



SISTER
SEMICONDUCTOR
EQUIPMENT GMBH

-SSE-
Josef-Schüttler-Str. 2
78224 Singen
Phone +49 (7731) 189-0

Customer	GE Healthcare				
Plant designation	WET PROCESS SPINNER				
Drawing number	77004				
Commission	KA0911 / 77004				
Manufacturer (company)	-SSE-				
Path					
Project name	wetST60 20081103				
Make	OPTIwet				
Type	ST60				
Place of installation					
Responsible for project					
Part feature	C-DIAS, ARS2310				
Edit date	01.04.2009	by (short name)	hschmidt	Number of pages	31

Date	01.04.2009	KA0911 / 77004	-SSE-	COVER PAGE	=
Ed. by	hschmidt				+
Appr		WET PROCESS SPINNER			
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GENERAL DATA

MAIN VOLTAGE 3 AC 400V+N+PE, 50-60Hz

RATED POWER / -CURRENT 1,8kW / 8A

PRESAFETY FUSE 16A

CONTROL VOLTAGE 24V DC

OTHER POWER -

ADDITIONAL INFORMATION

WIRING

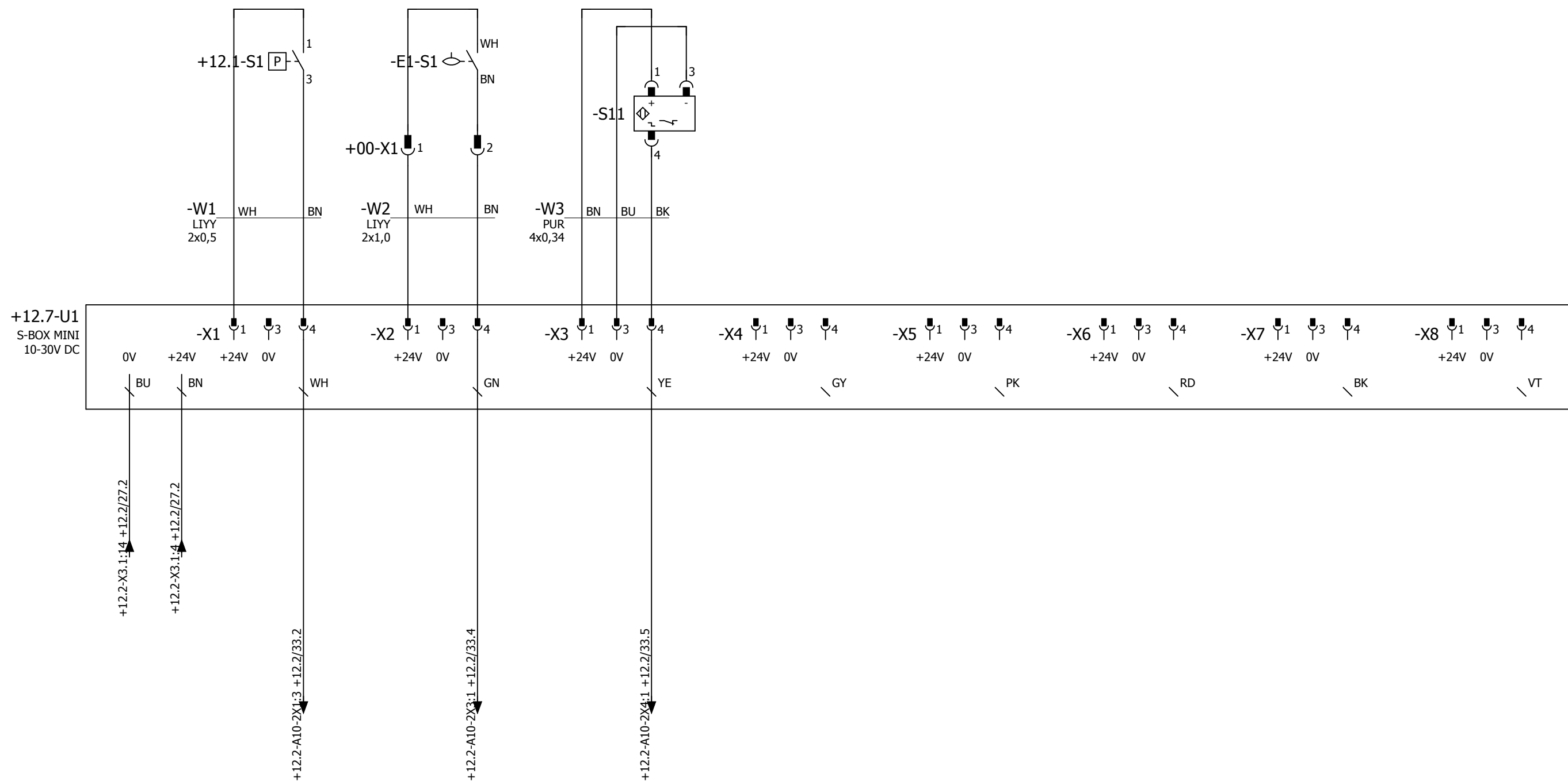
	IEC/EN 60204-1		NFPA79	
	WIRE COLOR	CROSS-SECTION [mm ²]	WIRE COLOR	CROSS-SECTION [AWG]
<u>MAIN CIRCUIT</u>				
EXTERNAL CONDUCTOR	BLACK	1,5	BLACK	12
NEUTRAL LEADER	BLUE	1,5	WHITE	12
PROTECTIVE CONDUKTOR	GREEN/YELLOW	1,5	GREEN/YELLOW	12
<u>CONTROL CIRCUIT</u>				
24V DC	DARK BLUE	0,75	BLUE	18
0V DC	DARK BLUE	0,75	WHITEBLUE	18

Date	17.11.2008	KA0911 / 77004	-SSE-	LEGEND	=	+
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EXHAUST

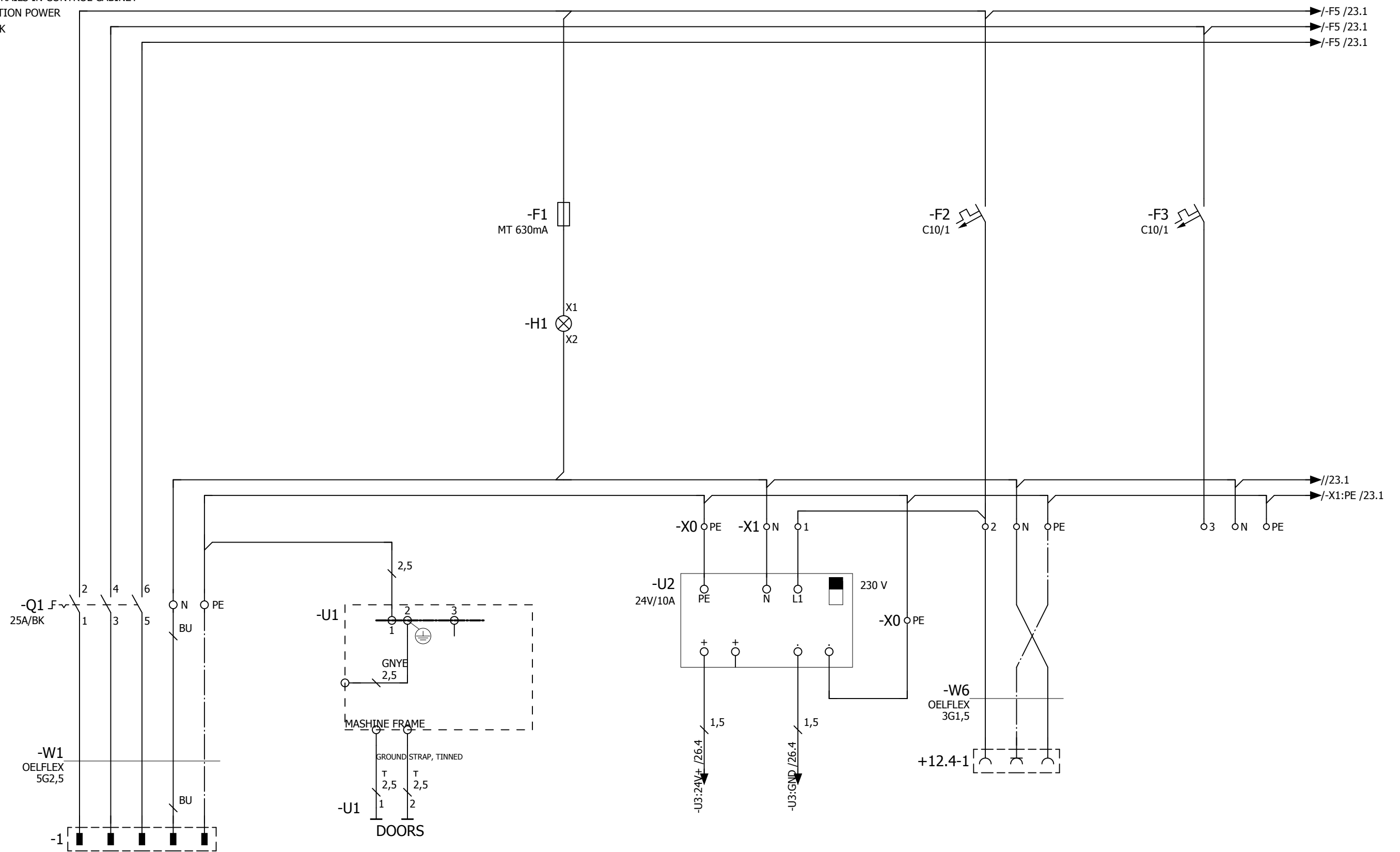
TANK 1

WASTE CANISTER



		Date	23.03.2009	KA0911 / 77004		=	
		Ed. by	hschmidt			+ 00	
		Appr		WET PROCESS SPINNER			
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-X0 = MOUNTIG RAILS IN CONTROL CABINET
 -X1 = DISTRIBUTION POWER
 -X2 = INTERLOCK



POWER SUPPLY UNIT 24V DC

SYSTEM PC

RESERVED

77066 E-TEILE wetST60 (400V) --E--

+. /21

23

		Date	30.03.2009	KA0911 / 77004							
		Ed. by	hschmidt								
		Appr		WET PROCESS SPINNER		-SSE-		SUPPLY			
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-F2 /22.8/-
 -F3 /22.8/-
 -Q1:6 /22.8/-
 -X1:N /22.8/-
 -X1:PE /22.8/-

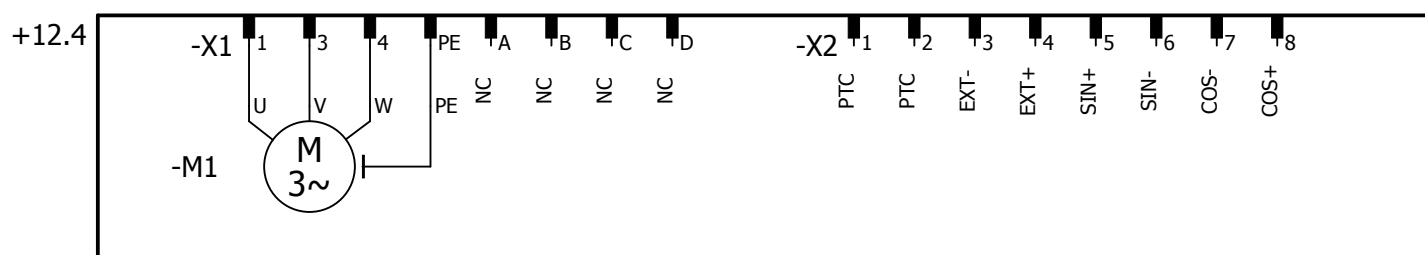
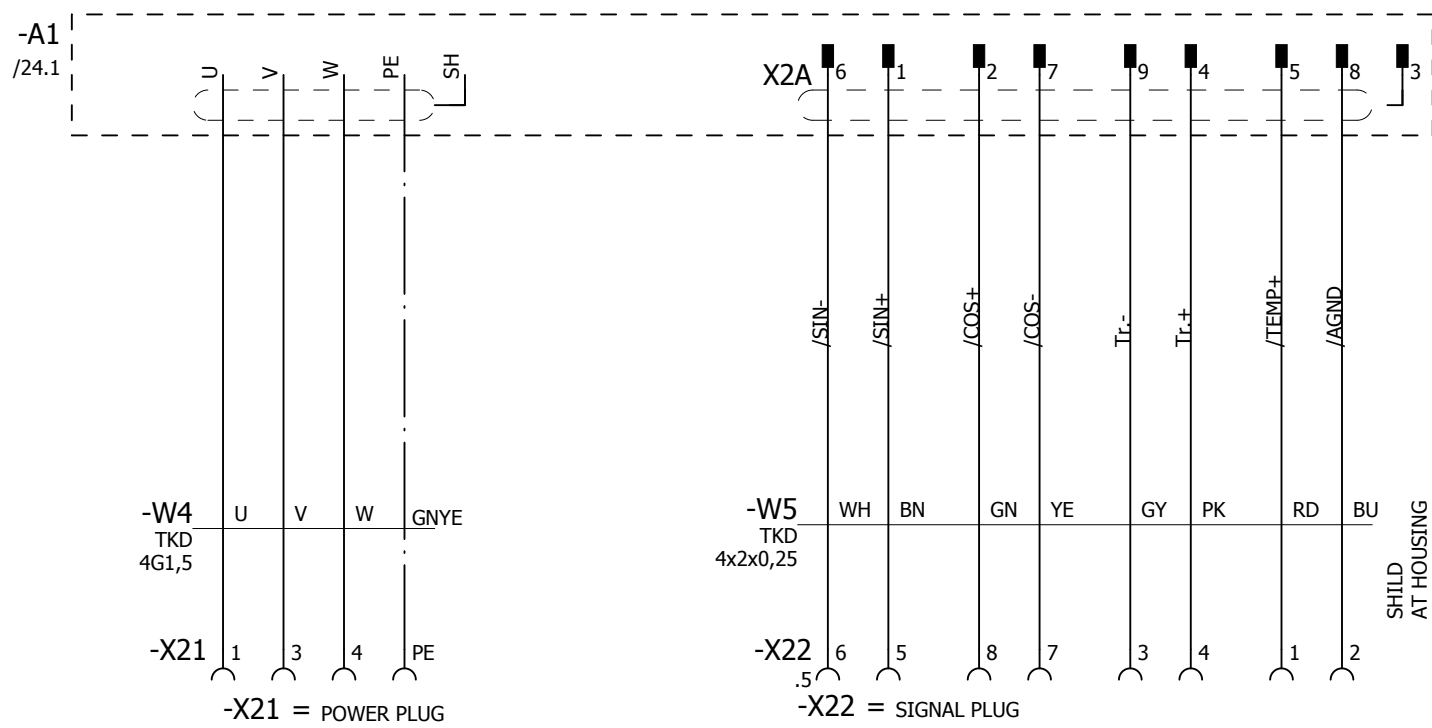
-F5
 C10/3

-A1-X9:1 /24.7
 -A1-X9:2 /24.7
 -A1-X9:3 /24.7
 -A1-X9:9 /24.9

-X1 O PE

SERVO DRIVE

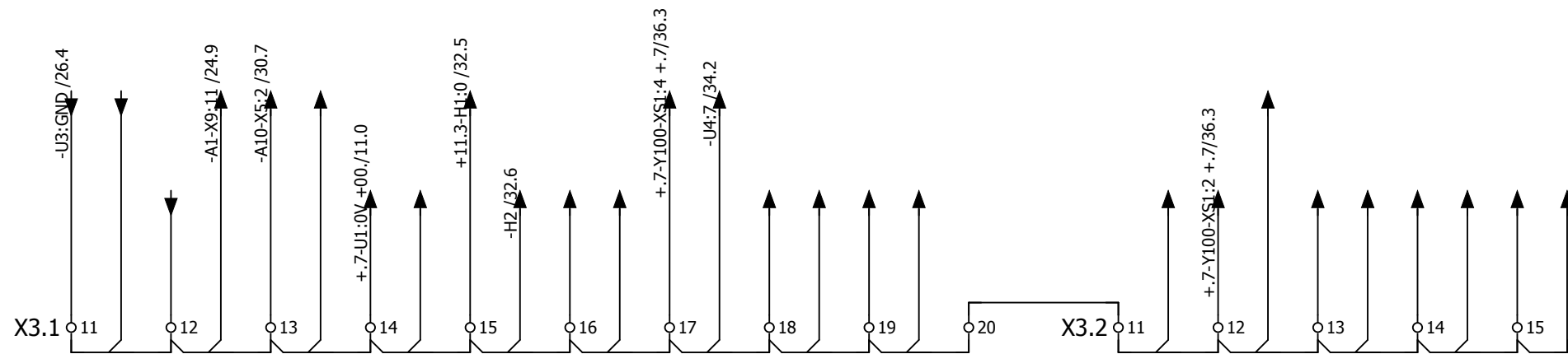
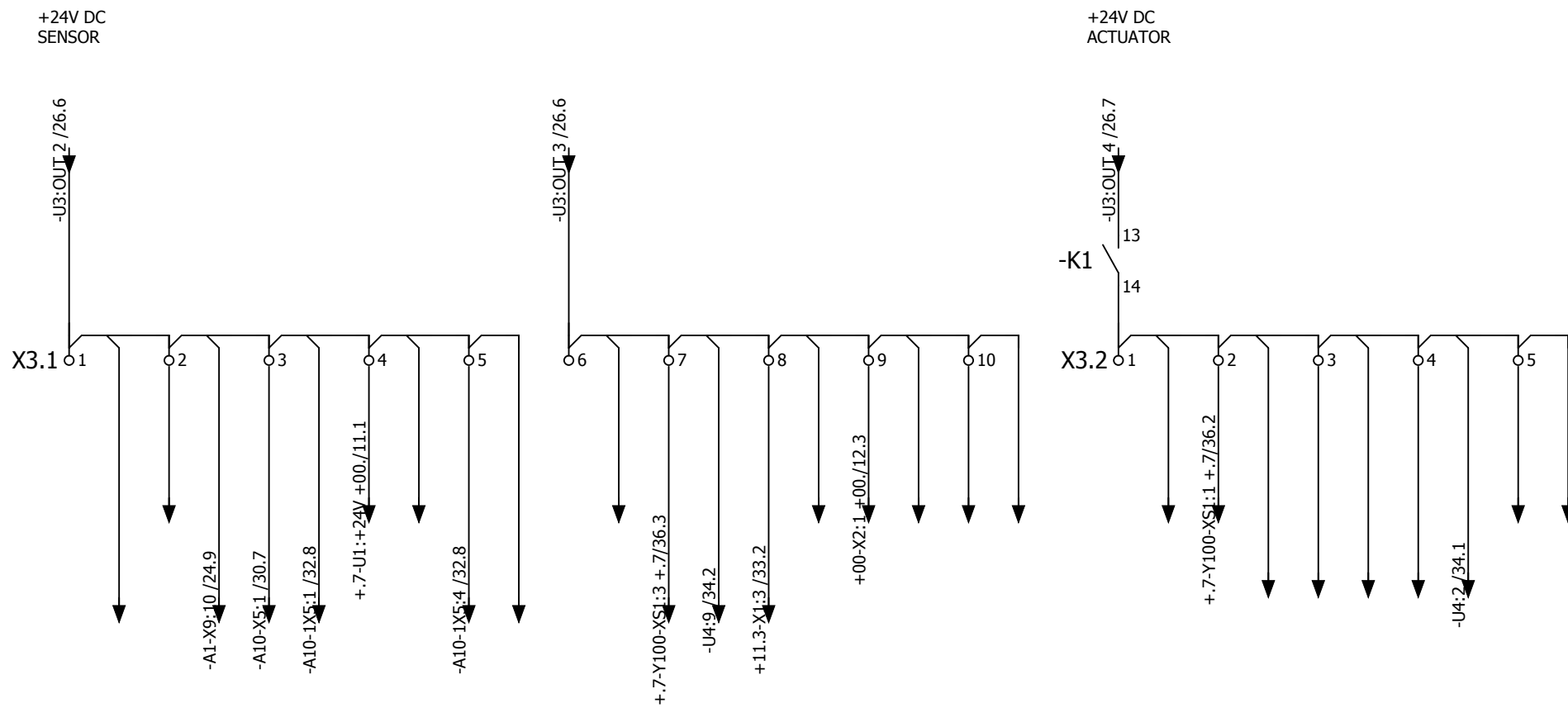
			Date	15.12.2008	KA0911 / 77004	-SSE-	DISTRIBUTION POWER	77004	=	+ 12.2	Page	23
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			Date	15.12.2008	KA0911 / 77004							
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			Appr		WET PROCESS SPINNER		-SSE-		MOTOR CABLE SM140			
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-X3.1 = DISTRIBUTION 24V DC

-X3.2 = DISTRIBUTION 24V DC



0V DC

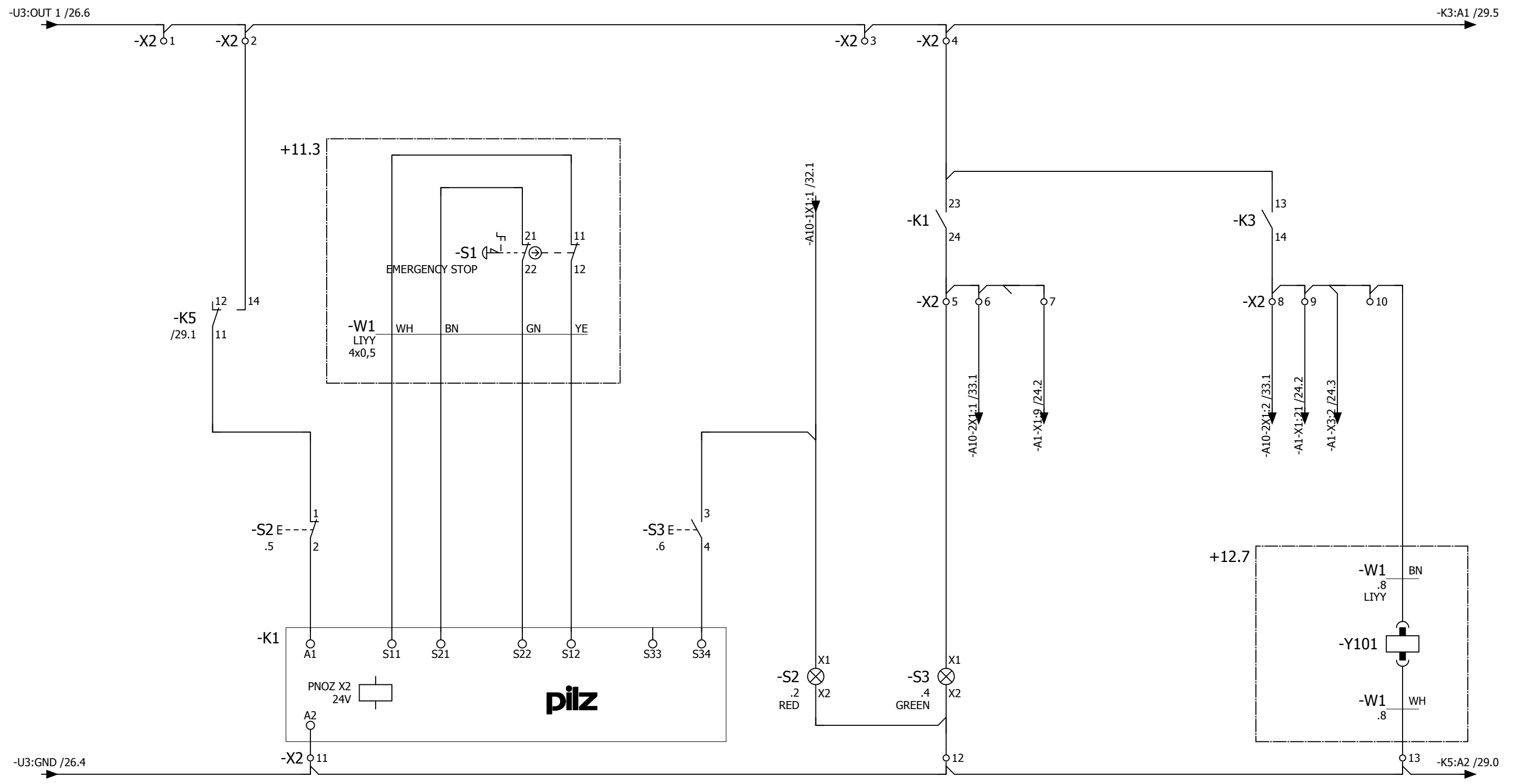
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-SSE-

77004

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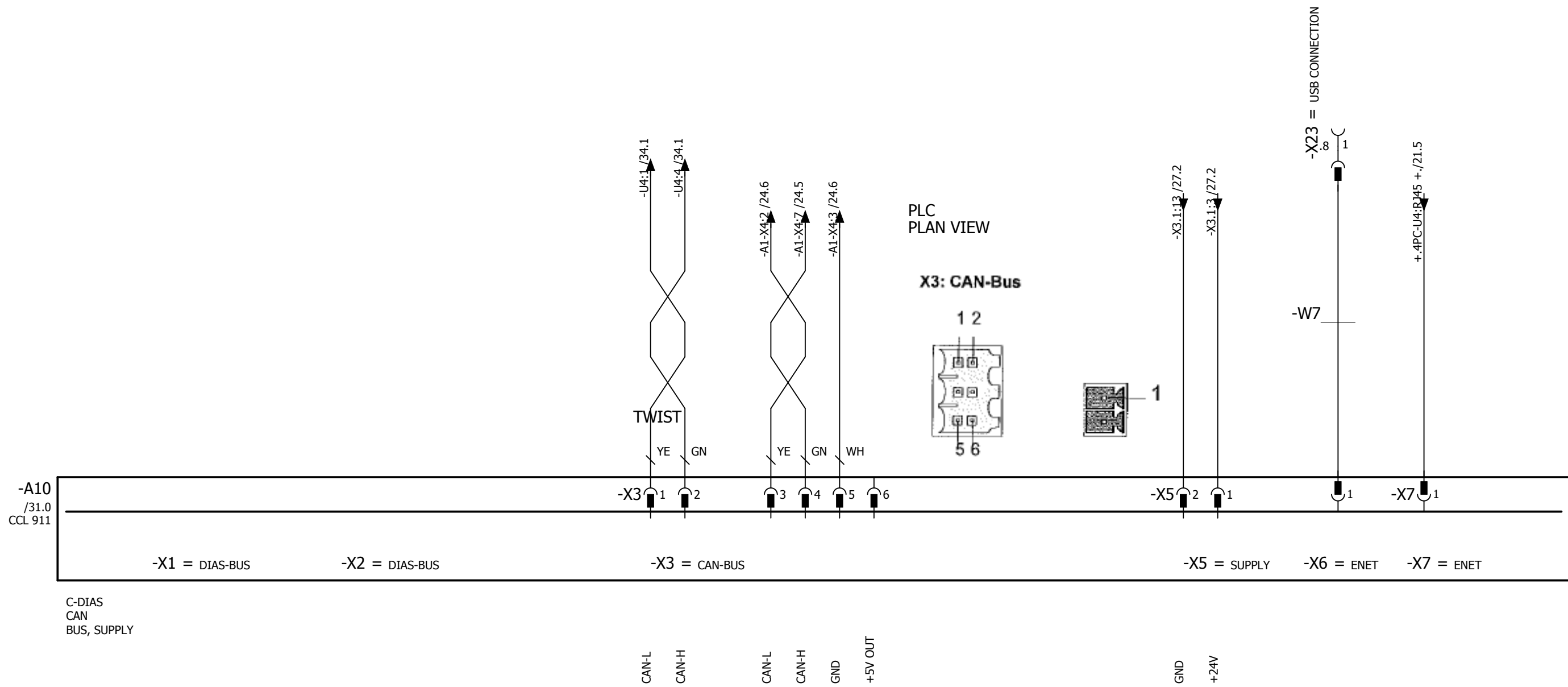
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42956
PNOZ X2
13 - 14 /27.5
23 - 24 .6

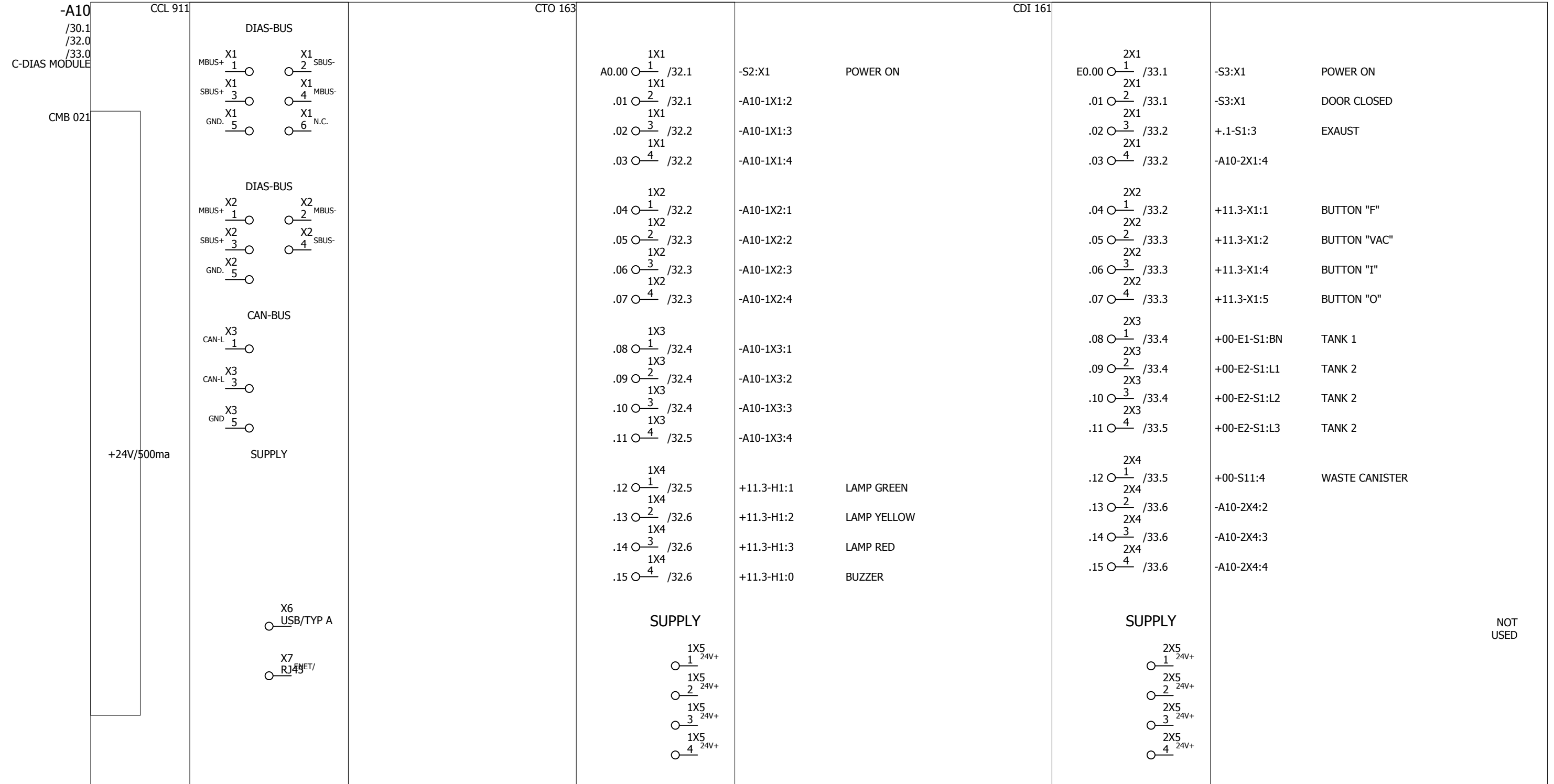


		Date	24.03.2009	KA0911 / 77004		INTERLOCK			
		Ed. by	hschmidt						
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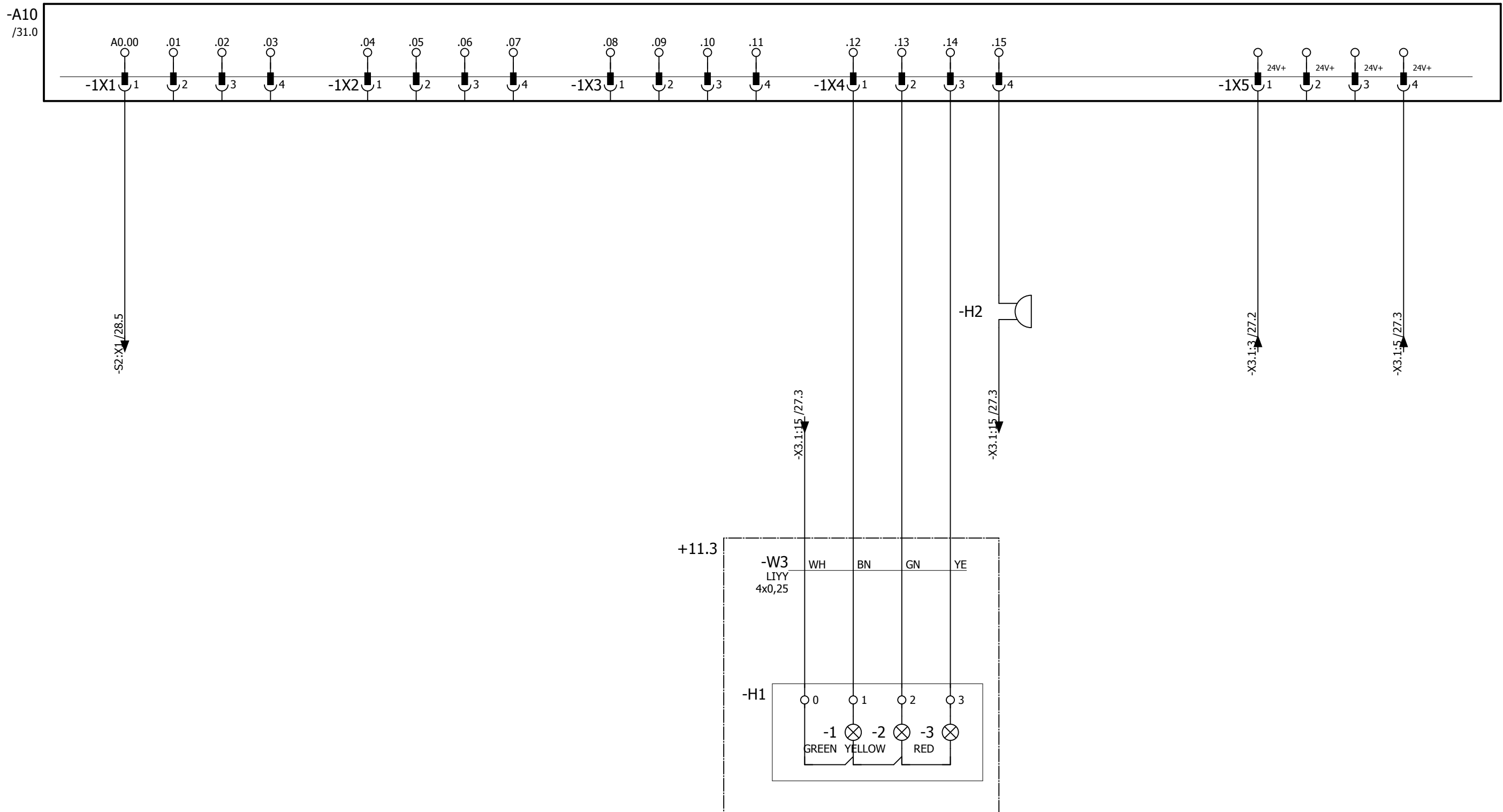


			Date	30.03.2009	KA0911 / 77004	-SSE-	C-DIAS CAN, SUPPLY	=	+ 12.2	77004	Page	30
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PLC MODULE 71073

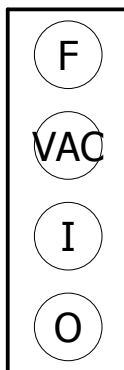
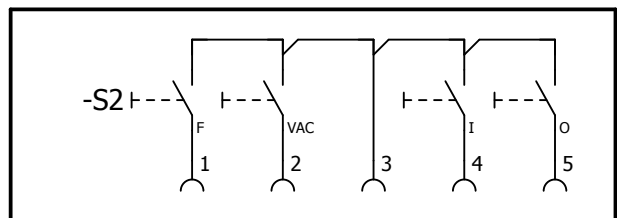


Date	30.03.2009	KA0911 / 77004	-SSE-	C-DIAS, PLC-LAYOUT	=
Ed. by	hschmidt	WET PROCESS SPINNER			+ 12.2
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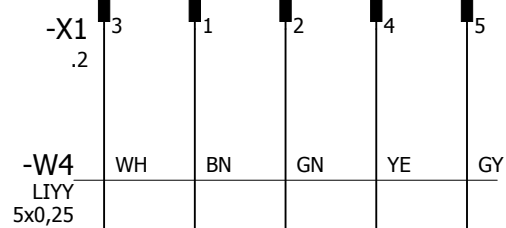


		Date	30.03.2009	KA0911 / 77004		C-DIAS DIGITAL OUTPUTS			
		Ed. by	hschmidt					=	
		Appr		WET PROCESS SPINNER				+ 12.2	
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+11.3



-X1 = KEY BLOCK



-X2:6/28.6

-X2:8/28.8

+7-U1-X1:4 +00/11.1

-X3:1:8/27.4

+7-U1-X1:4 +00/11.2

+00-X2:2 +00/12.4

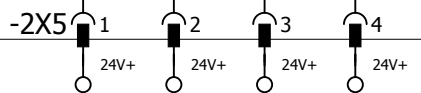
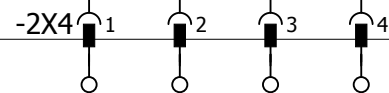
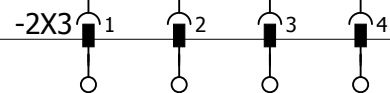
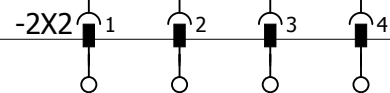
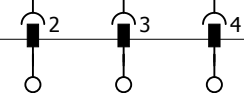
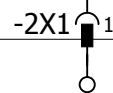
+00-X2:4 +00/12.4

+00-X2:6 +00/12.5

-K5:A1/29.1

+7-U1-X3:4 +00/11.3

-A10 /31.0



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Appr	
Original	

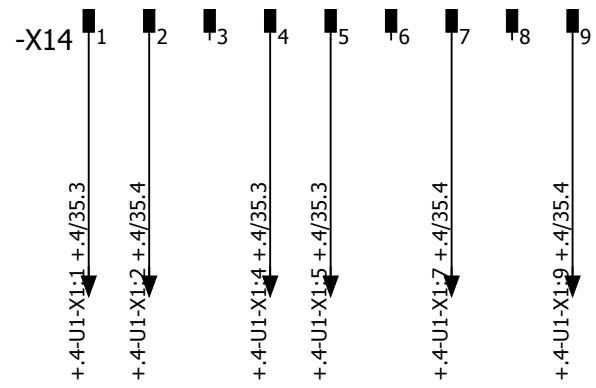
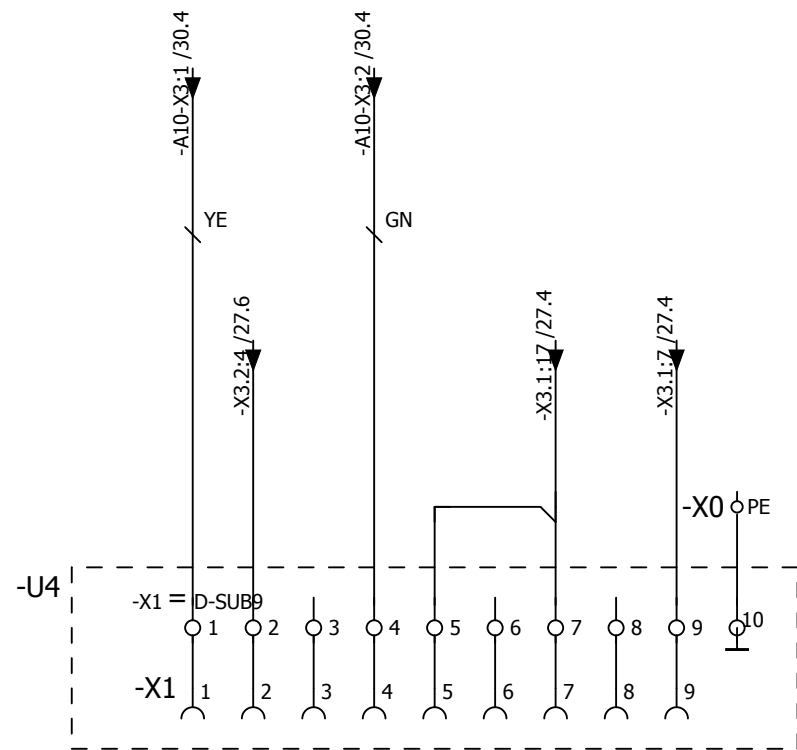
KA0911 / 77004	
WET PROCESS SPINNER	
Replacement for	Replaced by

-SSE-

C-DIAS DIGITAL INPUTS

+ 12.2

77004



CAN-L

CAN-H
CAN-GND

SHIELD

Date	15.12.2008
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Original	

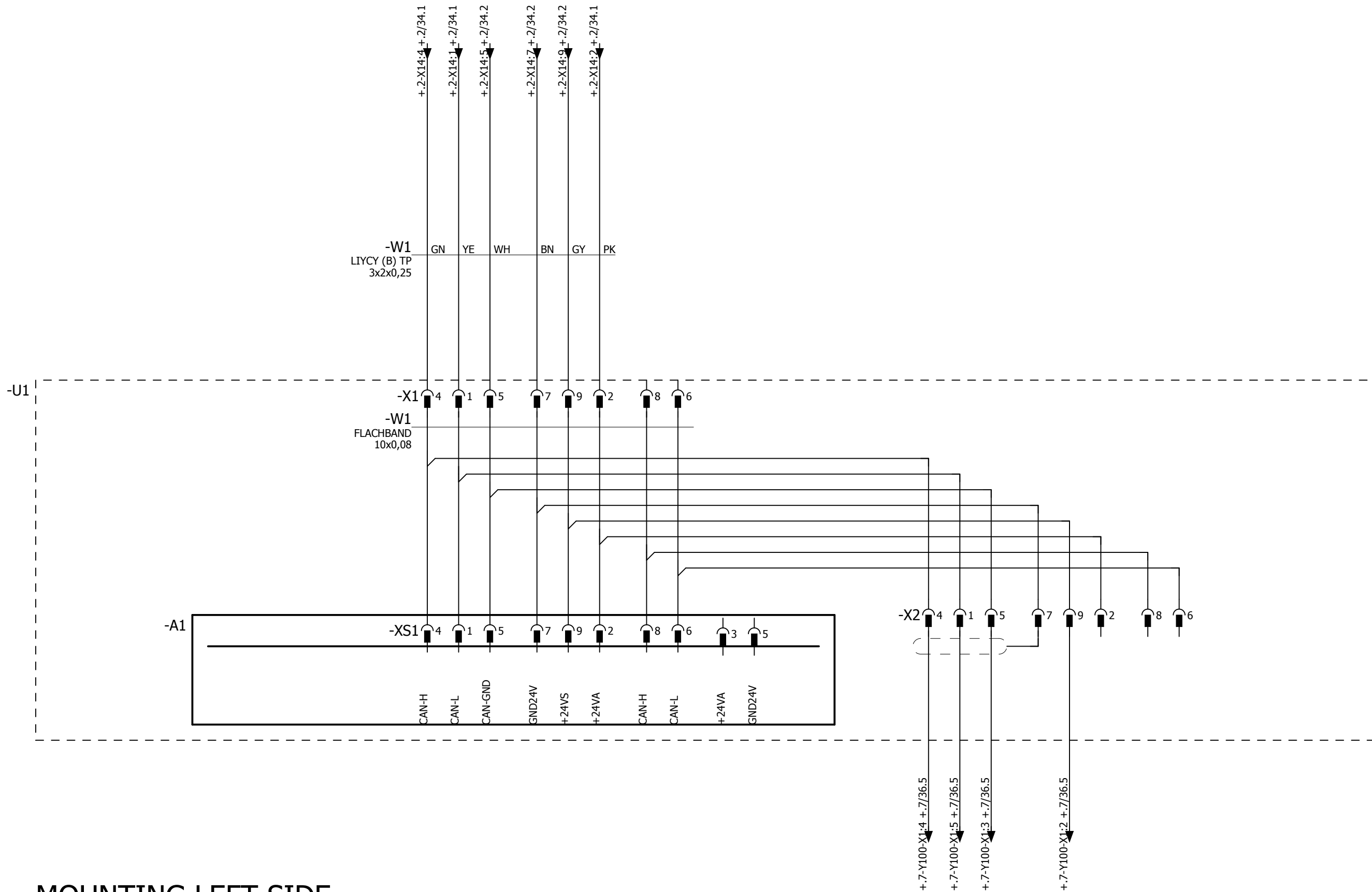
KA0911 / 77004
WET PROCESS SPINNER
Replacement for
Replaced by

-SSE-

INTERFACE

=
+ 12.2

77004



MOUNTING LEFT SIDE

		Date	15.12.2008	KA0911 / 77004		DISPENCE ARM		=	
		Ed. by	hschmidt					+ 12.4	
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Parts list

F01_001

Device tag	Quantity	Designation	Type number	Supplier	Part number
+00-E1-S1	1	FLOAT SWITCH	LS400E-O-X-C-X-1	GEMS	35041
+00-E1-S1	1	FLOAT SWITCH	LS-400E-0-X-C-X-1	GEMS	38933
+00-E2-S1	1	FLOAT SWITCH	LS-400E-0-0C-C-VC-1	GEMS	73635
+00-S11	1	LEVEL SENSOR	SK1-30-M30-P-NB-X-PBT-Y2	BALLUF	33674
+00-W3	1	CONNECTING LINE	M8-M12, PUR 3x0,25/2,0m GRAU	MURR	76594
+11.3-H1-1	1	LED-PILOT LIGHT	KS50	SSE	E63901
+11.3-S1	1	EMERGENCY-OFF BUTTON	AO 61 KPL. EN	EAO	63306
+11.3-S3	1	SAFETY SENSOR	BNS-250-11ZG	SCHMER	60911
+11.3-S3	1	BUTTON	BPS-250	SCHMER	60912
+11.3-S11	1	SENSOR	D-97L	SMC	64263
+11.3-S12	1	SENSOR	D-97L	SMC	64263
+11.3-W2	1	CABLE SOCKET MOULDED	M8X1/PUR 4x0,25 /5m GRAU	MURR	71682
+11.3-X1	1	PIN HOUSING	AMPMODU 103653-4 5-POL	BÜRKLIN	66010
+11.3-X1	5	PIN	AMPMODU 104505-7	BÜRKLIN	66011
+11.3-X1	1	FEMALE PIN HOUSING	AMPMODU 104257-4 5-POL	BUERKLIN	38157
+12.1-S1	1	VAKUUM SWITCH	-0,2...-3,0 mBar	HUBA	39801
+12.1-X1	1	SOCKET INSERT	VS-08-BU-RJ45-6-MOD/BU	PHOE	46999
+12.1-X1	1	DIRECTLY ATTACHED SHELL	VS-08-A-RJ45/MOD-1-IP67	PHOE	47000
+12.2-1	1	CEE-RIGHT ANGLE PLUG	16A5P 6H400V	BUERKLE	36135
+12.2-A1	1	SERVO DRIVE	ARS2310	FRITZ	75907
+12.2-A10	1	MODULE PLC C-DIAS	CDIAS3.1	SSE	71073
+12.2-F1	1	FUSE TERMINAL	UK5-HESI	PHÖNIX	65584
+12.2-F1	1	MINIATURE FUSE	0,63AMT 5x20mm	BUERKLE	36137
+12.2-F2	1	CIRCUIT-BREAKER	FAZ-C10/1	MOELLER	64859
+12.2-F3	1	CIRCUIT-BREAKER	FAZ-C10/1	MOELLER	64859
+12.2-F5	1	CIRCUIT-BREAKER	FAZ-C10/3	MOELLER	64864
+12.2-H1	1	INDICATOR LIGHT GREEN	RM22 GREEN	SSE	63010
+12.2-H2	1	PIEZO-BUZZER 15-48V DC	DC 300I/15-48V	RS	36949
+12.2-K1	1	SAFETY RELAY	PNOZ X2	PILZ	42956
+12.2-K3	1	PROTECTIVE DOOR GUARD	AES 1102	SCHMER	70931
+12.2-K5	1	SOCKET	93.51.7.024	FIN	68844
+12.2-K5	1	RELAY	34.51.7.024.0010	FIN	68845
+12.2-Q1	1	MAIN SWITCH	P1-25/EA/SVB-SW	MOELLER	33981
+12.2-Q1	1	COVER	H-P1	MOELLER	70955
+12.2-Q1	1	ADD-ON FRONT PLATES	ZFS61/62-TO	MOELLER	73076
+12.2-R1	1	RESISTOR	PWR-R 300 120R/J	GHV	43148
+12.2-R2	1	RESISTOR	PWR-R 300 120R/J	GHV	43148
+12.2-R5	1	RESISTOR	120 Ohm/0,33W	RS	38058
+12.2-S2	1	LIGHTED PUSH KEY BUTTON RED	RM22 RED KPL. 1Ö	SSE	63012
+12.2-S3	1	LIGHTED PUSH KEY BUTTON GREEN	RM22 GREEN KPL. 1S	SSE	63011
+12.2-U2	1	POWER SUPPLY UNIT	6EP1334-2AA01	RS	33623
+12.2-U3	1	POWER DISCTRIBUTOR	MICO 4.6 / 4 KANAL	MURR	73010
+12.2-U4	1	INTERFACE	FLKM-D 9 SUB/B	RED	63017
+12.2-W4	1	MOTOR CABLE	TKD 4G1,5 M7/5m (8-POL)	FRITZ	71227
+12.2-W5	1	RESOLVER CABLE	KAWEFLEX 3340 TKD 4x2x0,25 / 5,0m	FRITZ	71236
+12.2-W7	1	CONNECTING CABLE	1487587-1	RS	74344
+12.2-X22	1	SIGNAL PLUG	ASTA021FS04620035000 / 12-POL.RECHTS	FRITZ	71496
+12.2-X23	1	FEED-THROUGH USB	NAUSB		74822
+12.4-1	1	POWER SOCKET 3x	Jung AP/WD 623 W waagrecht	BUERKLE	51367
+12.4-U1	1	DISPENCE ARM	ELEKTRISCH KPL. -E-	SSE	E60473
+12.4PC-U1	1	COMPUTER	PC Mini ESPRIMO Q-Serie		SW75688
+12.4PC-U2	0	LCD MONITOR	ET1729L	TYCO	77157
+12.4PC-U3	0	KEYBOARD	MIT Touchpad US/USB		SW75687
+12.4PC-U4	1	USB-ETHERNET KONVERTER	DN-3016-A	ASSMANN	76216
+12.4PC-W2	1	POWER CABLE	30357	TERRASHOP	73757
+12.4PC-W3	1	CONNECTING LINE	USB 3,0m (HAMA ART.00045040)	HÜB	64660

=+12.7/38

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Terminal-strip overview

F14_002

Terminal strip	Function text	Terminals					Terminal diagram page
		first	last	Total PE	Total N	Total number	
+12.2-X0	MOUNTIG RAILS IN CONTROL CABINET	PE	PE	3	0	4	
+12.2-X1	DISTRIBUTION POWER	1	PE	3	3	9	
+12.2-X2	INTERLOCK	1	20	0	0	20	
+12.2-X3.1	DISTRIBUTION 24V DC	1	20	0	0	20	
+12.2-X3.2	=	1	15	0	0	10	

+PART_STKL/2

+CBL_KBL/1

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Cable overview

F10_002

Cable type	Cable description	Device tag	Conductors	Cross-section	Length	Remark
LIYY		+00-W1	2	0,5		
		+00-W2	2	1,0		EXHAUST
PUR		+00-W3	4	0,34		TANK 1
LIYY		+00-W4	4	0,5		
		+11.3-W1	4	0,5		
PUR		+11.3-W2	4	0,25		
LIYY		+11.3-W3	4	0,25		
		+11.3-W4	5	0,25		
OELFLEX		+12.2-W1	5G	2,5		
LIYY		+12.2-W2	4	0,25		FR_ R
LIYCY (B) TP		+12.2-W3	2x2	0,25		CAN-H
TKD		+12.2-W4	4G	1,5		
		+12.2-W5	4x2	0,25		
OELFLEX		+12.2-W6	3G	1,5		SYSTEM PC
		+12.2-W7				+24V
LIYCY (B) TP		+12.4-W1	3x2	0,25		CAN-H
H 05 VV-F		+12.4PC-W2	3G	1,0	5	
		+12.4PC-W5			3	
		+12.4PC-W6				=
		+12.4PC-W7			1,8	=
		+12.4PC-W8			1	=
		+12.4PC-W10			3	FROM PLC
LIYY		+12.7-W1				
PUR	5x0,5	+12.7-W2	5	0,25		L2+
PUR DROP		+12.7-W3	2x2	0,25	5	CAN-H
PUR		+12.7-W4	3	0,25		RESERVED
		+12.7-W5	3	0,25		DOOR LOCKED

+TERM_KLM/1

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= REPORT
+ CBL_KBL