EPLAN	5.75.3		

TERMINAL BOARD AND CONNECTOR CONNECTION

Terminal board or connector

+QE-X1



Wire number	Terminal number	Connection	SECTION (mm ²)	Description :	Page/column
L1	1	o	6		/10.1
L2	2	o	6		/10.1
L3	3	o	6	POWER SUPPLY	/10.1
	4	o	6	=	/10.1

Emission date	03. Feb. 2009
Draftsman	CES
Revision	
Revision date	

Circuit:	+QE-X1
	LINE ENTRY



Plant:	VERTICAL CLEANER MAIN CABINET
--------	-------------------------------

Drawing number:	LV TOP 1642-13	Sheet	1101
Job:	34-08	Next	1102
EPLAN	5.75.3		

TERMINAL BOARD AND CONNECTOR CONNECTION

Terminal
board
or connector

+QE-X10



Wire number	Terminal number	Connection	SECTION (mm²)	Description :	Page/ column
10901	1	o	2,5		/109.2
10902	2	σ	2,5		/109.2
	3	o	2,5-PE		/109.2

Emission date	03. Feb. 2009	Circuit:
Draftsman	CES	+QE-X10
Revision		AUXILIARY CIRCUITS 230Vac
Revision date		



Plant:	VERTICAL CLEANER MAIN CABINET
DE	

Drawing number:	LV TOP 1642-13	Sheet	1102
Job:	34-08	Next	1103
EPLAN	5.75.3		

TERMINAL BOARD AND CONNECTOR CONNECTION

Terminal
board
or connector
+QE-X12



Wire number	Terminal number	Connection	SECTION (mm²)	Description :	Page/ column
20002	1	o	2.5	TOWING	/303.7
30306	2	o	2.5	=	/303.7
02005	3	o	2.5	=	/303.7
30801	4	o	2.5	WATER TEMPERATURE	/308.1
30802	5	o	2.5	=	/308.1
	6	o	2.5	=	/308.1

Emission date	03.Feb.2009	Circuit: +QE-X12 AUXILIARY CIRCUITS 24Vac
Draftsman	CES	
Revision		
Revision date		



Plant:	VERTICAL CLEANER MAIN CABINET
--------	----------------------------------

QE	Drawing number:	LV TOP 1642-13	Sheet	1103
	Job:	34-08	Next	1104
	EPLAN	5.75.3		

TERMINAL BOARD AND CONNECTOR CONNECTION

Terminal
board
or connector
+QE-X13



Wire number	Terminal number	Connection	SECTION (mm ²)	Description ;	Page/column
02003	1	o	2.5	EMERGENCY ON	/200.2
02005	2	o	2.5	=	/200.2
20002	3	o	2.5	EMERGENCY STOP	/200.3
30001	4	o	2.5	MOTORS ALARM	/300.4
30101	5	o	2.5		/301.1
30103	6	o	2.5		/301.1
30102	7	o	2.5	BLOWER -L-	/301.2
30204	8	o	2.5		/302.2
30205	9	o	2.5		/302.2
30206	10	o	2.5		/302.2
30301	11	o	2.5	TOWING	/303.1
30303	12	o	2.5	=	/303.4
30305	13	o	2.5	=	/303.4
30304	14	o	2.5	=	/303.5
30802	15	o	2.5	WATER TEMPERATURE	/308.1
30803	16	o	2.5	=	/308.1
30804	17	o	2.5	LIGHTS	/308.4
30805	18	o	2.5	=	/308.4

Emission date	03. Feb. 2009
Draftsman	CES
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Revision date	

Circuit:	+QE-X13
	LOCAL PANEL



Plant:	VERTICAL CLEANER MAIN CABINET
--------	----------------------------------

QE	Drawing number:	LV TOP 1642-13	Sheet	1104
	Job:	34-08	Next	2000
	EPLAN 5.75.3			

SUMMARY OF THE CABLE

Cable name Designazione cavo	Start from	Destination to	Type of cable	Number Cond.	Section mm ² AWG	Conductor used	Description	Position - Page
+QE-W2	4X0	+M-M2	FROR(G)	46	1.5	46	BRUSHES	/2101
+QE-W3	-X0	+M-M3	FROR(G)	46	1.5	46	PUMP 1	/2102
+QE-W4	-X0	+M-M4	FROR(G)	46	1.5	46	PUMP 2	/2103
+QE-W5	-X0	+M-M5	FROR(G)	46	1.5	46	PUMP 3	/2104
+QE-W6	-X0	+M-M6	FROR(G)	46	1.5	46	TOWING	/2105
+QE-W8	-X0	+M-R1	FROR(G)	46	2.5	46	WATER HEATING RESISTOR	/2106
+QE-W10	-X10	+M-109E2	FROR(G)	36	1.5	36		/2107
+QE-W1a	-X0	+M-M1	FROR(G)	46	4	46	BLOWER	/2110
+QE-W23.1	-X12	+M-308BT1	FROR(X)	3	1	3	WATER TEMPERATURE	/2108
+QE-W25.1	-X12	+M-303S3	FROR(X)	3	1	3	TOWING	/2109

Emission data 03. Feb. 2009
 Draftsman CES
 Revision
 Revision date

Circuit:
CABLE SUMMARY



Plant:
VERTICAL CLEANER
MAIN CABINET

Drawing number:
LV TOP 1642-13
Job:
34-08
EPLAN 5.75.3
Sheet 2000
Next: 2101

CABLE CONNECTION DIAGRAM

+Location-Cable name +QE-W2	Type FROR(G)	N° OF CONDUCTORS 46	Section 1.5	Lenght -
Note: BRUSHES				

Description	Page/ column	Connection from	Pin	Cond.	WIRE	Connection to	Pin	Page/ column	Description
BRUSHES	/100.8	-X0	9	BK	10008	+M-M2	U1	/100.8	BRUSHES
BRUSHES	/100.8	-X0	10	BU	10010	+M-M2	V1	/100.8	BRUSHES
BRUSHES	/100.8	-X0	11	BN	10012	+M-M2	W1	/100.8	BRUSHES
BRUSHES	/100.8	-X0	12	YG	PE	+M-M2	PE	/100.8	BRUSHES

Emission date	03. Feb. 2009	Circuit:	CABLE CONNECTIONS DIAGRAM
Draftsman	CES		
Revision			
Revision date			



Plant:	VERTICAL CLEANER MAIN CABINET
Job:	

Drawing number:	LV TOP 1642-13	Sheet	2101
Job:		Next	2102
EPLAN		5.75.3	

CABLE CONNECTION DIAGRAM

+Location-Cable name +QE-W4		Type FROR(G)	N° OF CONDUCTORS 46			Section 1.5 Length —			
		Note	PUMP 2						
Description	Page/ column	Connection from	Pin	Cond.	WIRE	Connection to	Pin	Page/ column	Description
PUMP 2	/101.5	-X0	17	BK	10108	+M-N4	U1	/101.5	PUMP 2
PUMP 2	/101.5	-X0	18	BU	10110	+M-N4	V1	/101.5	PUMP 2
PUMP 2	/101.5	-X0	19	BN	10112	+M-N4	W1	/101.5	PUMP 2
PUMP 2	/101.5	-X0	20	YG	PE	+M-N4	PE	/101.5	PUMP 2

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CABLE CONNECTION DIAGRAM

+Location-Cable name +QE-W5		Type FROR(G)	N° OF CONDUCTORS 46			Section 1.5		Length	-	
		Note	PUMP 3							
Description	Page/ column	Connection from	Pin	Cond.	WIRE	Connection to	Pin	Page/ column	Description	
PUMP 3	/101.8	-X0	21	BK	10114	+H-N5	U1	/101.8	PUMP 3	
PUMP 3	/101.8	-X0	22	BU	10116	+H-N5	V1	/101.8	PUMP 3	
PUMP 3	/101.8	-X0	23	BN	10118	+H-N5	W1	/101.8	PUMP 3	
PUMP 3	/101.8	-X0	24	Y6	PE	+H-N5	PE	/101.8	PUMP 3	

CABLE CONNECTION DIAGRAM

+Location-Cable name +QE-W6	Type FROR(G)	N° OF CONDUCTORS 46	Section 1.5	Lenght -	
Note TOWING					

Description	Page/ column	Connection from	Pin	Cond.	WIRE	Connection to	Pin	Page/ column	Description
TOWING	/103.2	-X0	25	BK	10302	+M-M6	U1	/103.2	TRAIN0
TOWING	/103.2	-X0	26	BU	10304	+M-M6	V1	/103.2	TRAIN0
TOWING	/103.2	-X0	27	BN	10306	+M-M6	W1	/103.2	TRAIN0
TOWING	/103.2	-X0	28	YG	PE	+M-M6	PE	/103.2	TRAIN0

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CABLE CONNECTION DIAGRAM

+Location-Cable name +QE-W8	Type FROR(G)	N° OF CONDUCTORS 46	Section 2.5 Length -
	Note WATER HEATING RESISTOR		

Description	Page/ column	Connection from	Pin	Cond.	WIRE	Connection to	Pin	Page/ column	Description
WATER HEATING RESISTOR	/108.2	-X0	29	BK	10802	+M-R1	U	/108.2	WATER HEATING RESISTOR
WATER HEATING RESISTOR	/108.2	-X0	30	BU	10804	+M-R1	V	/108.2	WATER HEATING RESISTOR
WATER HEATING RESISTOR	/108.2	-X0	31	BN	10806	+M-R1	W	/108.2	WATER HEATING RESISTOR
WATER HEATING RESISTOR	/108.2	-X0	32	YG	PE	+M-R1	PE	/108.2	WATER HEATING RESISTOR

CABLE CONNECTION DIAGRAM

+Location-Cable name +QE-W10	Type FROR(G) Note		N° OF CONDUCTORS 36			Section 1.5 Length -			
Description	Page/ column	Connection from	Pin	Cond.	WIRE	Connection to	Pin	Page/ column	Description
	/109.2	-X10	1	BU	10901	+M-109E2		L /109.2	
	/109.2	-X10	2	BN	10902	+M-109E2		N /109.2	
	/109.2	-X10	3	YG		+M-109E2		/109.2	

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CABLE CONNECTION DIAGRAM

+Location-Cable name

+QE-W23.1

Type

FROR(X)

N° OF CONDUCTORS 3

Section 1 Length -

Note

WATER TEMPERATURE

Description	Page/ column	Connection from	Pin	Cond.	WIRE	Connection to	Pin	Page/ column	Description
WATER TEMPERATURE	/308.1	-X12	4	1	30801	+M-308BT1	1	/308.1	WATER TEMPERATURE
WATER TEMPERATURE	/308.1	-X12	5	2	30802	+M-308BT1	2	/308.1	WATER TEMPERATURE
WATER TEMPERATURE	/308.1	-X12	6	3		+M-308BT1		/308.1	WATER TEMPERATURE

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CABLE CONNECTION DIAGRAM

+Location-Cable name +QE-W25.1		Type FROR(X)	N° OF CONDUCTORS 3			Section 1	Length -			
Note TOWING										
Description	Page/ column	Connection from	Pin	Cond.	WIRE	Connection to	Pin	Page/ column	Description	
TOWING	/303.7	-X12	1	1	20002	+M-303S3	+	/303.7	TRAINO	
TOWING	/303.7	-X12	2	2	30306	+M-303S3	S	/303.7	TRAINO	
TOWING	/303.7	-X12	3	3	02005	+M-303S3	-	/303.7	TRAINO	

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CABLE CONNECTION DIAGRAM

+Location-Cable name +QE-W1a	Type FROR(G) Note BLOWER	N° OF CONDUCTORS 46				Section 4	Length -		
Description	Page/ column	Connection from	Pin	Cond.	WIRE	Connection to	Pin	Page/ column	Description
BLOWER	/100.2	-X0	1	BK	10002	+M-M1	U1	/100.2	BLOWER
BLOWER	/100.2	-X0	2	BU	10004	+M-M1	W2	/100.2	BLOWER
BLOWER	/100.2	-X0	3	BN	10006	+M-M1	V1	/100.2	BLOWER
BLOWER	/100.2	-X0	4	Y6	PE	+M-M1	U2	/100.2	BLOWER

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Item	Q. TY	Code	Description	Type	Builder	
+PNZ-200SH2	1	35830011CA21	PULS LUM SBLOC TRZ/AZ SCATTO ROSSO	35830 01-1CA21	SIEMENS	
+PNZ-200SH2	1	35834000C	BLOCCO CONTATTO INC	35834 00-0C	SIEMENS	
+PNZ-200SH2	1	35834000B	BLOCCO CONTATTO IND	35834 00-0B	SIEMENS	
+PNZ-200SH2	1	35834001PE	LED BIANCO 24Vac/dc	35834 00-1PE	SIEMENS	
+PNZ-300HL2	1	35830016AA00	GEMMA LUMINOSA BIANCA D. 22	35830 01-6AA00	SIEMENS	
+PNZ-300HL2	1	35834001PE	LED BIANCO 24Vac/dc	35834 00-1PE	SIEMENS	
+PNZ-300HL4	1	35830016AA30	GEMMA LUMINOSA GIALLA D. 22	35830 01-6AA30	SIEMENS	
+PNZ-300HL4	1	35834001PA	CORPO LED GIALLO 24Vac/dc	35834 00-1PA	SIEMENS	
+PNZ-301SB1	1	35831018BC21	PULSANTE DOPPIO LUMINOSO VERDE ROSSO CON SIMBOLOGIA I/O	35831 01-8BC21	SIEMENS	
+PNZ-301SB1	1	35834000C	BLOCCO CONTATTO INC	35834 00-0C	SIEMENS	
+PNZ-301SB1	1	35834000B	BLOCCO CONTATTO IND	35834 00-0B	SIEMENS	
+PNZ-301SB1	1	35834001PE	LED BIANCO 24Vac/dc	35834 00-1PE	SIEMENS	
+PNZ-302SB2	1	35831018BC21	PULSANTE DOPPIO LUMINOSO VERDE ROSSO CON SIMBOLOGIA I/O	35831 01-8BC21	SIEMENS	
+PNZ-302SB2	1	35834000C	BLOCCO CONTATTO INC	35834 00-0C	SIEMENS	
+PNZ-302SB2	1	35834000B	BLOCCO CONTATTO IND	35834 00-0B	SIEMENS	
+PNZ-302SB2	1	35834001PE	LED BIANCO 24Vac/dc	35834 00-1PE	SIEMENS	
+PNZ-303SB4	1	35831018BC21	PULSANTE DOPPIO LUMINOSO VERDE ROSSO CON SIMBOLOGIA I/O	35831 01-8BC21	SIEMENS	
+PNZ-303SB4	1	35834000C	BLOCCO CONTATTO INC	35834 00-0C	SIEMENS	
+PNZ-303SB4	1	35834000B	BLOCCO CONTATTO IND	35834 00-0B	SIEMENS	
+PNZ-303SB4	1	35834001PE	LED BIANCO 24Vac/dc	35834 00-1PE	SIEMENS	
+PNZ-303SH1	1	35830010AA21	TESTA PULSANTE LUMINOSO ROSSO	35830 01-0AA21	SIEMENS	
+PNZ-303SH1	1	35834000B	BLOCCO CONTATTO IND	35834 00-0B	SIEMENS	
+PNZ-303SH1	1	35834001PB	CORPO LED ROSSO 24Vac/dc	35834 00-1PB	SIEMENS	
+PNZ-308SA4	1	35830002KA11	TESTA SELETTORE 0-1 NERO	35830 00-2KA11	SIEMENS	
+PNZ-308SA4	1	35834000B	BLOCCO CONTATTO IND	35834 00-0B	SIEMENS	
+PNZ-308SH1	1	35830012KA71	SELETTORE LUMINOSO BIANCO 2 POSIZIONI FISSE	35830 01-2KA71	SIEMENS	
+PNZ-308SH1	1	35834000B	BLOCCO CONTATTO IND	35834 00-0B	SIEMENS	
+PNZ-308SH1	1	35834001PE	LED BIANCO 24Vac/dc	35834 00-1PE	SIEMENS	
+DE-X0	21	1020100000	MORSETTO PASSANTE 4mm	WDU 4	WEIDMULLER	
+DE-X0	7	1010100000	MORSETTO DI TERRA 4mm	WPE 4	WEIDMULLER	
+DE-X1	3	1020200000	MORSETTO PASSANTE 6mm	WDU 6	WEIDMULLER	
+DE-X1	1	1010200000	MORSETTO DI TERRA 6mm	WPE 6	WEIDMULLER	
+DE-X10	2	1020000000	MORSETTO PASSANTE 2,5mm	WDU 2.5	WEIDMULLER	
+DE-X10	1	1010000000	MORSETTO DI TERRA 2,5mm	WPE 2.5	WEIDMULLER	
+DE-X12	6	1020000000	MORSETTO PASSANTE 2,5mm	WDU 2.5	WEIDMULLER	
+DE-X13	9	1021500000	MORSETTO A DUE PIANI 2,5mm	WDK 2.5	WEIDMULLER	
+DE-100S1	1	3L022130TK53	SEZIONATORE SOTTOCARICO 3 POLI 32A	3L02 213-0TK53	SIEMENS	
+DE-200F2	1	5SY61067	INTERRUTTORE MAGNETOTERMICO 1 POLO 6A	Icc 6kA CURVA C	5SY6 106-7	SIEMENS
+DE-200F2.1	1	5SY62018	INTERRUTTORE MAGNETOTERMICO 2 POLI 1A	Icc 6kA CURVA D	5SY6 201-8	SIEMENS
+DE-20T2	1	ST15024E	TRASFORMATORE MONOFASE 150 VA	Vp 230/400V - Vs 12/24V	ST15024E	BTS
+DE-1000M2	1	3RV10214CA10	INTERRUTTORE 3 POLI 25A Range 17-22A	GR. SO Icc 50kA	3RV10 21-4CA10	SIEMENS
+DE-1000M2	1	3RV19011E	CONTATTI AUSILIARI FRONTALI INC+IND	PER INTERRUTTORI 3RV DA SOO FINO A S3	3RV1 9011-E	SIEMENS
+DE-1000M5	1	3RV10211BA10	INTERRUTTORE 3 POLI 25A Range 1,4-2A	GR. SO Icc 100kA	3RV10 21-1BA10	SIEMENS
+DE-1000M5	1	3RV19011E	CONTATTI AUSILIARI FRONTALI INC+IND	PER INTERRUTTORI 3RV DA SOO FINO A S3	3RV1 9011-E	SIEMENS
+DE-1010M2	1	3RV10211BA10	INTERRUTTORE 3 POLI 25A Range 1,4-2A	GR. SO Icc 100kA	3RV10 21-1BA10	SIEMENS
+DE-1010M2	1	3RV19011E	CONTATTI AUSILIARI FRONTALI INC+IND	PER INTERRUTTORI 3RV DA SOO FINO A S3	3RV1 9011-E	SIEMENS
+DE-1010M5	1	3RV10211BA10	INTERRUTTORE 3 POLI 25A Range 1,4-2A	GR. SO Icc 100kA	3RV10 21-1BA10	SIEMENS
+DE-1010M5	1	3RV19011E	CONTATTI AUSILIARI FRONTALI INC+IND	PER INTERRUTTORI 3RV DA SOO FINO A S3	3RV1 9011-E	SIEMENS
+DE-1010M8	1	3RV10211BA10	INTERRUTTORE 3 POLI 25A Range 1,4-2A	GR. SO Icc 100kA	3RV10 21-1BA10	SIEMENS
+DE-1010M8	1	3RV19011E	CONTATTI AUSILIARI FRONTALI INC+IND	PER INTERRUTTORI 3RV DA SOO FINO A S3	3RV1 9011-E	SIEMENS

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Item	Q. TY	Code	Description	Type	Builder
+DE-103QM2	1	3RV10210KA10	INTERRUTTORE 3 POLI 25A Range 0,9-1,25A	3RV10 21-0KA10	SIEMENS
+DE-103QM2	1	3RV19011E	CONTATTI AUSILIARI FRONTALI 1NC+1NO	3RV1 9011-E	SIEMENS
+DE-1080F2	1	5SY63107	INTERRUTTORE MAGNETOTERMICO 3 POLI 10A	5SY6 310-7	SIEMENS
+DE-1080F2	1	5ST3010	CONTATTO AUSILIARIO 1NO+1NC	5ST 301-0	SIEMENS
+DE-109FU2	1	3NW7053	SEZIONATORE PORTAFUSIBILI 1 POLO+NEUTRO	3NW7 053	SIEMENS
+DE-1090F4	1	5SY62047	INTERRUTTORE MAGNETOTERMICO 2 POLI 4A	5SY6 204-7	SIEMENS
+DE-1090F4	1	5ST3010	CONTATTO AUSILIARIO 1NO+1NC	5ST 301-0	SIEMENS
+DE-109T4	1	ST300115	TRASFORMATORE MONOFASE 300VA	ST300115	GTS
+DE-301KM2	1	3RT10171AB01	CONTATTORE AUSILIARIO	3RT10 17-1AB01	SIEMENS
+DE-302KM3	1	3RT10151AB01	CONTATTORE AUSILIARIO	3RT10 15-1AB01	SIEMENS
+DE-302KM4	1	3RT10151AB01	CONTATTORE AUSILIARIO	3RT10 15-1AB01	SIEMENS
+DE-302KM5	1	3RT10151AB01	CONTATTORE AUSILIARIO	3RT10 15-1AB01	SIEMENS
+DE-302KM6	1	3RT10151AB01	CONTATTORE AUSILIARIO	3RT10 15-1AB01	SIEMENS
+DE-303KA5	1	8690110000	RELE COMPATTO 24Vac 6A	RCM 570524	WEIDMULLER
+DE-303KA5	1	8690900000	ZOCCELO 4 SCAMBI SCH 4CO		WEIDMULLER
+DE-303KA7	1	8690110000	RELE COMPATTO 24Vac 6A	RCM 570524	WEIDMULLER
+DE-303KA7	1	8690900000	ZOCCELO 4 SCAMBI SCH 4CO		WEIDMULLER
+DE-303KM2	1	3RT10151AB01	CONTATTORE AUSILIARIO	3RT10 15-1AB01	SIEMENS
+DE-308KA4	1	8690110000	RELE COMPATTO 24Vac 6A	RCM 570524	WEIDMULLER
+DE-308KA4	1	8690900000	ZOCCELO 4 SCAMBI SCH 4CO		WEIDMULLER
+DE-308KM2	1	3RT10171AB01	CONTATTORE AUSILIARIO	3RT10 17-1AB01	SIEMENS

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