




## A

B

## C


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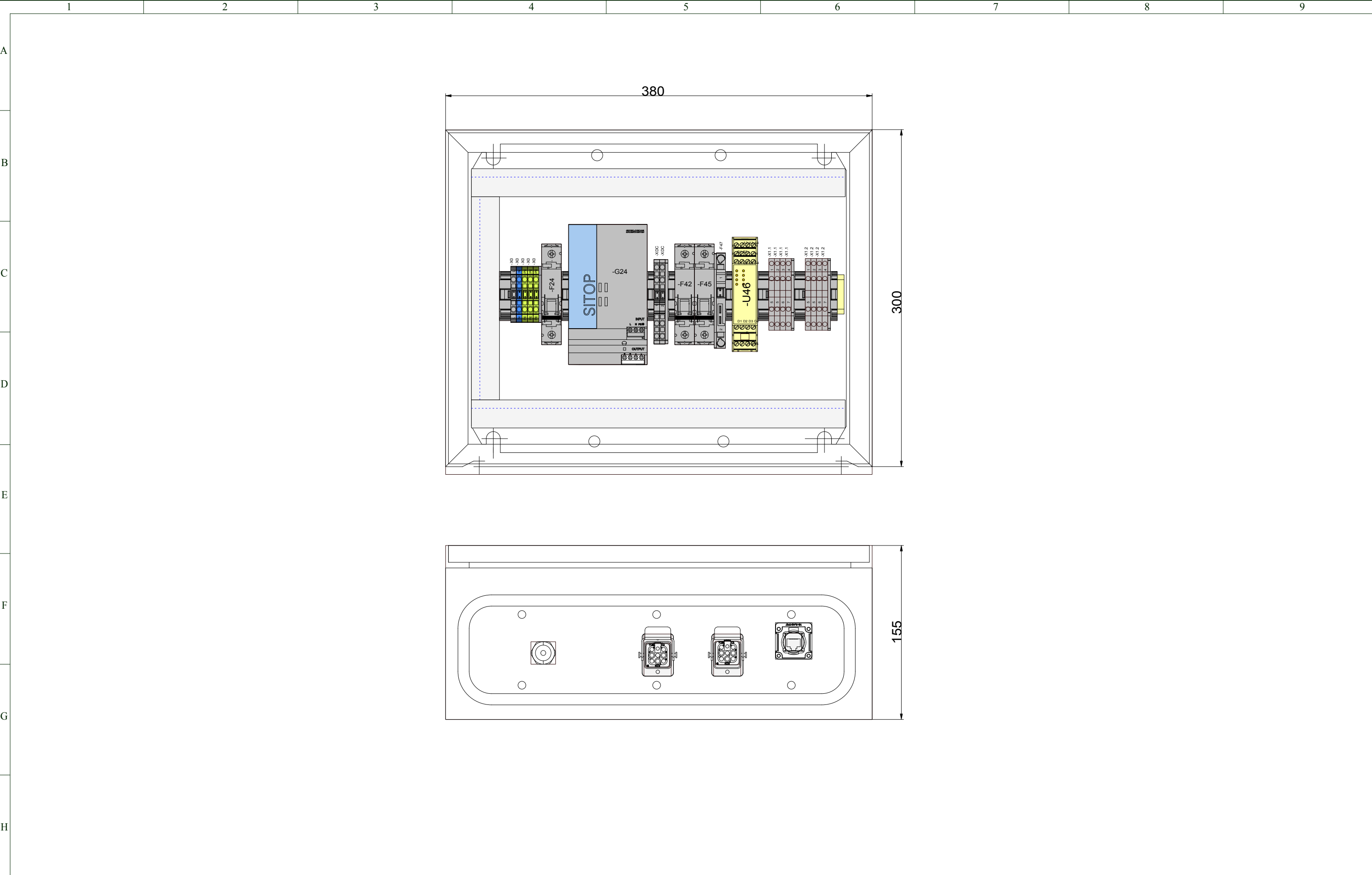
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A	<h1><u>General project informations</u></h1>																																																																																																						
B	<p>When operating electrical installations, certain parts are inevitably under dangerous current. If the following instructions are not observed, severe injuries and material damages may occur.</p>				<h2>2. Assembly and commissioning instructions</h2>																																																																																																		
C	<h3>1. Safety instructions</h3>				<p>- Before commissioning, verify that the machine which is connected to the switch cabinet conforms to the requirements of the EC directives.</p>																																																																																																		
D	<p>- Only a qualified electrician, or instructed persons under the guidance and supervision of a qualified electrician, are allowed to work on electrical installations or components in accordance with the national electro technical regulations.</p>				<p>- Do not set up the switch cabinet in rooms in which there is a risk of explosion.</p>																																																																																																		
E	<p>- Before starting inspection, maintenance or repairs on machine and system parts, shut the current off and ensure it cannot be switched on again to prevent electrocution. Also protect and cover all the surrounding, connected electrical components to avoid accidental contact.</p>				<p>- After installing and assembling the switch cabinet, check the firmness of all screw fittings on the bus bar</p>																																																																																																		
F	<p>- The installation's electrical equipment is to be inspected/checked regularly. Defects must be immediately notified and removed.</p>				<p>- Once the switch cabinet is connected with the machine, tests according to DIN EN60204/T1 must be carried out before the first start-up and after changes.</p>																																																																																																		
G	<p>- Should work on live parts be necessary, a second person must be called in to turn the main switch off in case of emergency. Working areas must be shut off with a red and white safety chain and a warning sign. Use only electrically insulated tools.</p>				<p>- In case of changes and extensions within the switch cabinet, the wiring color scheme must be observed.</p>																																																																																																		
H	<p>- For replacement, only the same type of fuse must be used. In case of disturbance in the main power supply, switch off the installation immediately.</p>				<p>- During assembly, the cables and cable crosscuts must be selected and laid according to DIN EN60204/T1.</p>																																																																																																		
	<p>- Keep the switch cabinet closed. Water or uncontrolled manipulation could lead to life-threatening situations.</p>				<p>- Cables and wires must be installed through the openings in the floor or subsequently installed cable ducts (depending on the local circumstances).</p>																																																																																																		
	<p>- In case of fire in electrical installations, no water may be used to extinguish the fire.</p>				<p>- Changes on/in the switch cabinet must be agreed with us.</p>																																																																																																		
					<h3>3. Transport and storage</h3>																																																																																																		
					<p>- For transport, the switch cabinet must be packed to avoid damage to the housing</p>																																																																																																		
					<p>- During transport, the switch cabinet must be fixed to avoid any shifting or tilting over.</p>																																																																																																		
					<p>- The switch cabinet must be transported appropriately and professionally.</p>																																																																																																		
					<p>- In case of intermediate storage, appropriate measures must be taken to avoid damage due to humidity, vibration and shock.</p>																																																																																																		
<table><tr><td rowspan="5"></td><td>© LAP GmbH</td><td>2011</td><td>date</td><td>name</td><td colspan="2" rowspan="3">customer</td><td colspan="2" rowspan="3">project</td><td rowspan="5">CAD-Pro distribution box</td></tr><tr><td>Zeppelinstr. 23</td><td>editor</td><td>17.06</td><td>Behnke</td></tr><tr><td>D-21337 Lueneburg</td><td>Proved</td><td></td><td></td></tr><tr><td>Fon: +49 (0)4131 951195</td><td>Standard</td><td></td><td></td><td>drawing number</td><td>1106CAD100</td><td>LAP order number</td><td>CAD-00115</td><td>customer; order number</td><td>File : Y:\40.Projektor- Produkte\Schema\CAD-00115\Schema_GB.e3s</td></tr><tr><td>Fax: +49 (0)4131 951196</td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td></td></tr><tr><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td>plant</td><td>REV.: 1.0</td><td>Sheet</td><td>00</td></tr><tr><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td>=CPS</td><td></td><td>next</td><td>00</td></tr><tr><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td>Location</td><td></td><td>last</td><td>18</td></tr><tr><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td>+A</td><td>01.07.2011 11:01</td><td>total</td><td>19</td></tr></table>											© LAP GmbH	2011	date	name	customer		project		CAD-Pro distribution box	Zeppelinstr. 23	editor	17.06	Behnke	D-21337 Lueneburg	Proved			Fon: +49 (0)4131 951195	Standard			drawing number	1106CAD100	LAP order number	CAD-00115	customer; order number	File : Y:\40.Projektor- Produkte\Schema\CAD-00115\Schema_GB.e3s	Fax: +49 (0)4131 951196																				plant	REV.: 1.0	Sheet	00											=CPS		next	00											Location		last	18											+A	01.07.2011 11:01	total	19
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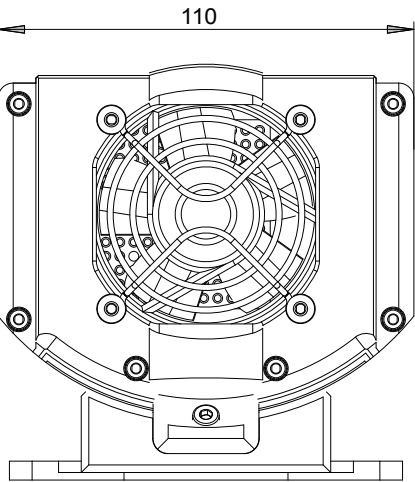
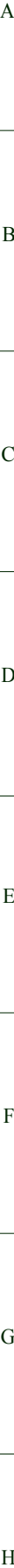
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A	<h1><u>General project informations</u></h1>																																																																																																
B	<h2><u>4. Wiring</u></h2>				<h2><u>6. Short descriptions following IEC 757</u></h2>																																																																																												
C	<u>Coloring of cable cores following DIN EN60204/T1</u>																																																																																																
D	<table><tr><td>Main circuits; alternating and direct current (&gt;60V)</td><td>black</td><td>(BK)</td></tr><tr><td>Control circuits; alternating current</td><td>red</td><td>(RD)</td></tr><tr><td>Control circuits; direct current</td><td>blue</td><td>(BU)</td></tr><tr><td>Potective earth PE resp. PEN</td><td>green/yellow</td><td>(GNYE)</td></tr><tr><td>Neutral conductors N without safty function</td><td>light blue</td><td>(BU)</td></tr><tr><td>Locking circuits; powered from external sources which keep voltage also the main switch is off</td><td>orange</td><td>(OG)</td></tr><tr><td>Circuits which keep voltage also the main switch is off</td><td>yelllow (Oelflex (tm))</td><td>(YE)</td></tr><tr><td>Measuring conductors</td><td>...</td><td>...</td></tr></table>				Main circuits; alternating and direct current (>60V)	black	(BK)	Control circuits; alternating current	red	(RD)	Control circuits; direct current	blue	(BU)	Potective earth PE resp. PEN	green/yellow	(GNYE)	Neutral conductors N without safty function	light blue	(BU)	Locking circuits; powered from external sources which keep voltage also the main switch is off	orange	(OG)	Circuits which keep voltage also the main switch is off	yelllow (Oelflex (tm))	(YE)	Measuring conductors	...	...	<table><tr><td></td><td></td><td>old</td><td></td></tr><tr><td>Schwarz</td><td>Black</td><td>sw</td><td>BK</td></tr><tr><td>Braun</td><td>Brown</td><td>br</td><td>BN</td></tr><tr><td>Rot</td><td>Red</td><td>rt</td><td>RD</td></tr><tr><td>Orange</td><td>Orange</td><td>or</td><td>OG</td></tr><tr><td>Gelb</td><td>Yellow</td><td>ge</td><td>YE</td></tr><tr><td>Grün</td><td>Green</td><td>gn</td><td>GN</td></tr><tr><td>Blau</td><td>Blue</td><td>bl</td><td>BU</td></tr><tr><td>Violett</td><td>Violet</td><td>vio</td><td>VT</td></tr><tr><td>Grau</td><td>Grey</td><td>gr</td><td>GY</td></tr><tr><td>Weiß</td><td>White</td><td>ws</td><td>WH</td></tr><tr><td>Rosa</td><td>Pink</td><td>rs</td><td>PK</td></tr><tr><td>Gold</td><td>Gold</td><td>-</td><td>GD</td></tr><tr><td>Türkis</td><td>Turquoise</td><td>tk</td><td>TQ</td></tr><tr><td>Silber</td><td>Silver</td><td>-</td><td>SR</td></tr><tr><td>grün-gelb</td><td>Green-Yellow</td><td>gnge</td><td>GNYE</td></tr></table>						old		Schwarz	Black	sw	BK	Braun	Brown	br	BN	Rot	Red	rt	RD	Orange	Orange	or	OG	Gelb	Yellow	ge	YE	Grün	Green	gn	GN	Blau	Blue	bl	BU	Violett	Violet	vio	VT	Grau	Grey	gr	GY	Weiß	White	ws	WH	Rosa	Pink	rs	PK	Gold	Gold	-	GD	Türkis	Turquoise	tk	TQ	Silber	Silver	-	SR	grün-gelb	Green-Yellow	gnge	GNYE	
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F	<h2><u>5. Notes of crossectional areas</u></h2>																																																																																																
G	<p>All non discribed conductors in main circuits, 1,5mm² (16AWG)</p> <p>All non discribed conductors in control circuits, 0,75mm² (AWG20)(PLC wiring. 0,5mm² (AWG22)</p> <p>Noted crossectional areas are valid for a length of 10 m (33ft)</p>				<h2><u>7. Potential equation</u></h2> <p>By removing of the PE connection will be an insulation monitoring according to VDE 0100/60f.2 / IEC 60364 necessary</p>																																																																																												
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A	<div>Identification letter for parts of system</div> <div>= plant</div> <div>+ Location</div> <div>- Device list</div> <div>: terminal</div>								
B	<div>Identification letter of electrical devices</div> <div><div><div>AAssemblies</div><div>BTransducers</div><div>CCapacitance</div><div>DBinary Elements, Data storage</div><div>EMiscellaneous</div><div>FProtection devices</div><div>GGenerators, power supply</div><div>HSignal lamps</div><div>KRelays</div><div>LInductive devices</div><div>MMotors</div><div>NAmplifier, Regulator</div><div>PMeters</div><div>QPower switches, Breaker</div><div>RResistors</div><div>SSwitches, Selectors</div><div>TTransformers</div><div>UModulators, Converters</div><div>VSemiconductors</div><div>WConductors</div><div>XTerminals</div><div>YElectro mechanical</div><div>ZEnding, Filter</div></div><div><div>PC, Back plan systems</div><div>Sensor, mike</div><div>Capacitor</div><div>And-element,Magnet tape, Floppy</div><div>Lights, Heating</div><div>Fuse</div><div>Engine generator,Oscillator</div><div>Signal lamp, Monitor, Display</div><div>Relay / Conductor</div><div>Coil</div><div>DC &amp; AC Motors</div><div>Signal Amplifier</div><div>Voltmeter, Oscilloscope</div><div>Main switch, Motor Starter</div><div>Potentiometer, Shunt</div><div>Button, rotary Switch</div><div>Transformer</div><div>Frequency converter</div><div>Diode, Transistor</div><div>Cable, Antenna</div><div>Terminal Strip, Connector</div><div>Brake, Valves</div><div>Filter</div></div></div> <div>1st. letter shows device type</div>								
C	<div>cross reference</div> <div><div><div>12, 14</div><div>-K007</div><div>/00.G7</div><div>11</div></div><div><div>-K007</div><div>/00.G7</div><div>A1</div><div>A2</div></div><div><div>-K007</div><div>/00.E7</div><div>11</div><div>12</div><div>14</div><div>21</div><div>22</div><div>24</div><div>31</div><div>32</div><div>34</div></div></div>								
D	<div>last number shows the column</div>								
E	<div>first numbers shows the sheet</div>								
F	<div>page</div> <div>grid</div>								
G	<div>1st. letter shows device type</div>								
H	<div>1st. letter shows device type</div>								

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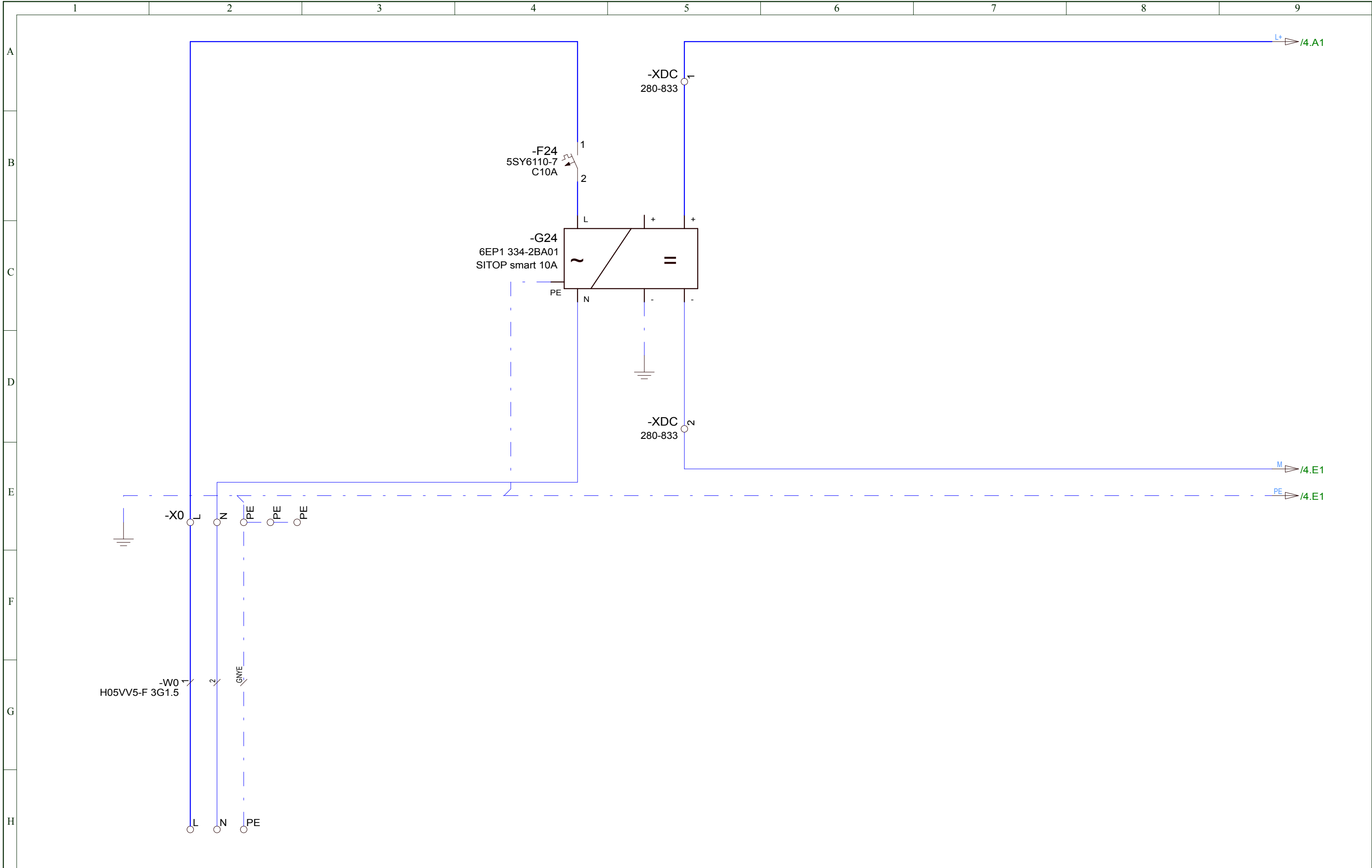




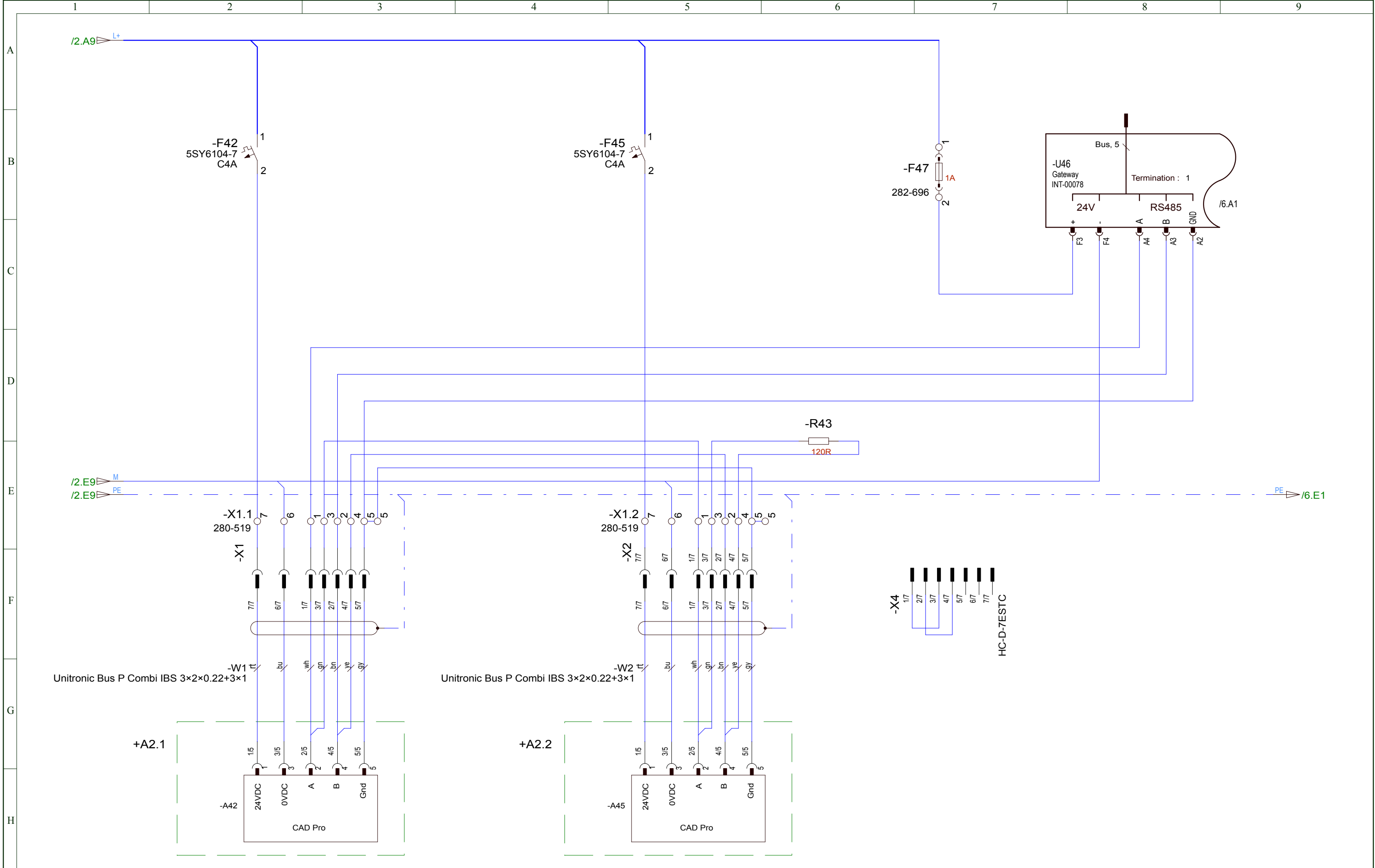


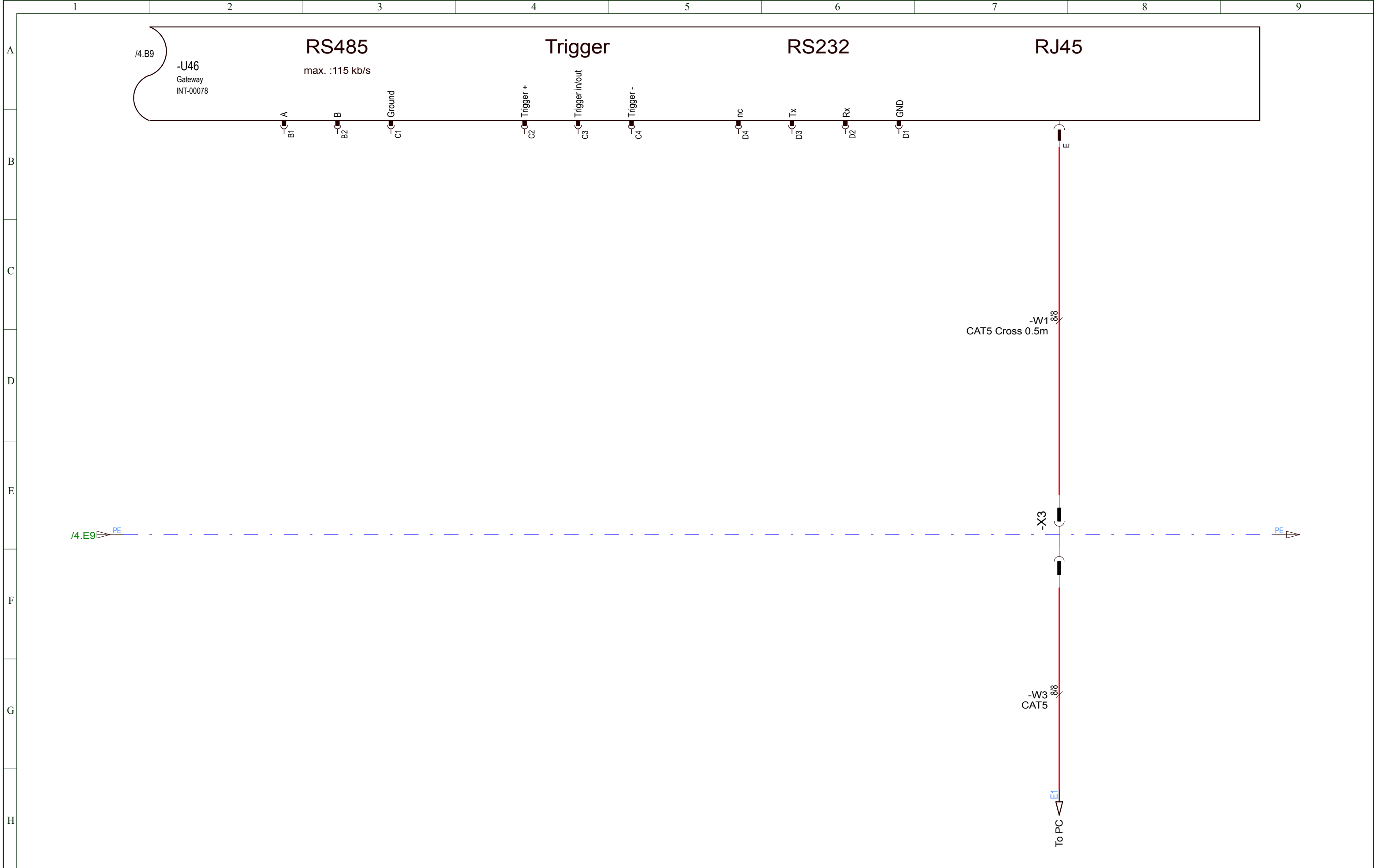
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terminal type

terminal

280-601 [ L ]

terminal

280-602 [ N ]

terminal


280-607 [ PE - PE ]

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A	<div>terminal strip</div> <div>-X1.1</div>																									<div>terminal</div> <div>280-519 [ 1 - 7 ]</div> <div>terminal</div> <div>terminal</div> <div>Terminal type</div>																								
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A	<div>terminal strip</div> <div>-X1.2</div>																																											
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A	<div>Cable sheet<div>cable: =CPS -W1</div></div>								
B	<div><div>cable type: Unitronic Bus P Combi IBS 3×2×0.22+3×1</div></div>								
	Device designation	Pin	Connector pin terminal	core	Device designation	Pin	Connector pin terminal	length (mm)	
	=CPS-W1	2		wh	=CPS-W1	1	CK1.6ED0.37STAG		
	=CPS-W1	4		bn	=CPS-W1	2	CK1.6ED0.37STAG		
C	=CPS-W1	2		gn	=CPS-W1	3	CK1.6ED0.37STAG		
	=CPS-W1	4		ye	=CPS-W1	4	CK1.6ED0.37STAG		
	=CPS-W1	5		gy	=CPS-W1	5	CK1.6ED0.37STAG		
				pk					
D	=CPS-W1	3		bu	=CPS-W1	6	CK1.6ED1.00STAG		
	=CPS-W1	1		rt	=CPS-W1	7	CK1.6ED1.00STAG		
				gn/ye					
E	=CPS+A1			SH1					
F									
G									
H									
<div><div><div><div><div>LAP</div><div>L A S E R</div></div><div><div>© LAP GmbH</div><div>Zeppelinstr. 23</div><div>D-21337 Lueneburg</div><div>Fon: +49 (0)4131 951195</div><div>Fax: +49 (0)4131 951196</div></div></div><div><div>2011</div><div>editor</div><div>Proved</div><div>Standard</div></div><div><div>date</div><div>23.06</div><div></div><div></div></div><div><div>name</div><div>Behnke</div><div></div><div></div></div><div><div>customer</div><div></div><div>drawing number</div><div>1106CAD100</div></div><div><div>LAP order number</div><div>CAD-00115</div></div><div><div>customer order number</div><div></div></div><div><div>CAD-Pro distribution box</div><div>cable plan -W1</div><div>File : Y:\40.Projektor- Produkte\Schema\CAD-00115\Schema_GB.e3s</div></div><div><div>plant</div><div>=CPS</div><div>Location</div><div></div></div><div><div>REV.: 1.0</div><div></div><div>01.07.2011</div><div>11:01</div></div><div><div>Sheet</div><div>13</div><div>next</div><div>14</div><div>last</div><div>18</div><div>total</div><div>19</div></div></div></div>									

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A	<div>Cable sheet<div>cable: =CPS -W2</div><div>cable type: Unitronic Bus P Combi IBS 3×2×0.22+3×1</div><table><tr><th>Device designation</th><th>Pin</th><th>Connector pin terminal</th><th>core</th><th>Device designation</th><th>Pin</th><th>Connector pin terminal</th><th>length (mm)</th></tr><tr><td>=CPS-W2</td><td>2</td><td></td><td>wh</td><td>=CPS-W2</td><td>1</td><td>CK1.6ED0.37STAG</td><td></td></tr><tr><td>=CPS-W2</td><td>4</td><td></td><td>bn</td><td>=CPS-W2</td><td>2</td><td>CK1.6ED0.37STAG</td><td></td></tr><tr><td>=CPS-W2</td><td>2</td><td></td><td>gn</td><td>=CPS-W2</td><td>3</td><td>CK1.6ED0.37STAG</td><td></td></tr><tr><td>=CPS-W2</td><td>4</td><td></td><td>ye</td><td>=CPS-W2</td><td>4</td><td>CK1.6ED0.37STAG</td><td></td></tr><tr><td>=CPS-W2</td><td>5</td><td></td><td>gy</td><td>=CPS-W2</td><td>5</td><td>CK1.6ED0.37STAG</td><td></td></tr><tr><td></td><td></td><td></td><td>pk</td><td></td><td></td><td></td><td></td></tr><tr><td>=CPS-W2</td><td>3</td><td></td><td>bu</td><td>=CPS-W2</td><td>6</td><td>CK1.6ED1.00STAG</td><td></td></tr><tr><td>=CPS-W2</td><td>1</td><td></td><td>rt</td><td>=CPS-W2</td><td>7</td><td>CK1.6ED1.00STAG</td><td></td></tr><tr><td></td><td></td><td></td><td>gn/ye</td><td></td><td></td><td></td><td></td></tr><tr><td>=CPS+A1</td><td></td><td></td><td>SH1</td><td></td><td></td><td></td><td></td></tr></table></div>									Device designation	Pin	Connector pin terminal	core	Device designation	Pin	Connector pin terminal	length (mm)	=CPS-W2	2		wh	=CPS-W2	1	CK1.6ED0.37STAG		=CPS-W2	4		bn	=CPS-W2	2	CK1.6ED0.37STAG		=CPS-W2	2		gn	=CPS-W2	3	CK1.6ED0.37STAG		=CPS-W2	4		ye	=CPS-W2	4	CK1.6ED0.37STAG		=CPS-W2	5		gy	=CPS-W2	5	CK1.6ED0.37STAG					pk					=CPS-W2	3		bu	=CPS-W2	6	CK1.6ED1.00STAG		=CPS-W2	1		rt	=CPS-W2	7	CK1.6ED1.00STAG					gn/ye					=CPS+A1			SH1				
Device designation	Pin	Connector pin terminal	core	Device designation	Pin	Connector pin terminal	length (mm)																																																																																										
=CPS-W2	2		wh	=CPS-W2	1	CK1.6ED0.37STAG																																																																																											
=CPS-W2	4		bn	=CPS-W2	2	CK1.6ED0.37STAG																																																																																											
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manufacturer		© LAP GmbH	2011	date	name	customer	project	CAD-Pro distribution box		plant	REV.: 1.0	Sheet
		Zeppelinstr. 23	editor	23.06	Behnke		CAD-00115	cable plan -W2		=CPS		14
		D-21337 Lueneburg	Proved							Location		next
		Fon: +49 (0)4131 951195	Standard			drawing number	1106CAD100	LAP order number	CAD-00115	customer order number	01.07.2011	11:01
		Fax: +49 (0)4131 951196							File : Y:\40.Projektor- Produkte\Schema\CAD-00115\Schema_GB.e3s			total



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	editor	17.06	Behnke				CAD-00115								next
	Proved											last			
	Standard			drawing number	1106CAD100	LAP order number	CAD-00115	customer order number		File : Y:\40.Projektor- Produkte\Schema\CAD-00115\Schema_GB.e3s		01.07.2011	11:01	total	

	1	2	3	4	5	6	7	8	9
A	<div>Higher Level Assignment =CPSLocation designation +A1</div>								
	Dev	Des	amount	component	article designation	manufacturer	Article Number		
B	-F24	1	5SY6110-7	Power protective switch, character C10A	Siemens AG	5SY6110-7			
	-F42	1	5SY6104-7	Power protective switch, character C 4A.	Siemens AG	5SY6104-7			
	-F45	1	5SY6104-7	Power protective switch, character C 4A.	Siemens AG	5SY6104-7			
C	-F47	1	282-696	Fuse terminal	WAGO GmbH	282-696			
	-G24	1	6EP1 334-2BA01	Power supply, SITOP 24V/10A	Siemens AG	6EP1 334-2BA01			
	-R43	1	Abschlusswiderstand	Resistor 120R	xxx	xxxx			
D	-U46	1	Gateway	Gateway	LAP GmbH	INT-00078			
	-X0	1	280-601	2-conductor through terminal block; lateral marking; front-entry	WAGO GmbH	280-601			
	-X0	1	280-602	2-conductor through terminal block; lateral marking; front-entry	WAGO GmbH	280-602			
E	-X0	3	280-607	2-conductor earth terminal block; lateral marking; front-entry;	WAGO GmbH	280-607			
	-X1	1	HC-D-7-EBCU	Socket 7pin	Phoenix Contact	17 72 23 0			
	-X1.1	4	280-519	Double deck terminal block; through/through; centre marking; gre	WAGO GmbH	280-519			
F	-X1.2	4	280-519	Double deck terminal block; through/through; centre marking; gre	WAGO GmbH	280-519			
	-X2	1	HC-D-7-EBCU	Socket 7pin	Phoenix Contact	17 72 23 0			
	-X3	1	1689080	Bulkhead housing RJ45	Phoenix Contact	1689080			
G	-X3	1	VS-08-BU-RJ45/BU	RJ45 socket insert, socket on socket	Phoenix Contact	1689064			
	-X4	1	1604888	Bulkhead housing	Phoenix Contact	1604888			
	-X4	1	Blindstopfen M20x1.5	SKINDICHT BL-M	Lappkabel	52103125			
H	-X4	1	HC-D-7ESTC	Plug 7pin	Phoenix Contact	17 72 24 3			
	-XDC	2	280-833	4-conductor through terminal block; centre marking; (asymmetric)	WAGO GmbH	280-833			

	1	2	3	4	5	6	7	8	9
A	Higher Level Assignment =CPS			Location designation +A2.1					
	DevDesamount	component	article designation			manufacturer	Article Number		
B	-A42	1	CAD Pro	CAD Pro			LAP	CAD-00038	
C									
D									
E									
F									
G									
H									

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