

without shutter

01	01	New logo	FACEZTP18Acs16022	12/02/16
00	01	New Drawing		17/02/14
Rev.	Ver.	Description	Doc. Ref.	Date

REVISIONS

Drawn by:	Checked by:	Approved by:
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Reference:	Date: 12/02/16	
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**SERGI**

TRANSFORMER PROTECTOR

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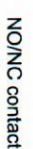
[illegible]


CONTROL BOX COMPONENTS LEGENDS									
	Converter DC/DC								
	Relay coil								
	Key switch NO								
	Fuse								
	Isolator								
	Timer (Time delay on)								
	Key switch NC								
	Buzzer								
	NO contact								
	Push button NO								
	LED								
	Double pole circuit breaker								
	NC contact								
	Push button NC								
	Diode								
	Electronic circuit breaker								
	NO/NC contact								
	Timer NO contact								
	Isolation valve sensor								
	Symmetric Timer								
	Symmetric Timer contact								
	Rupture disk burst indicator								

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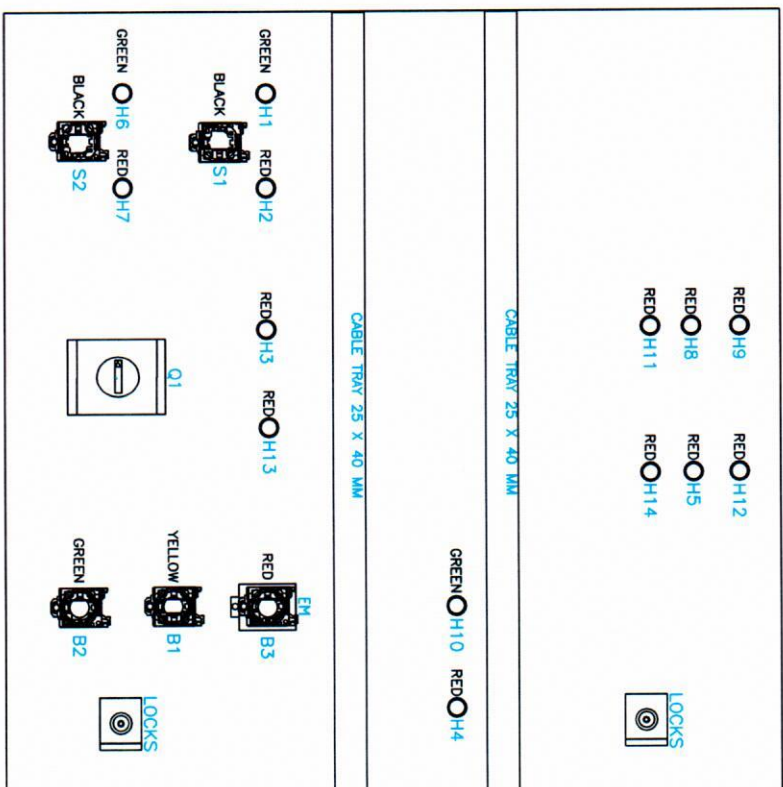
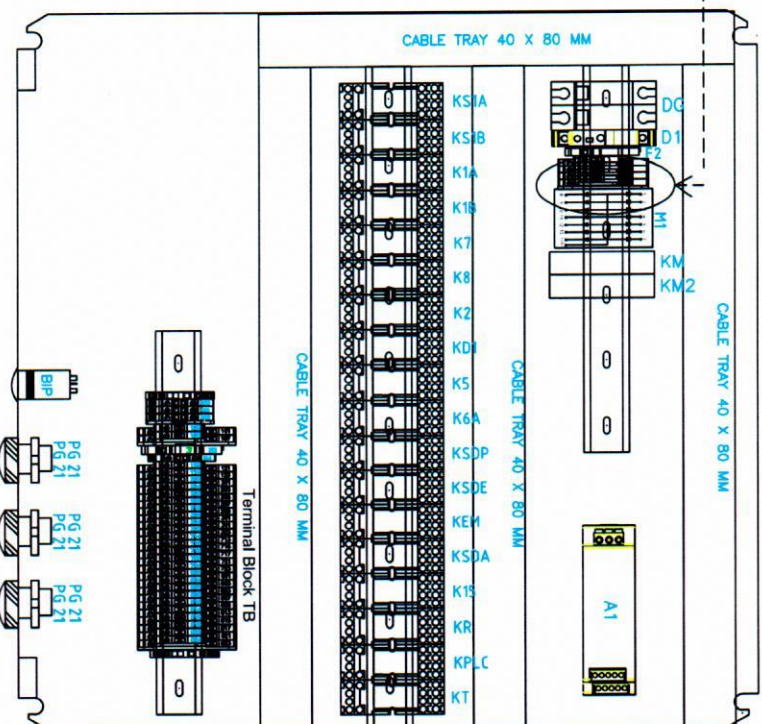
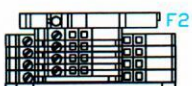
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Title Electrical Diagrams TPA, without shutter	Date: 12/02/16	Reference: 12 21 160 0001 0048+01
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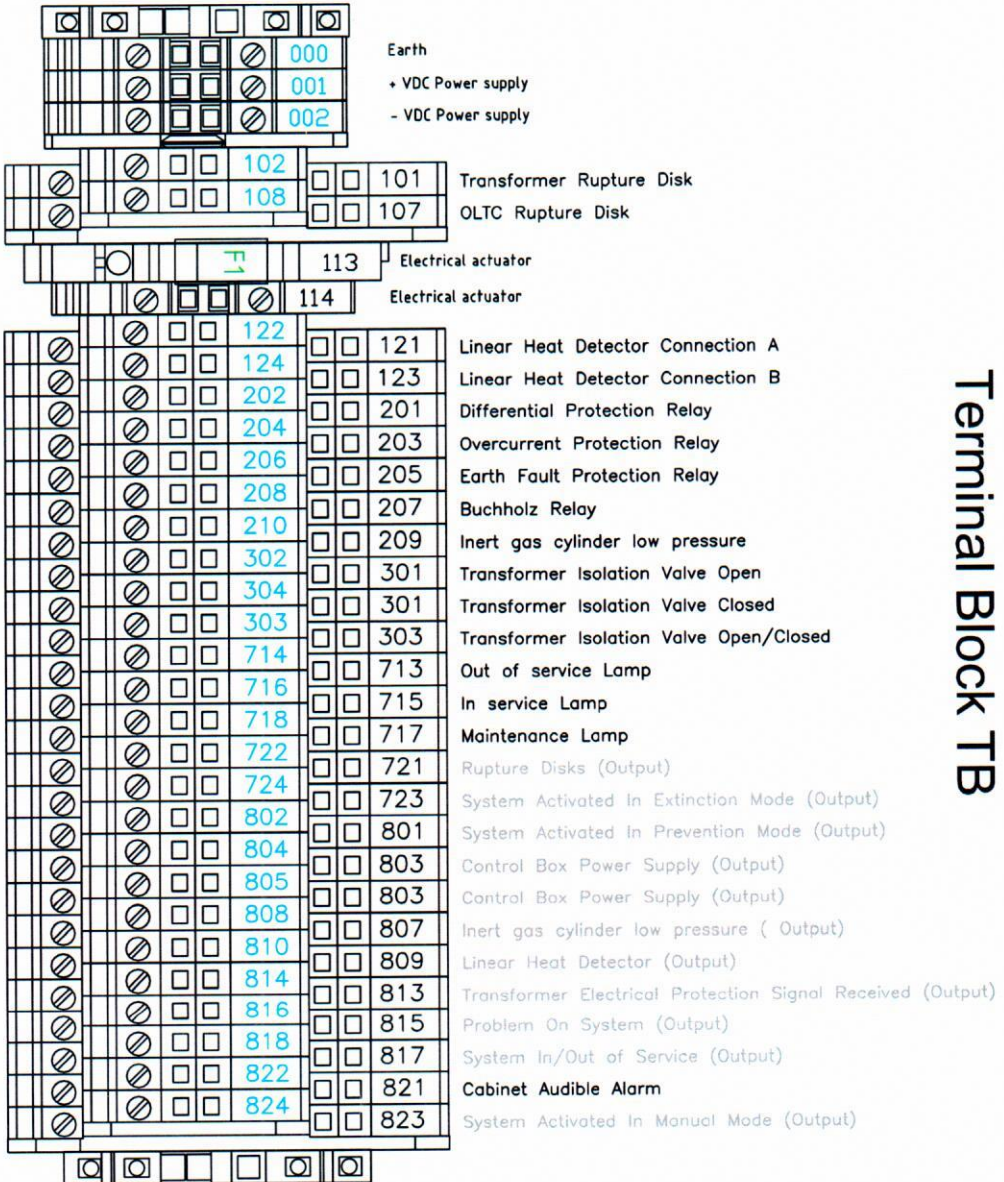
EXTRACT VIEW OF TERMINALS IN PAGE 4




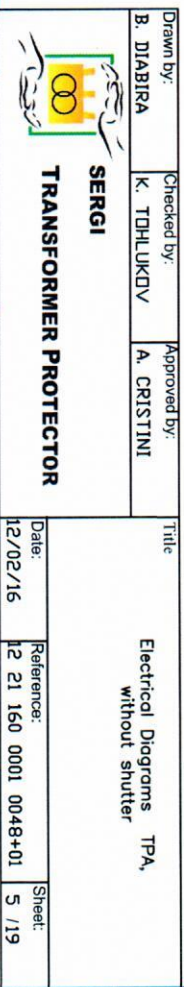
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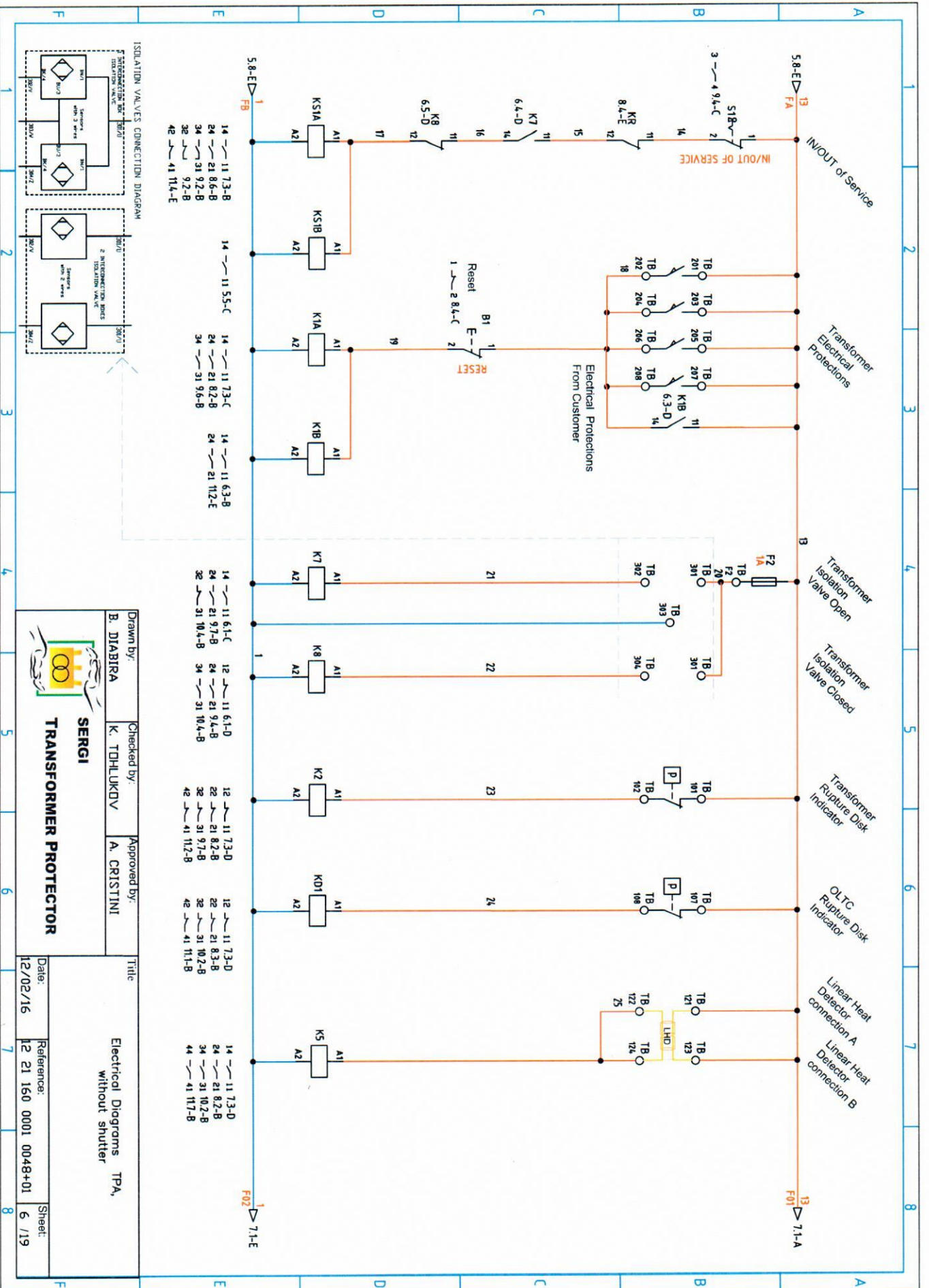
EXTRACT VIEW FROM PAGE 3


Terminal Block TB

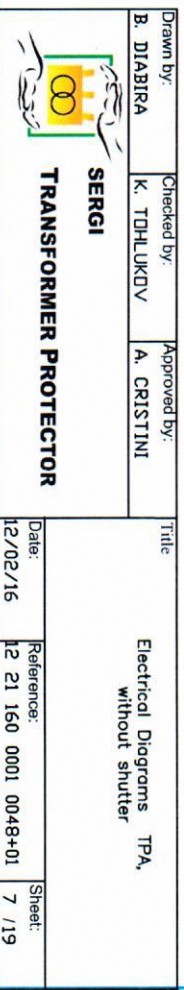


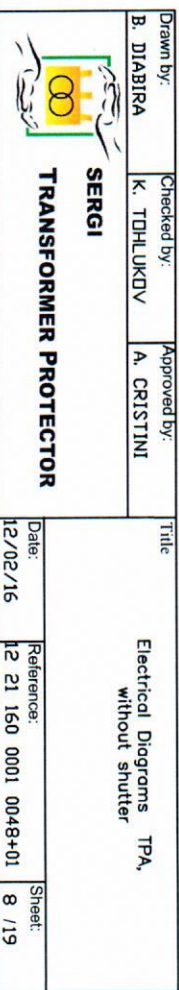
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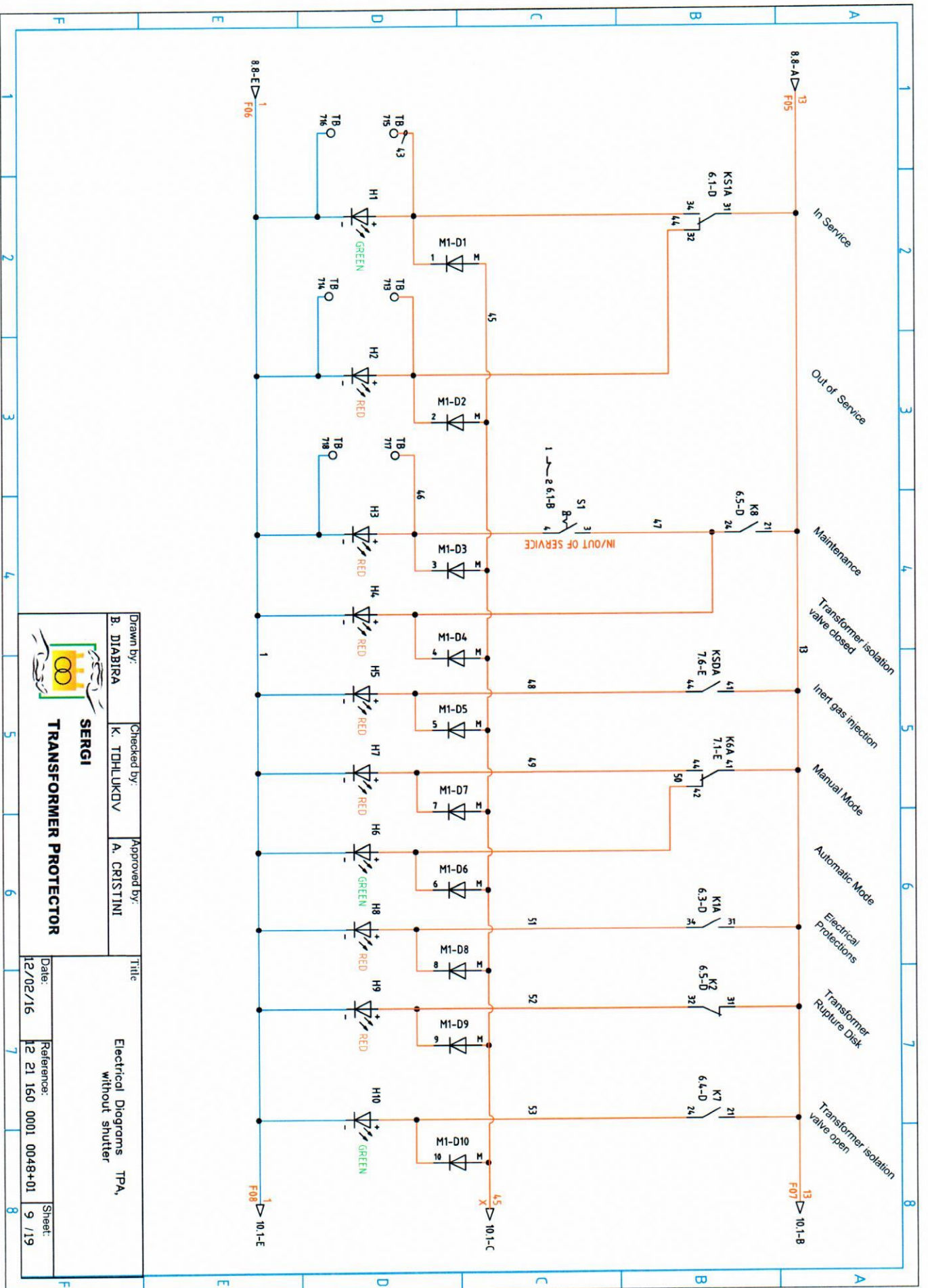




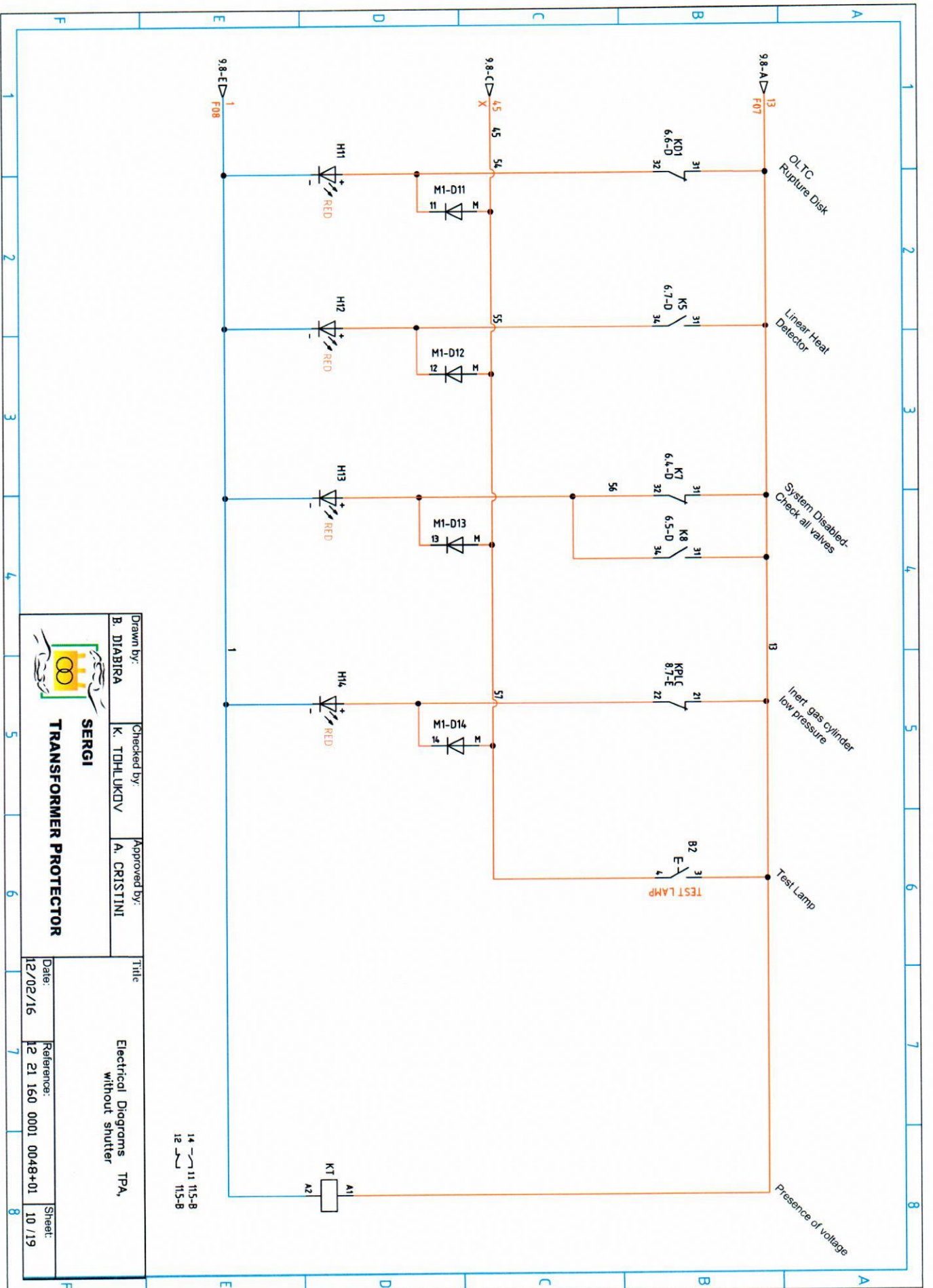
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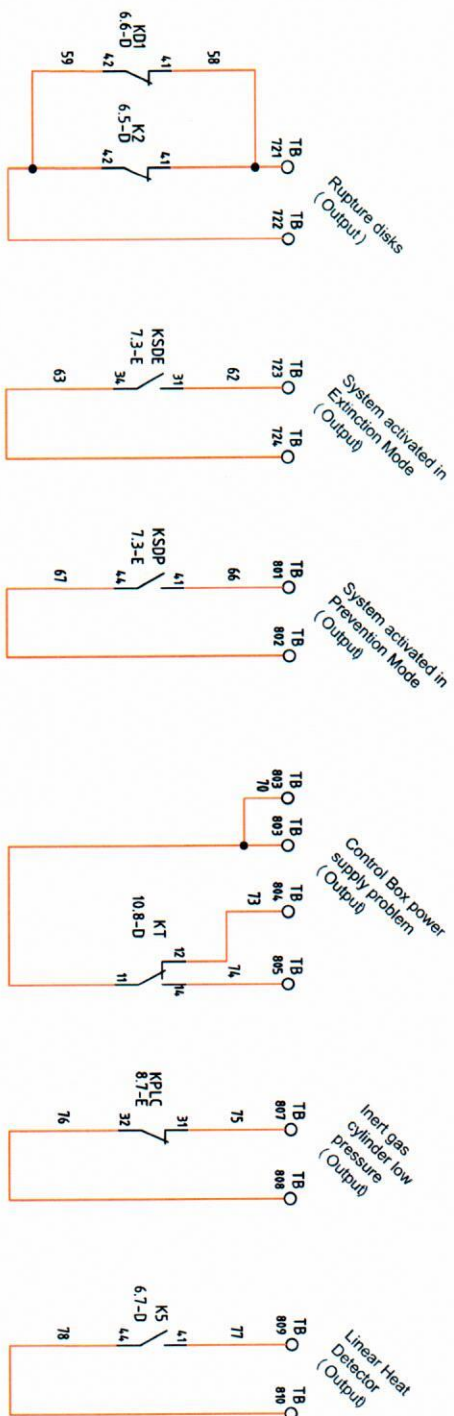


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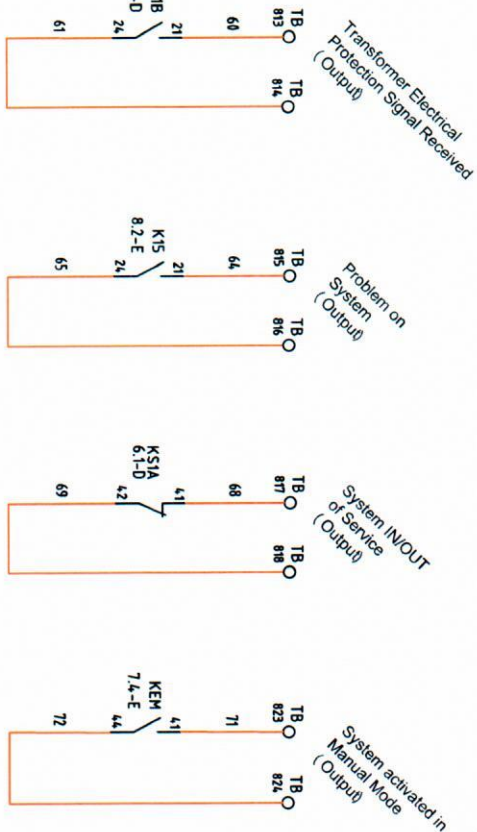



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TO REMOTE MONITORING SYSTEM



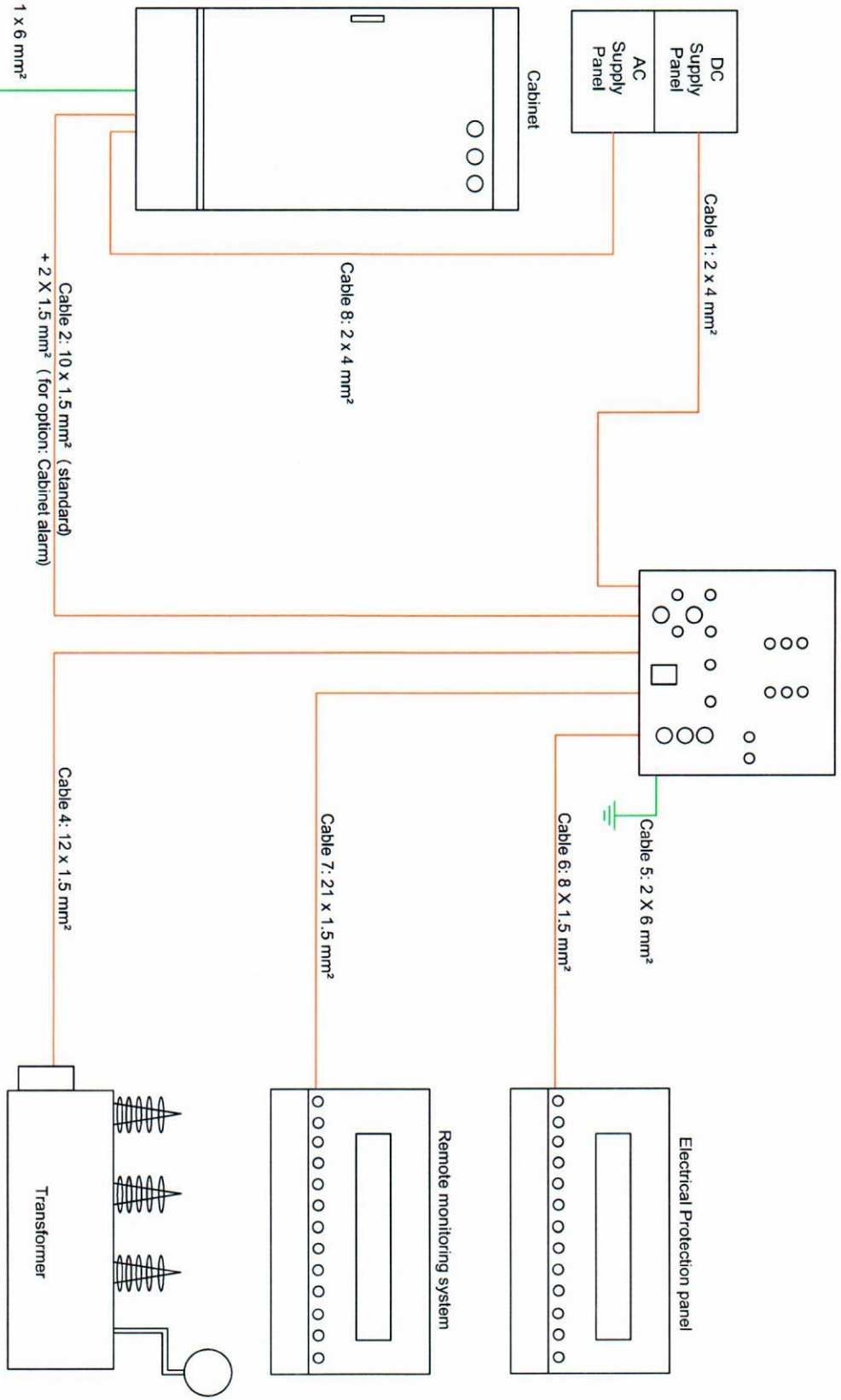
TO REMOTE MONITORING SYSTEM




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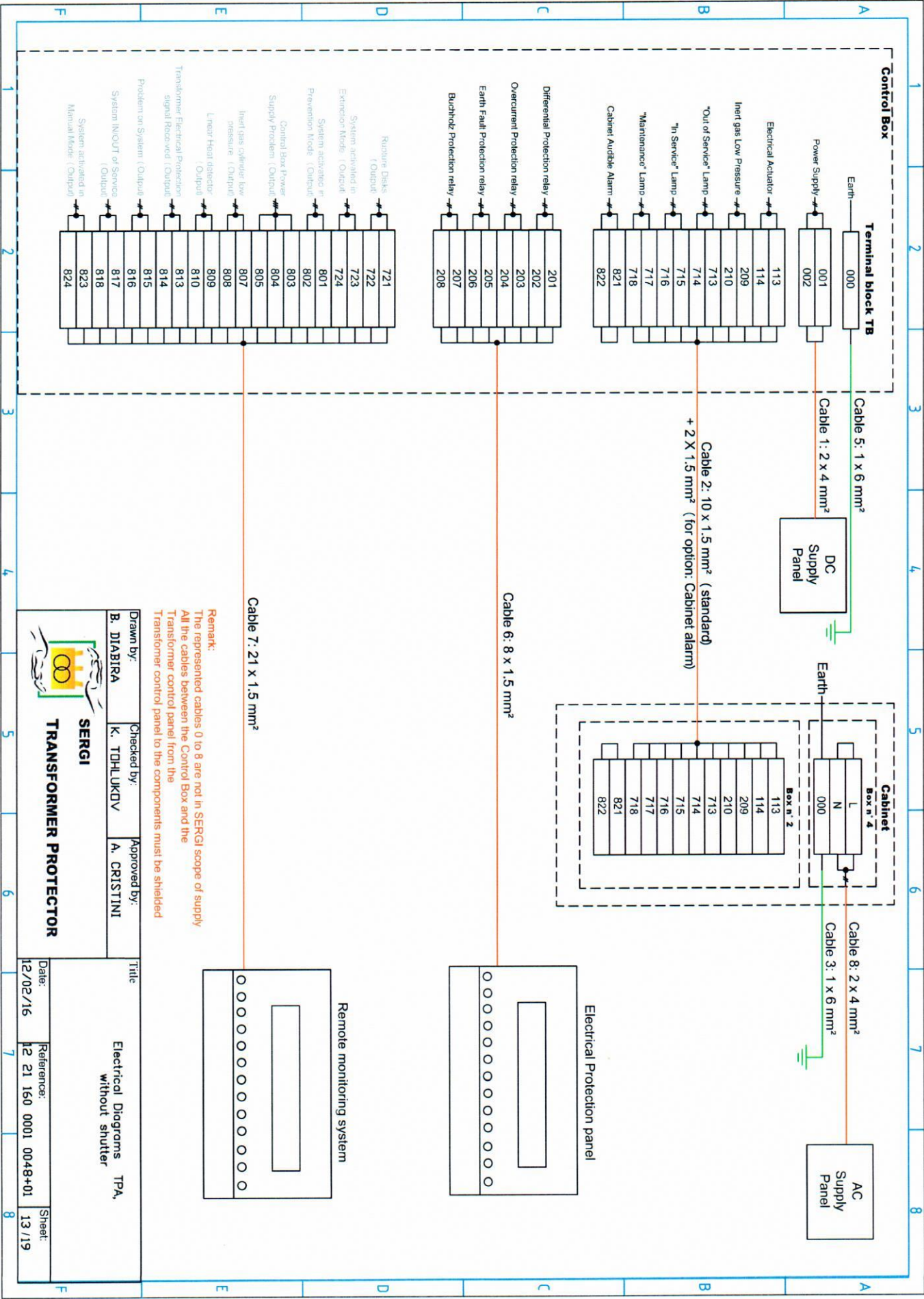
SERGI components interconnection diagram

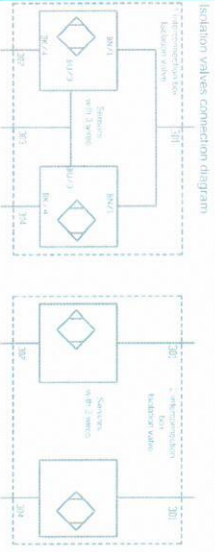
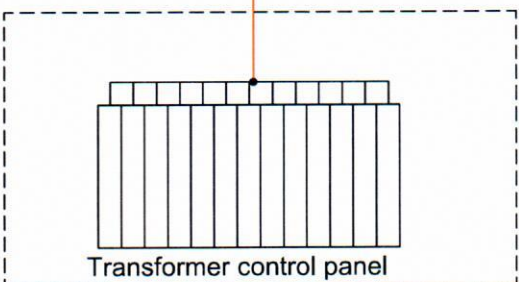
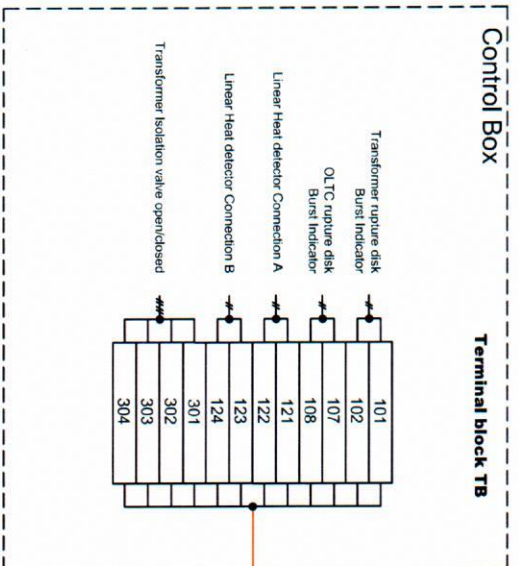
Control Box




Remark:
The represented cables 0 to 8 are not in SERGI scope of supply
All the cables between the Control Box and the Transformer control panel from the Transformer control panel to the components must be shielded

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Remark:
The represented cables 0 to 8 are not in SERGI scope of supply
All the cables between the Control Box and the Transformer control panel from the Transformer components must be shielded

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Terminal Diagram Connection between Control Box and Isolation Valve

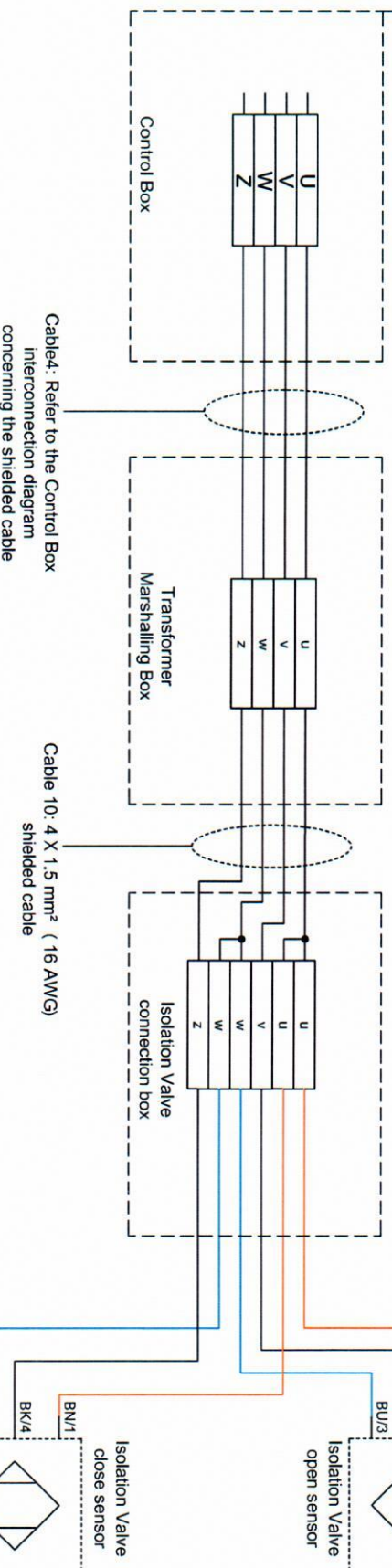
Control box multi isolation valves terminals:

Transformer

OLTC

OCB/OBCB


U : 301 / 305 / 309 || 313 / 317 / 321 || 701 / 705 / 709 / 725 / 729 / 733
V : 302 / 306 / 310 || 314 / 318 / 322 || 702 / 706 / 710 / 726 / 730 / 734
W: 303 / 307 / 311 || 315 / 319 / 323 || 703 / 707 / 711 / 727 / 731 / 735
Z : 304 / 308 / 312 || 316 / 320 / 324 || 704 / 708 / 712 / 728 / 732 / 736




Remark:

The represented cables 0 to 8 are not in SERGI scope of supply
All the cables between the Control Box and the Transformer control panel from the Transformer control panel to the components must be shielded

Remark:
Sensor wires colour
BN/1 - BROWN
BK/4 - BLACK
BU/3 - BLUE


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Date:	Reference:	Sheet:	
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1		2	3	4	5	6	7	8
REPÈRES	DESCR	DESCRIPTION	QTE	CATALOGUE	FABRICANT			
A	DG	DOUBLE POLE CIRCUIT BREAKER C60 H-DC 500VDC 1A 2P C	1	A9N61521	SCHNEIDER ELECTRIC			
		CASE (600 X 600 X 210 MM)	1	AE1060.500	RITTAL			
		CASE FIXATION SUPPORT	4	KL 1590.000	RITTAL			
		RAIL DIN SUPPORTS	1	NSYEDCO	SCHNEIDER ELECTRIC			
B	KM	TIMER 30 MIN	2	RE178AMU	SCHNEIDER ELECTRIC			
	KM2	TIMER 5 MIN						
C	K15	PROBLEM ON SYSTEM- RELAY+BASE	18	RXM4AB2BD	SCHNEIDER ELECTRIC			
	K1A	TRANSFORMER ELECTRICAL PROTECTION- RELAY+BASE						
	K1B	TRANSFORMER ELECTRICAL PROTECTION- RELAY+BASE						
	K2	TRANSFORMER RUPTURE DISK- RELAY+BASE						
	K5	LINEAR HEAT DETECTOR- RELAY+BASE						
	K6A	AUTO/MANUAL MODE- RELAY+BASE						
	K7	TRANSFORMER ISOLATION VALVE OPEN- RELAY+BASE						
	K8	TRANSFORMER ISOLATION VALVE CLOSED- RELAY+BASE						
	KEM	OLTC RUPTURE DISK- RELAY+BASE						
	KD1	MANUAL ACTIVATION- RELAY+BASE						
	KPLC	INERT GAS CYLINDER LOW PRESSURE LOW- RELAY+BASE						
	KR	PROBLEM ON SYSTEM- RELAY+BASE						
	KS1A	IN/OUT OF SERVICE- RELAY+BASE						
	KS1B	IN/OUT OF SERVICE- RELAY+BASE						
	KSDA	SYSTEM ACTIVATED- RELAY+BASE						
	KSDP	EXTINCTION MODE- RELAY+BASE						
	KT	PREVENTION MODE- RELAY+BASE						
D								
		RELAY BASE	18	RXZE2M114M	SCHNEIDER ELECTRIC			
		SOCKET FOR RELAYS TYPE RXM						
		24 VDC						
		SOCKET						
		12 55 332 0000 0004 + 01						
E	LOCKS	LOCK	2	SZ 2571.000	RITTAL			
		SECURITY LOCK						
		CYLINDER INSERT						
		PACK OF 1 SET						
		12 21 439 0000 0002 + 00						
	01	ISOLATOR 12A	1	VC002	SCHNEIDER ELECTRIC			
		3-POLE SWITCH-DISCONNECTOR						
		12Amps						
		VCD						
		3-Pole Switch						
		12 55 331 0000 0016 + 00						

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1	2	3	4	5	6	7	8
REPERES	DESC1	DESCRIPTION	QTE	CATALOGUE	FABRICANT		
H1 H6 H10	GREEN LED GREEN LED GREEN LED	ROUND PILOT LIGHT Ø12 - IP 40 - GREEN - INTEGRAL LED - 24V - LUSS 12mm 24V GREEN XXL 12 55 346 0000 0002 + 00	3	XVA333	SCHNEIDER ELECTRIC		
H2 H3 H4 H5 H7 H8 H9 H11 H12 H13 H14	RED LED RED LED RED LED RED LED RED LED RED LED RED LED RED LED RED LED RED LED	ROUND PILOT LIGHT Ø12 - IP 40 - RED - INTEGRAL LED - 24V - LUSS 12mm 24V RED XXL 12 55 346 0000 0001 + 00	11	XVA334	SCHNEIDER ELECTRIC		
	LED GASKET	FIBRE WASHERS M12 Ø12 mm IP 65 12mm 12 51 227 0012 XXXX + XX	14	530270	RADIOSPARS		
B2	"LAMP TEST" BUTTON HEAD	PUSH BUTTON - Ø22 - GREEN 22mm GREEN SHAPE OF HEAD=ROUND 12 55 345 0000 0007 + 00	1	ZB4BA3	SCHNEIDER ELECTRIC		
B3	"MANUAL ACTIVATION" BUTTON HEAD	PUSH BUTTON - Ø22 - RED 22mm RED SHAPE OF HEAD=ROUND 12 55 345 0000 0006 + 00	1	ZB4BA4	SCHNEIDER ELECTRIC		
B1	"RESET" BODY+ BUTTON HEAD	PUSH BUTTON - Ø22 - YELLOW 22mm YELLOW SHAPE OF HEAD=ROUND 12 55 345 0000 0011 + 00	1	ZB4BA5	SCHNEIDER ELECTRIC		
S2	"AUTOMATIC/MANUAL" BUTTON HEAD	SELECTOR SWITCH HEAD KEYLOCK - 2 POSITIONS, LEFT WITHDRAWAL, KEY NO.455 22mm BLACK ACCESSORY SHAPE OF HEAD - ROUND, PUSH TYPE - KEYLOCK, FOR X84 SWITCHES 12 55 345 0000 0005 + 00	1	ZB4BG2	SCHNEIDER ELECTRIC		
S1	"IN SERVICE/OUT OF SERVICE" BUTTON HEAD	SELECTOR SWITCH HEAD KEYLOCK - 2 POSITIONS, LF AND RH WITHDRAWAL, KEY NO.458A 22mm BLACK ACCESSORY SHAPE OF HEAD - ROUND, PUSH TYPE - KEYLOCK, FOR X84 SWITCHES 12 55 345 0000 0004 + 00	1	ZB4BG410	SCHNEIDER ELECTRIC		
B2 B3 S2	"LAMP TEST" BODY+ 1 NC "MANUAL ACTIVATION" BODY+ 1 NO "AUTOMATIC/MANUAL" BODY+1 NO	BODY FOR CONTROL BUTTON - Ø22 - 1NO 22mm CHROMIUM PLATED METAL 1 NO 12 55 345 0000 0009 + 00	3	ZB4B2101	SCHNEIDER ELECTRIC		
B1	"RESET" BODY+ 2 NC	BODY FOR CONTROL BUTTON - Ø22 - 2NC 22mm CHROMIUM PLATED METAL 2 NC 12 55 345 0000 0010 + 00	1	ZB4B2104	SCHNEIDER ELECTRIC		
S1	"IN SERVICE/OUT OF SERVICE" BODY+1 NO & 1 NC	BODY FOR CONTROL BUTTON - Ø22 - 1NO+1NC 22mm CHROMIUM PLATED METAL 1 NO 1 NC 12 55 345 0000 0012 + 00	1	ZB4B2105	SCHNEIDER ELECTRIC		
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1	2	3	4	5	6	7	8
REPÈRES	DESC1	DESCRIPTION	QTE	CATALOGUE	FABRICANT		
F1	FUSE (5 x 20) 2A	FUSE (5 x 20) 2A FAST ACTING 24 VDC 12 55 344 0000 0003 + 00	1	10220	LEGRAND		
F2	FAST ACTING FUSE 1A	FUSE (5 x 20) 1A FAST ACTING 24 VDC 12 55 344 0000 0004 + 00	1	10210	LEGRAND		
EM	LOCKABLE COVER	LOCKABLE COVER TRANSPARENT 12 55 345 0000 0001 + 00	1	024188	LEGRAND		
CABLE TRAY 25 X 40 MM	CABLE TRAY 25 x 40 MM	CABLE TRAY 25 x 40 MM 12 55 349 0025 0002 + 00	2	36201	LEGRAND		
CABLE TRAY 40 X 80 MM	CABLE TRAY 40 x 80 MM	CABLE TRAY 40 x 80 MM 12 55 349 0040 0002 + 00	5	36208	LEGRAND		
	DIN RAIL	STEEL DIN RAIL EN 50022 (35mm x 7.5mm) 35mm x 7.5mm SLOTTED 12 55 330 0035 2000 + 00	4	37404	LEGRAND		
D1	ELECTRONIC CIRCUIT BREAKER 2A, SIGNAL CONTACT: 1 N/O	ELECTRONIC CIRCUIT BREAKER 2A, SIGNAL CONTACT: 1 NO 1-POLE CIRCUIT BREAKERS 24MPS EC-E1 2A 12 55 331 0000 0019 + 00	1	0903024	PHOENIX CONTACT		
PG 21	CABLE GLAND & NUT	PG21 CABLE GLAND & NUT 12 55 340 PG21 XXXX + XX	6	1561021	WURTH		
A1	CONVERTER QUINT 24 VDC/5A	P/S CONVERTER QUINT 5A INPUT VOLTAGE : 90 /250 VDC OUTPUT VOLTAGE 24 VDC / 10A 12 55 337 010 XXXX + XX	1	2866750	PHOENIX CONTACT		
M1	DIODES SUPPORT (14)	DIODES SUPPORT (14 DIODES) 24 VDC 12 55 339 0000 0001 + 00	1	2950129	PHOENIX CONTACT		
BIP	BUZZER	BUZZER 24V HORN 12 55 348 0000 0002 + 02	1	85SP-B30SE22	ROCKWELL AUTOMATION		

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