

Technical specification

Standards

DIN VDE 0100-710
 DIN VDE 0660-600-1, -2
 DIN VDE 0570-2-15

EN 61439-1, -2
 EN 61558-2-15

IEC 60364-7-710
 IEC 61439-1, -2
 IEC 61558-2-15

additional note for Austria
 ÖVE-EN7/1991, ÖVE EN7a/1994
 ÖVE/ÖNORM E8007/A1:2002-02-01
 ÖVE/ÖNORM E8007/A2:2002-11-01

Rated values

Voltage (Un, Ue)	as specified in the circuit diagram
Rated current (InA)	as specified in the circuit diagram
Frequency (fn)	50/60Hz
Insulation voltage (Ui)	250/400V
Impulse withstand voltage (Uimp)	4kV/III
Branch current (Inc)	as specified in the circuit diagram
Short-term withstand current (Icw)	as specified in the circuit diagram
Peak current (Ipk)	as specified in the circuit diagram

Rated diversity factor RDF acc. IEC61439-2, DIN VDE 0660-600-2

Extract from table 101

Quantity of circuits factor	
2-3	0.9
4-5	0.8
6-9	0.7
>9	0.6
Loads <=100kW	0.8

Wiring types

Form	Voltage	Wire color	Colour abbreviations
Main circuit	AC 230/400V	black	BK
Neutral conductor		light blue	BU
PE-Conductor		green/yellow	GN/YE
Control voltage	AC 230V	red	RD
Control voltage	AC 24V	brown	BN
Control voltage	DC 24V	blue	BU
External voltage/potential free		orange	OR
Data circuits		white/brown	WH/BN
Measuring circuits		grey	GR
Voltfree contacts		white	WH
Neutral/disconnect terminal	< =35mm ²		
Wire type code	H07Z-K NSHXAFÖ		
Wire colors	DIN EN 60445, VDE 0197 DIN EN 60204-1, VDE 0113-1		

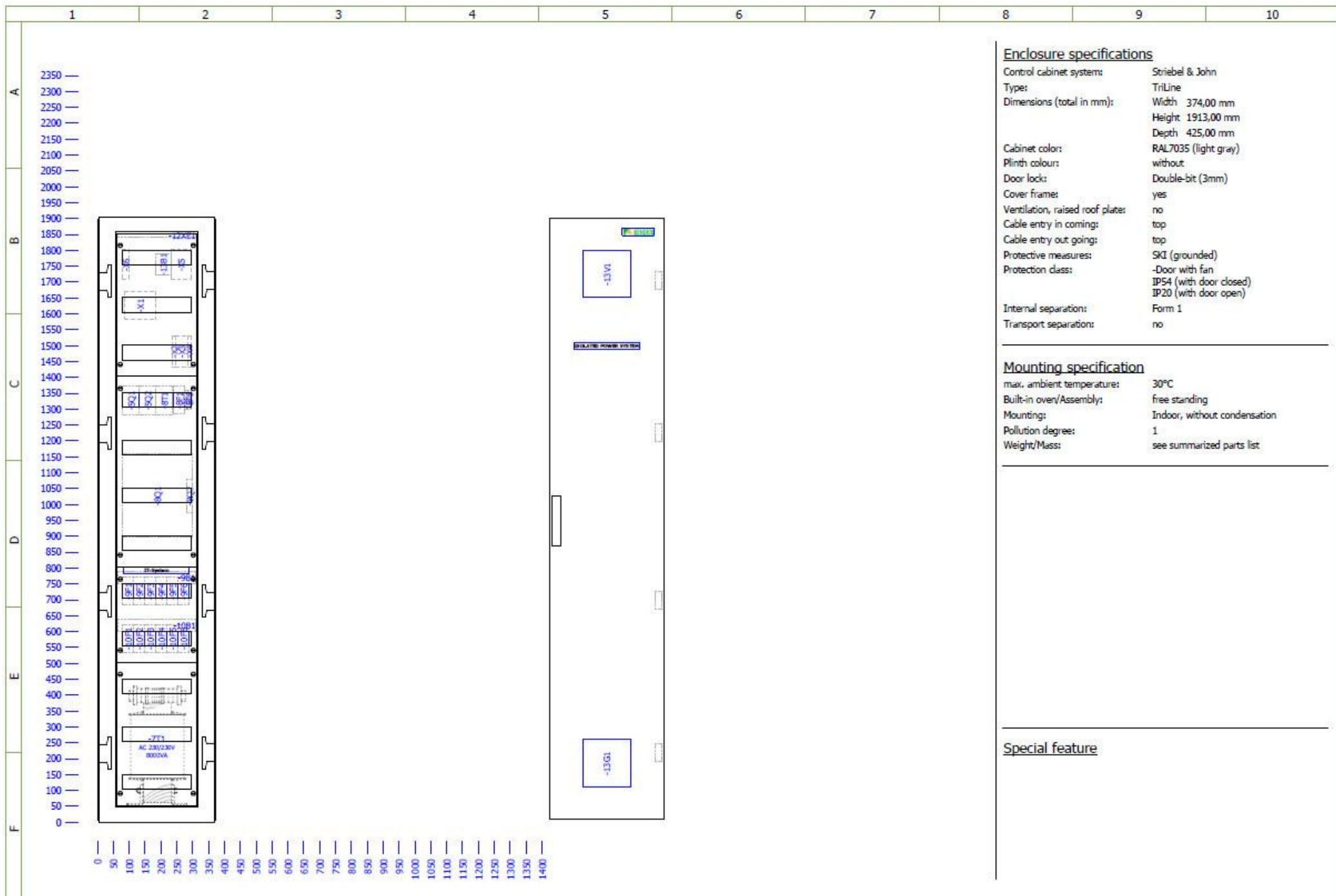
Information about the connection in accordance with IEC60364-5-52, VDE0100-520:
 Circuits with different voltages may be placed in the same cable channel,
 if the cable / conductor is rated for the highest applied voltage.
 Under certain circumstances, a cable must be dismantled just right before the terminal.
 An EMC compliant installation must be observed.

Marking/Identification

Device identification	white adhesive labels, black writing	DIN EN 81346-2
Terminal referencing	white plastic signs, black writing	DIN EN 81346-2

Note

The general safety and installation advice manual for switchgear assemblies must be followed.
 This switchgear is designed for use in non-public or industrial low voltage systems.
 EMC-environment A, acc. to IEC61439-1, Appendix J, J9.4.1.



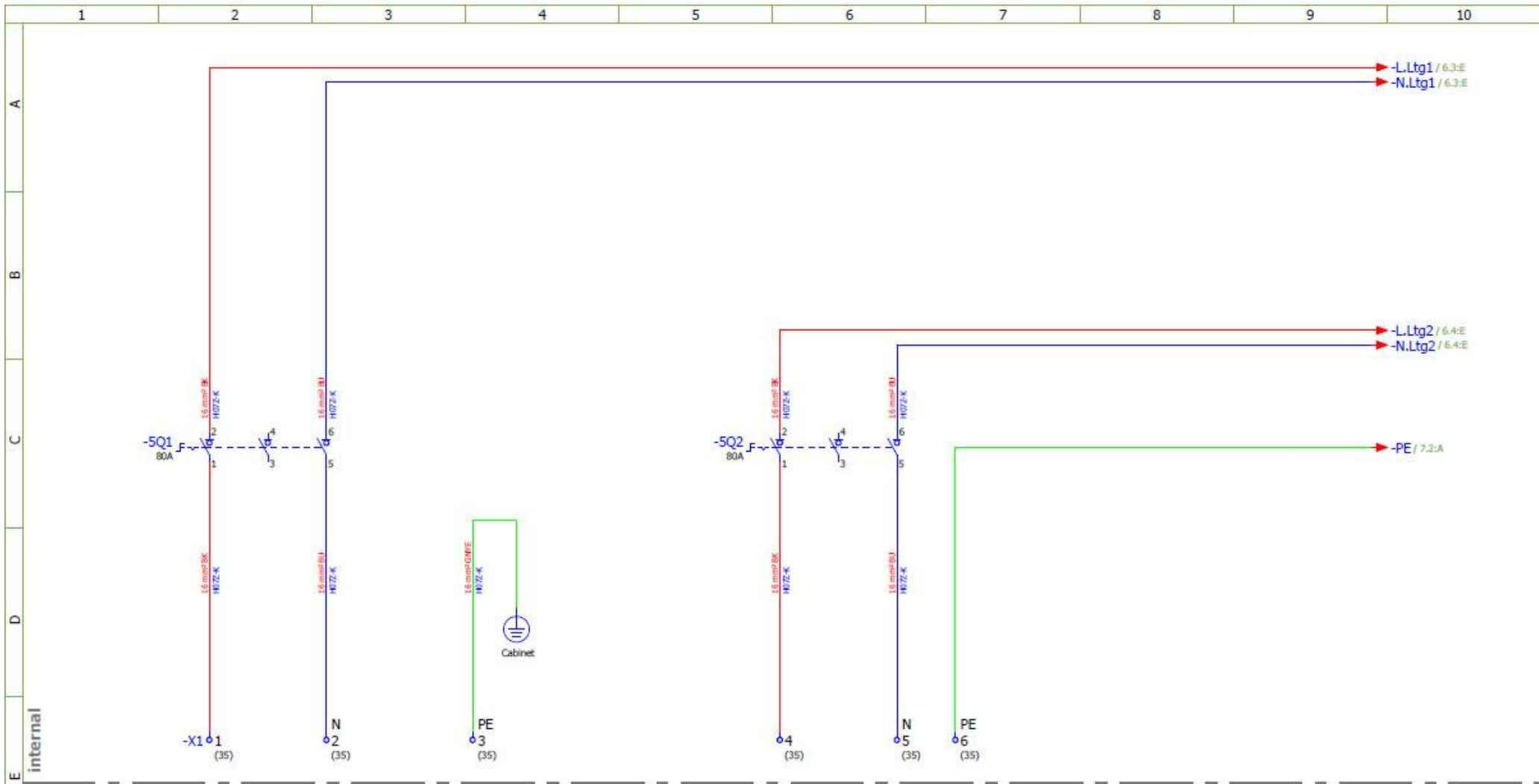
Enclosure specifications

Control cabinet system:	Sriebel & John
Type:	TriLine
Dimensions (total in mm):	Width 374,00 mm Height 1913,00 mm Depth 425,00 mm
Cabinet color:	RAL7035 (light gray)
Plinth colour:	without
Door lock:	Double-bit (3mm)
Cover frames:	yes
Ventilation, raised roof plates:	no
Cable entry in coming:	top
Cable entry out going:	top
Protective measures:	SKI (grounded)
Protection class:	-Door with fan IP54 (with door closed) IP20 (with door open)
Internal separation:	Form 1
Transport separation:	no

Mounting specification

max. ambient temperature:	30°C
Built-in oven/Assembly:	free standing
Mounting:	Indoor, without condensation
Pollution degree:	1
Weight/Mass:	see summarized parts list

Special feature



internal		external	
Circuit Designation	-	-	-
Voltage (Un, Ue)	L/N/PE AC 230V 50/60Hz	L/N/PE AC 230V 50/60Hz	L/N/PE AC 230V 50/60Hz
Short-term withstand current (Isw)	9 kA / 0.2 sec.	9 kA / 0.2 sec.	9 kA / 0.2 sec.
Peak current (Ipk)	15.3 kA	15.3 kA	15.3 kA
Pre-fuse (InA)	qG 63A	qG 63A	qG 63A
Cable	-	-	-
Comment / plant name	Power input line 1	Power input line 2	

1 2 3 4 5 6 7 8 9 10

A

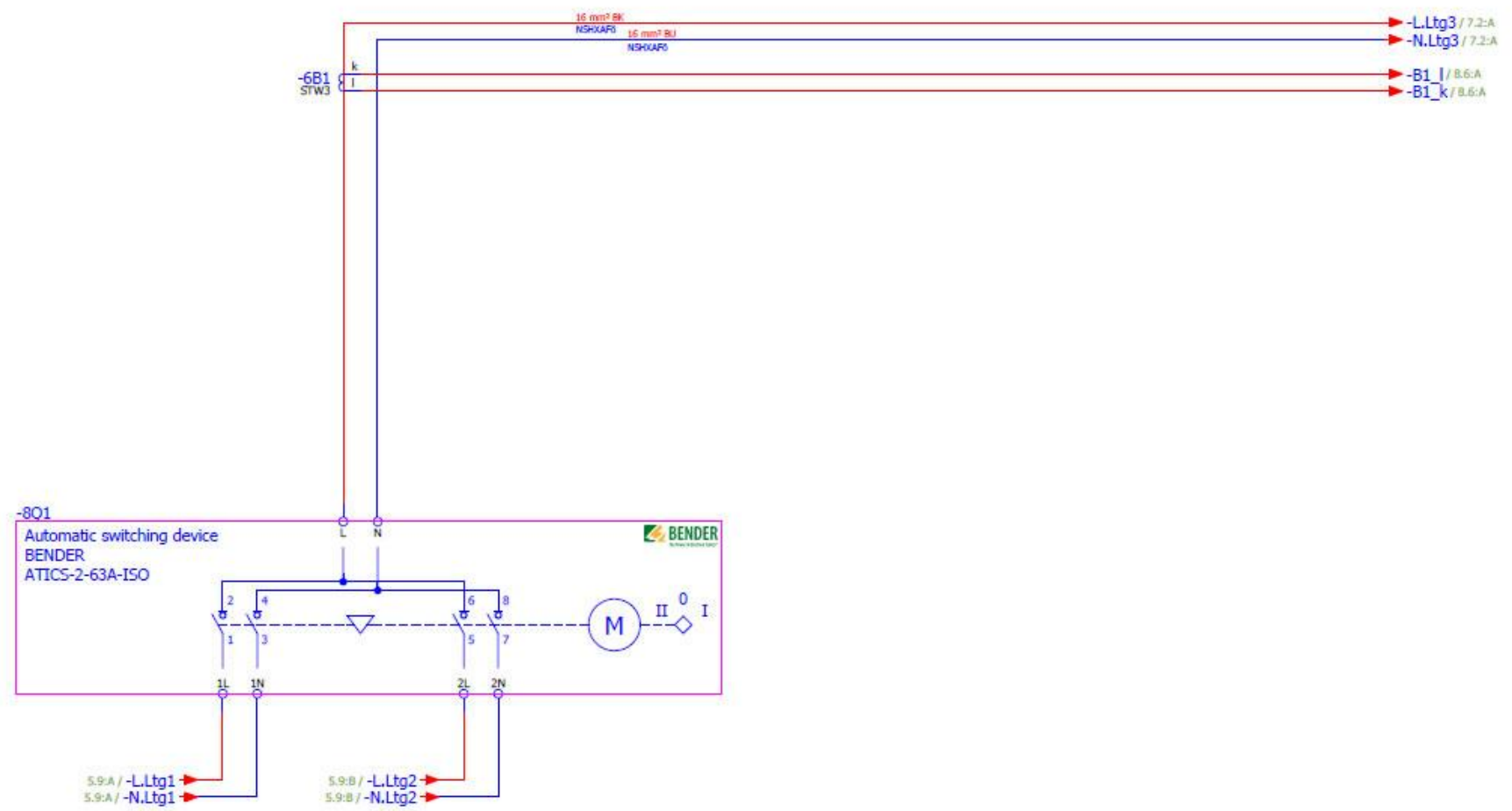
B

C

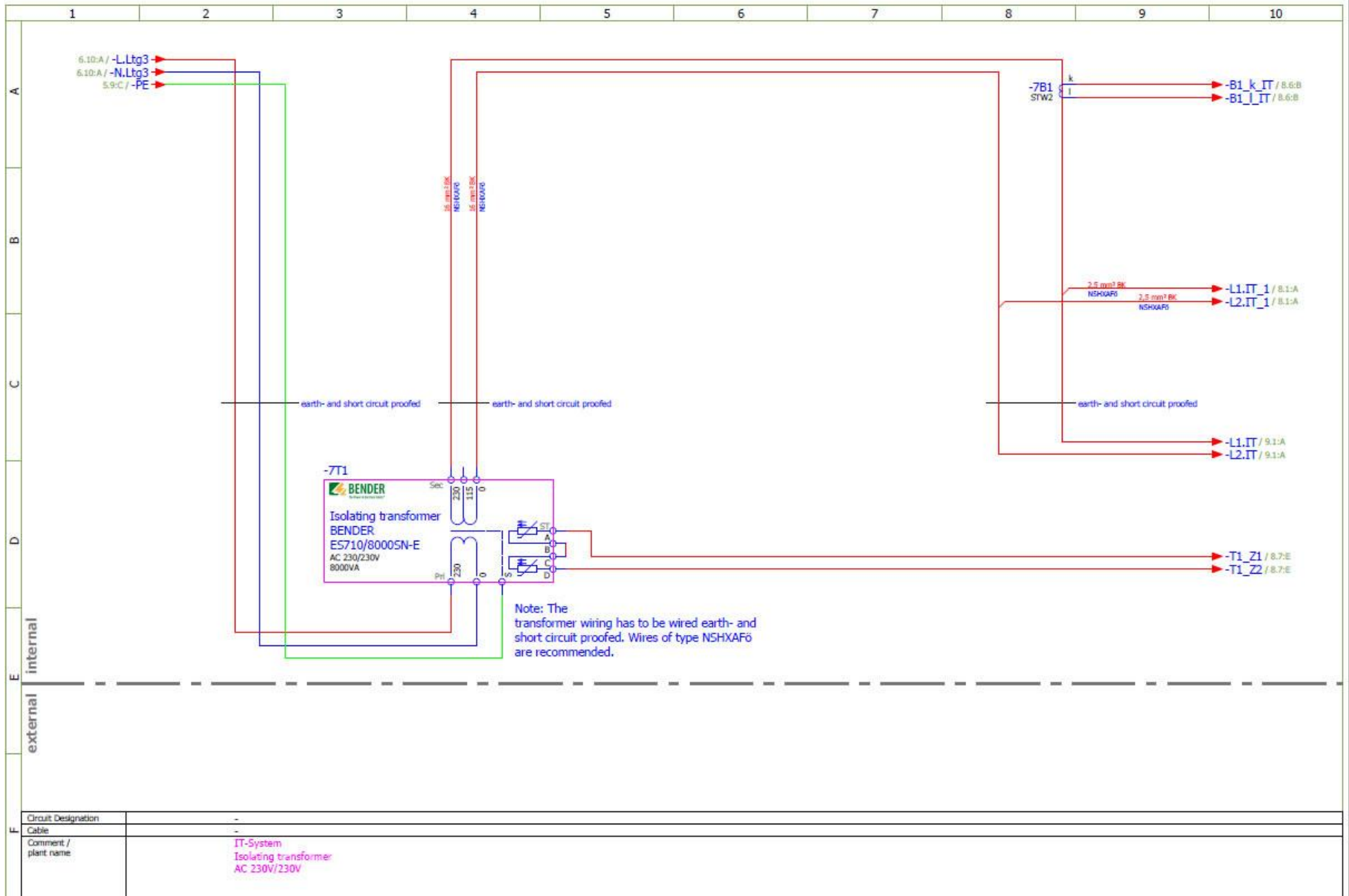
D

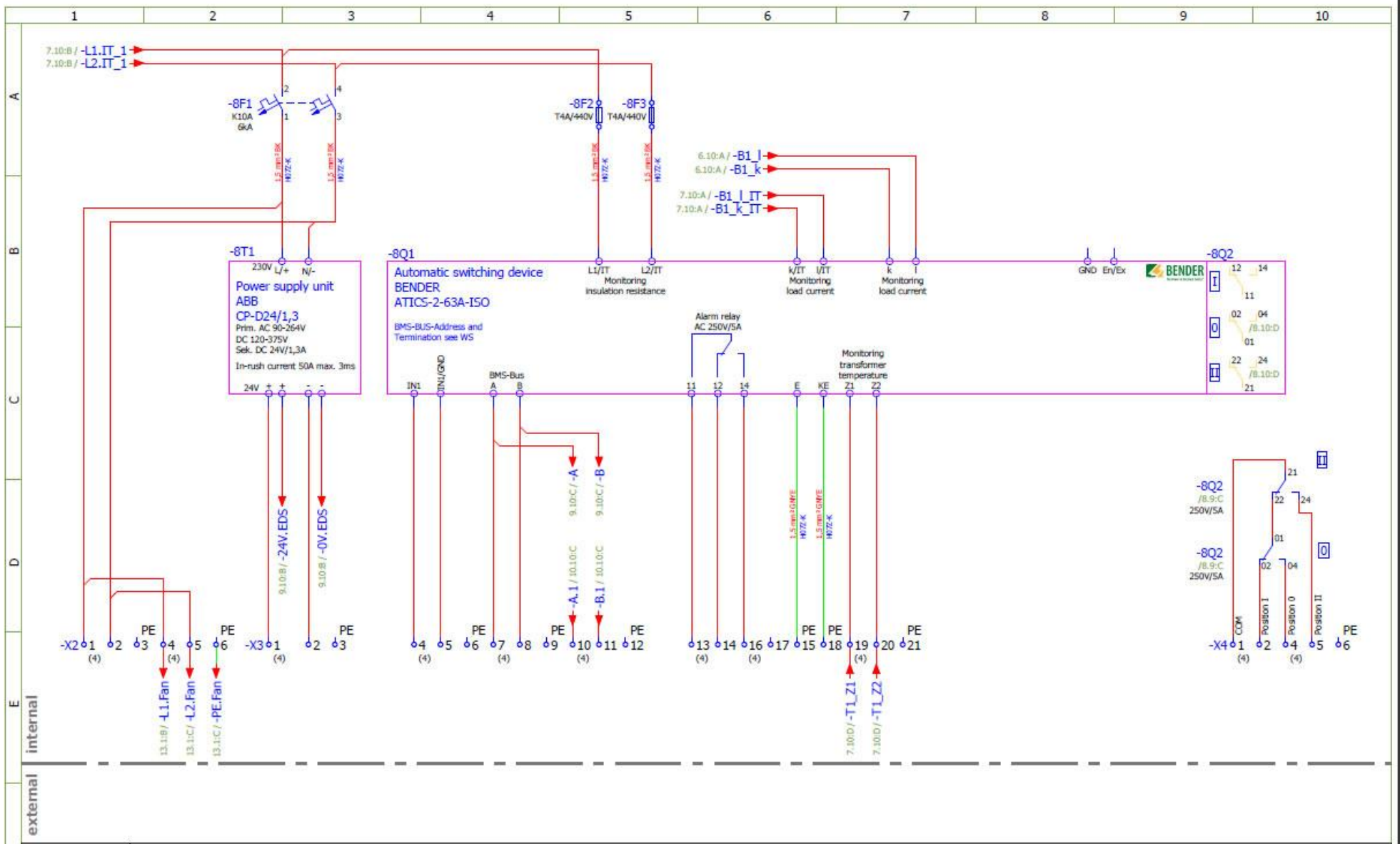
E internal

F external



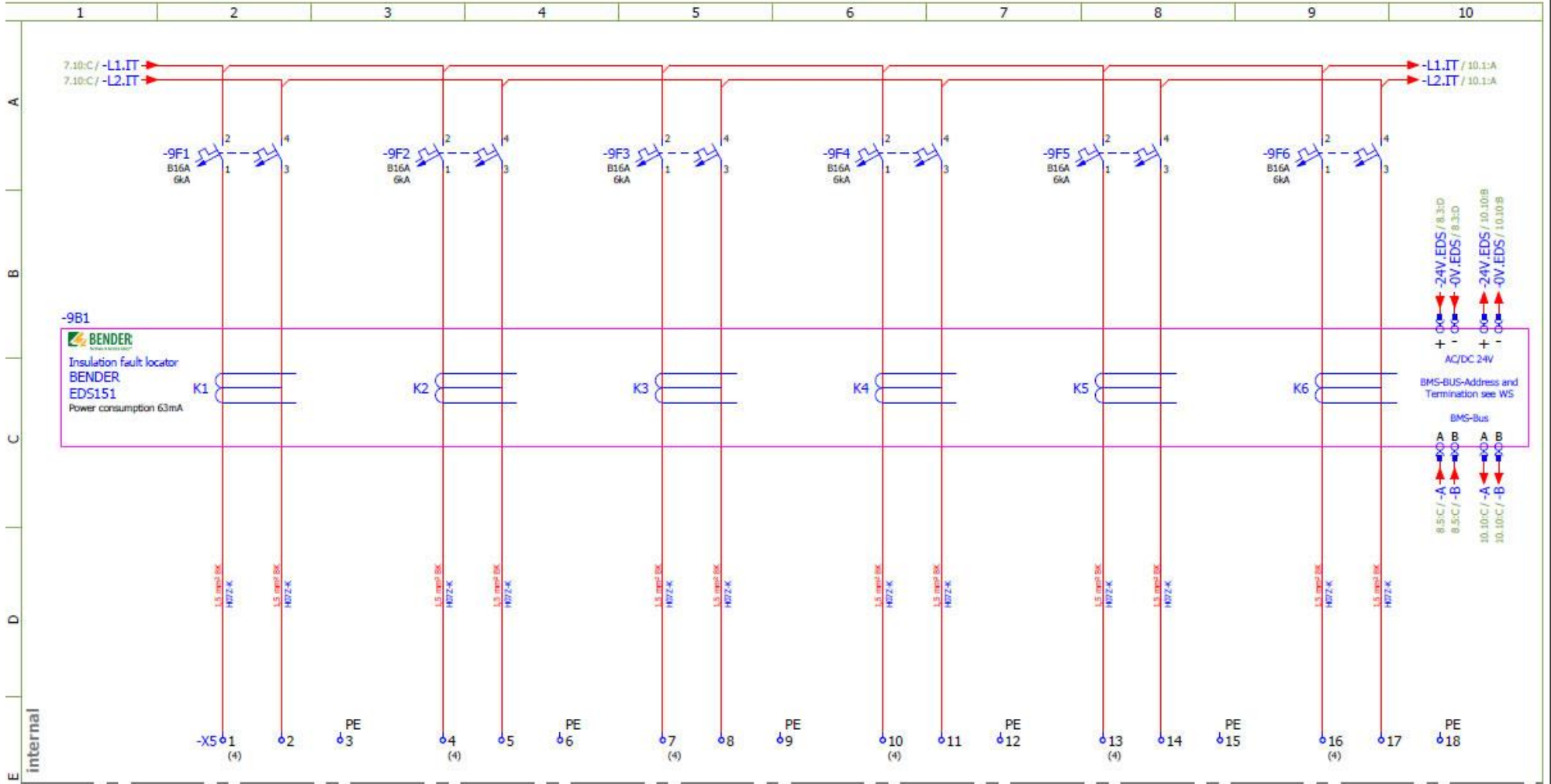
Circuit Designation	
Cable	
Comment / plant name	





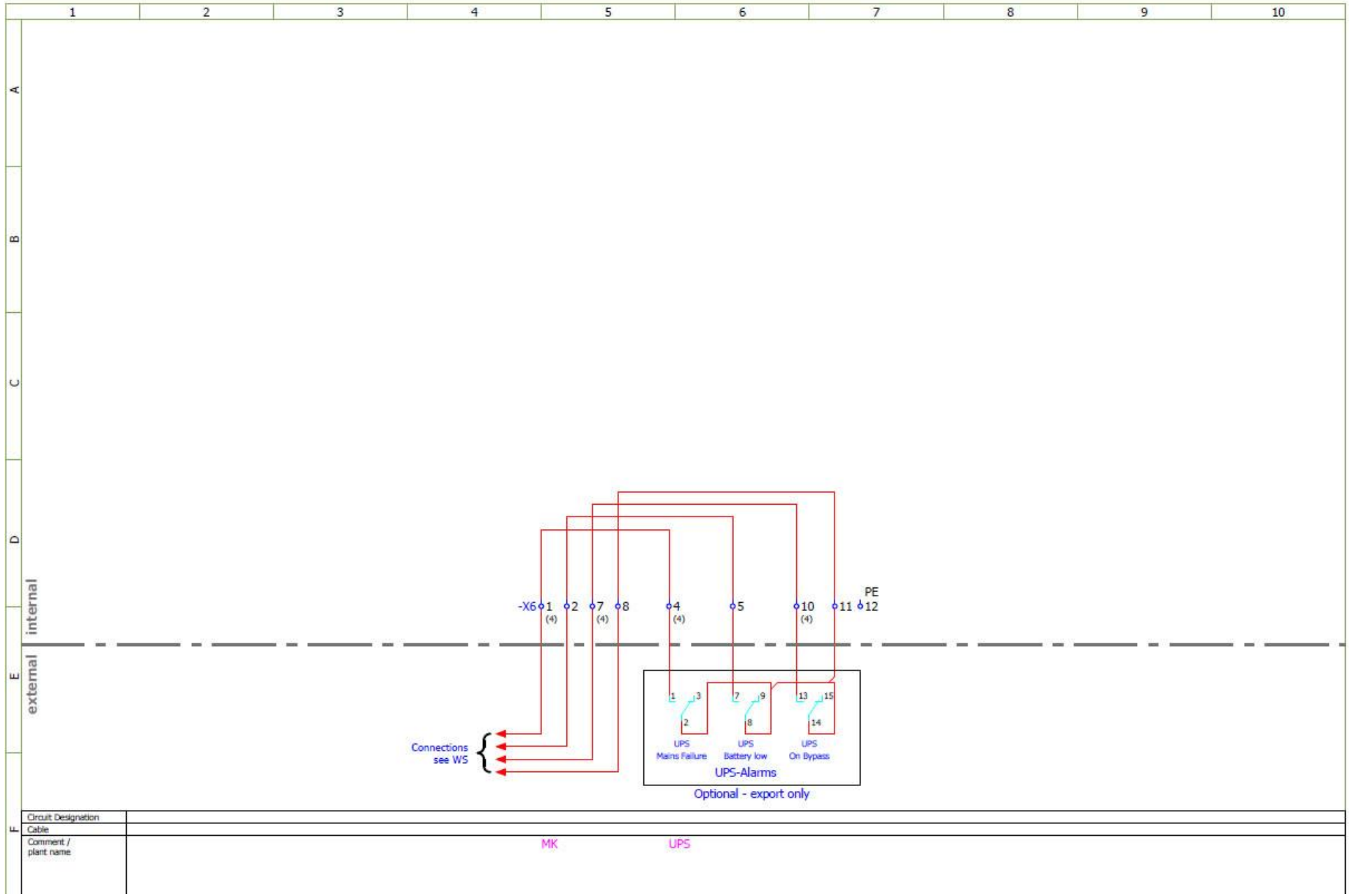
F	Circuit Designation	Comment / plant name
	-	Power supply auxiliary device 230V AC
	-	Power supply auxiliary device 24V DC
	-	digital input external test
	-	Interface BMS internal
	-	Interface BMS internal
	-	General fault adjustable
	-	Isolating transformer Temperature monitoring
	-	Alarm contacts ATICS position


Connections see WS



L	Circuit Designation	-	-	-	-	-	-	-	-
	Cable	-	-	-	-	-	-	-	-
	Comment / plant name	-	-	-	-	-	-	-	-

L	Circuit Designation	-	-	-	-	-	-	-	-
	Cable	-	-	-	-	-	-	-	-
	Comment / plant name	-	-	-	-	-	-	-	-



	1	2	3	4	5	6	7	8	9	10						
A																
B																
C																
D																
E	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <p style="margin: 0;">-12XE1 PE-Rail grounded</p>  <p style="margin: 0;">24x(16)</p> </div>															
F	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <p style="margin: 0;">external</p> </div>															
	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <p style="margin: 0;">internal</p> </div>															
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