

D					
C					
B					
A					
Indice Index	Data Date	Modificare Modification/Revision	Proiectant Designer	Aprobat Consultant Approved Consultant	Aprobat CFR Approved CFR



C.N.C.F. "C.F.R." - S.A.

CLIENT / CLIENT



CONSULTANT / CONSULTANT

		Șef proiect Project manager	R. Liuzza	Data Date	Semnătură Signature
Aprobat Approved	Proiect manager				<i>[Signature]</i>
Aprobat Approved	Coordonator Secțiune 1 Section 1 Coordinator		C. Gambelli		<i>[Signature]</i>
Verificat Checked	Tunel Expert Tunnel Expert		C. Gambelli		<i>[Signature]</i>
Intocmit Elaborated	Proiectant Designer		P. Amodio		<i>[Signature]</i>

SUBCONSULTANT / SUBCONSULTANT

Aprobat Approved	Responsabil Subconsultant Subconsultant Responsible		
Intocmit Elaborated	Proiectant Designer		
Reabilitarea liniei de cale ferata Brașov - Simeria, parte componentă a coridorului IV Pan European, pentru circulația trenurilor cu viteză maximă de 160 km/h. Secțiune 1 Brașov - Sighisoara		Project/Project 2004/RO/16/P/PA/003	
Rehabilitation of the railway line Brașov - Simeria, component Part of the IV Pan-European Corridor, for the trains circulation with maximum speed of 160 km/h. Section 1 Brașov - Sighisoara		Faza / Phase: P.Th. / T.D.	

Denumire desen / Drawing Title : **TUNNEL/TUNELUL HOMOROD**

RACOS SIDE/INSPRE RACOS

Safety Tunnel Power Supply system /Sistem de alimentare de siguranță a tunelului
Single-line diagrams low-voltage electrical panels Q_BT/Diagrame single-line cadru electrice joasa tensiune Q_BT/PE

Codificare / Codification System

Scara / Scale

LOT

Nr. / No

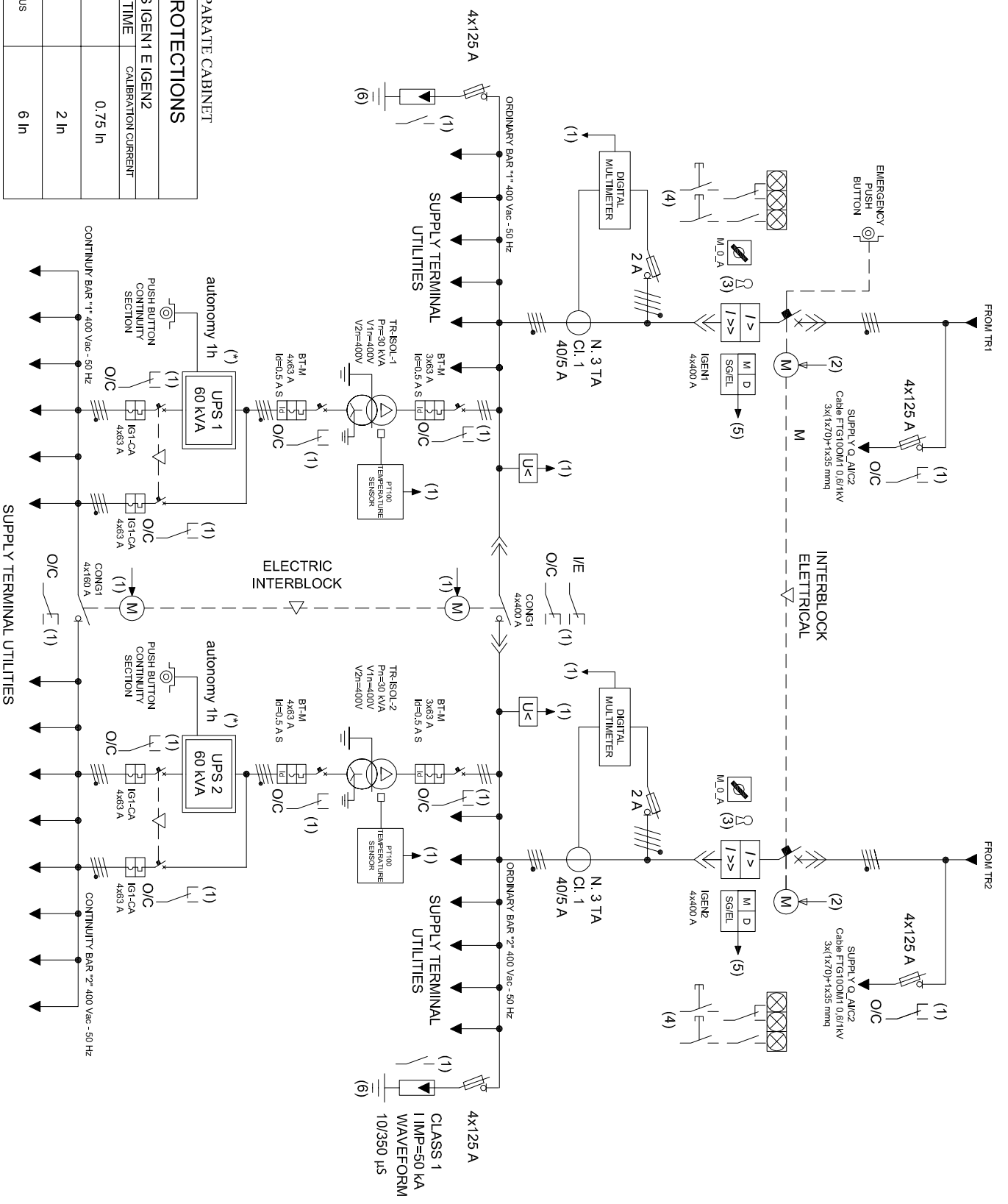
E A 5 1 0 1 C 1 2 L X T S 2 0 7 6 0 0 3 0

1	2	3	4	5	6	7	8		
ELECTRICAL CHARACTERISTICS/ CARACTERISTICILE ELECTRICE		MECHANICAL CHARACTERISTICS/ CARACTERISTICILE MECANICE		CONDITIONS OF SERVICE CONDITII DE SERVICE					
RATED INSULATION VOLTAGE/TENSIUNEA NOMINALA DE IZOLARE RATED WORKING VOLTAGE/TENSIUNEA DE LUCRU NOMINALA NOMINAL FREQUENCY/FRECVENTA NOMINALA ELECTRICAL SYSTEM/SISTEMUL ELECTRIC		1000 V 400/230 V 50 Hz TN-S	FORM OF SEGREGATION/FORMA DE SEGREGARE MATERIAL/MATERIALE EXTERIOR PANEL THICKNESS/ GROSIMEA PANOLULUI EXTERIOR CARPENTRY/TAMPLARIE		3A ACCIAIO ZINCATO E VERNICIATO 15/10 mm	TEMPERATURE MAX./TEMPERATURA MAX. MEDIA AMBIENT TEMPERATURE/TEMPERATURII IN CAMERA MEDIA MINIMUM AMBIENT TEMPERATURE/TEMPERATURA IN CAMERA MINIMA RELATED HUMIDITY MAX/UMIDITATE RELATIVA MAX		+40°C -5°C 83% (23°C)	
MAXIMUM SHORT CIRCUIT CURRENT ALLEGED/Maximă Curent de scurt circuitului PRESUPUSA MAXIMUM SHORT CIRCUIT CURRENT ALLEGED/Maximă Curent de scurt circuitului PRESUPUSA RATED CURRENT (BAR MAIN)/CURENT NOMINAL (BARUL PRINCIPAL) ACCEPTABLE RATED CURRENT/CURENT NOMINAL ACCEPTABIL SHORT FOR 1 SEC./SCURT PENTRU 1 SEC. RATED CURRENT/CURENT NOMINAL ALLOWABLE PEAK/ADMISIBILE PEAK NOMINAL VOLTAGE AUXILIARY CIRCUITS/ TENSIUNEA NOMINAL CIRCUITELOR AUXILIARE NOMINAL VOLTAGE AUXILIARY CIRCUITS/ TENSIUNEA NOMINAL CIRCUITELOR AUXILIARE		400 A 105 kA 254 kA 230 Vac / 24 Vdc 2500 V 1500 V 8 kV	DEGREE OF PROTECTION/ GRAD DE PROTECTIE IP41 ON THE EXTERNAL INVOLUCRE/ PE EXTERIOR LOCUNTE IP20 WITHIN THE PANEL AT OPEN DOORS/ IN CADRULA UN DESCHISE USI		ALTITUDE ABOVE SEA LEVEL/ALTITUDINEA PRESSURE-DEPRESSION/PRESIUNE-DEPRESIA		COMPLIANCE WITH REGULATIONS/RESPECTAREA REGLEMENTARILOR CEI ITALIANE IEC INTERNAZIONALI OTHERS/ALTE		<1000 mt
TEST VOLTAGE/TENSIUNEA DE TESTARE A 50 HZ FOR 1 MIN./A 50 HZ PENTRU 1 MIN. AUXILIARY CIRCUITS/ CIRCUITELOR AUXILIARE IMPULSE WITHSTAND VOLTAGE/TENSIUNEA DE REZISTA LA IMPULS		2500 V 1500 V 8 kV	PANEL ACCESSIBILITY/ACCES CADRU EXPANDABLE PANEL/EXTENSIBIL CADRU FRONT/FATA BACK/INAPOI SIDE/LATERALE RIGHT SIDE/PARTEA DREAPTA LEFT SIDE/PARTEA STANGA		SI NO SI SI SI		FUND/PARTEA INFERIOARA FONDO CHIUSO/BOTOLA ASPORTABILE FRAME OR BASIC IRON/ FRAME SAU FIER DE BASE ACCIAIO ZINCATO		NOTE
TESTING/TESTAREA SEC. CEI 17-113 <input type="checkbox"/> TYPE TESTS/TESTE DE TIP <input checked="" type="checkbox"/> INDIVIDUAL TESTS/TESTE INDIVIDUALE SPECIFIC DESCRIPTION/DESCRIERE SPECIFICA: SBARRE PRINCIPALI E DERIVATE - IN PIATTO DI RAME E/O ALLUMINIO - ISOLAMENTO IN ARIA SBARRA DI TERRA - SEZIONE MINIMA 150 mmq		FRAME OR BASIC IRON/ FRAME SAU FIER DE BASE ACCIAIO ZINCATO		POWER/PUTERE ARRIVALS/SOSIRI DEPARTURES/PLECARI ENTRY/INTRARE OUTPUT/ESIRE HIGH/TOPURI LOW/JOASA HIGH/TOPURI LOW/JOASA HIGH/TOPURI LOW/JOASA HIGH/TOPURI LOW/JOASA		CAVO CAVO CAVO CAVO CAVO CAVO CAVO CAVO		CAVETTERIA PER CIRCUITI AUSILIARI: - TIPO N07G9-K - CAVETTERIA DI COLORE NERO SEZIONI: - CIRCUITI AMPEROMETRICI/VOLTIMETRICI >= 2.5 mmq - CIRCUITI DI COMANDO >= 1.5 mmq - CIRCUITI DI SEGNALAZIONE >= 1.5 mmq	
PAINTING/PICTURA (CYCLE NORMALIZED TGN-001)/ (CICLU NORMALIZAT TGN-001) SPESS. MIN. 50 MICRON ±10% OVERALL DIMENSIONS (mm)/ DIMENSUNI DE GABARIT (mm) SUBDIVISION SECTIONS/COMPARTIMENTARE SECTIUNI TOTAL MASS/TOTALE MASA		<input checked="" type="checkbox"/> EXTERNAL PANEL/ EXTERNE CADRU <input type="checkbox"/> INTERNAL PANEL/ INTERN CADRU RAL 7035 3950 LX 2231 HX 637 P		KG.					

A	1	2	3	4	5	6	7	8	A
A	<p>NOTES NUMBER (SEE SUBSEQUENT SHEETS)</p> <p>(1) SIGNAL OR COMMAND FROM-TO SUPERVISION SYSTEM</p> <p>(2) INTERLOCK WITH RELATIVE SWITCH MV</p> <p>(3) BUTTON BLOCK WITH LOCK</p> <p>(4) BUTTON SWITCH OPENING AND CLOSING:</p> <ul style="list-style-type: none"> • THE IGEN1 IGEN2 SWITCHES WILL BE ELECTRICAL INTERLOCKED SO ALLOW ONLY THE TEMPORARY PARALLEL BETWEEN TR1 AND TR2 • THE MOTORIZED SWITCHES MAY BE CONTROLLED BY THE SUPERVISION SYSTEM <p>(5) RS485 SERIAL COMMUNICATION SYSTEM TO SUPERVISION</p> <p>(6) THE LINKS BETWEEN THE SPD AND COLLECTOR TO LAND OF THE PANELS SHOULD HAVE A LENGTH LESS OR EQUAL TO 0.5 M</p> <p>(7) OPERATED BY LOCAL TEMPERATURE PROBE</p>								
B	<p>KEY TO ABBREVIATIONS:</p> <p>- Ib: OPERATING CURRENT, CALCULATED ACCORDING TO THE SIZE OF POWER [A] SWITCH</p> <p>- In: PROTECTION OF RATED CURRENT [A]</p> <p>- Ih: SETTING THE CURRENT RESPONSE THERMAL PROTECTION [A]</p> <p>- Idn: CALIBRATION OF DIFFERENTIAL CURRENT [A]</p> <p>- Im: CALIBRATION OF MAGNETIC ACTION OF THE PROTECTION OF CURRENT [A] CONTACTOR</p> <p>- In: CONTACTOR SIZE [A]</p> <p>- Pn: SCOPE OF CONTACTOR [kW]</p> <p>TA</p> <p>- I1n/I2n: CONVERSION RATIO OF CURRENT [A / A]</p> <p>TV</p> <p>- V1n/V2n: CONVERSION RATIO OF NOMINAL [v / v]</p> <p>POWER LINE</p> <p>- Iz: PERMISSIBLE CURRENT CABLE, CALCULATED ON THE BASIS OF FLOW RATE AND COEFFICIENTS DERATING ARISING FROM THE INSTALLATION MODE [A]</p> <p>- Cdt in Ib: PARTIAL LOSS OF POWER (PIPELINE DUE TO USERS ONLY) AND THE CURRENT Ib cosφ NOMINAL [%]</p> <p>- Cdt tot. in Ib: DROP VOLTAGE TOTAL (FROM THE VALLEY TO THE PROVISION OF USERS) AND THE CURRENT Ib cosφ NOMINAL [%]</p> <p>- Zk: MINIMUM IMPEDANCE FAULT OR THREE-PHASE NEUTRAL DOWNSTREAM USERS [mW]</p> <p>- Zs: Minimal impedance of phase-earth fault DOWNSTREAM USERS [mW]</p> <p>- Ik trifas. / SINGLE-PHASE.: MAXIMUM SHORT CIRCUIT CURRENT PERMANENT NEUTRAL-PHASE OR DOWNSTREAM USERS [kA]</p> <p>- Ik1 phase / earth: MAXIMUM SHORT CIRCUIT CURRENT PHASE-GROUND DOWNSTREAM USERS [kA]</p>								
C	<p>CHEIA ABBREVIERI:</p> <p>- Ib: Curent de operare, calculat în conformitate cu DIMENSIUNEA DE PUTERE [A] SWITCH</p> <p>- In: PROTECȚIA A Curent nominal [A]</p> <p>- Ih: STABILIRE PROTECȚIA RĂSPUNS ACTUAL termică [A]</p> <p>- Idn: CALIBRAREA DIFERENTIAL curent [A]</p> <p>- Im: CALIBRAREA DE ACȚIUNE MAGNETICE DE PROTECȚIE A curent [A] CONTACTOR</p> <p>- In: SIZE CONTACTOR [A]</p> <p>- Pn: DOMENIUL DE APLICARE A CONTACTOR [kW]</p> <p>TA</p> <p>- I1n/I2n: rata de conversie a curentului [A / A] televizor</p> <p>- V1n/V2n: rata de conversie nominală de [v / v]</p> <p>POWER LINE</p> <p>- Iz: CABLU ADMISE CURENTI, calculată pe baza debitului și coeficienți de declasare REZULTATE DIN MODUL DE INSTALARE [A]</p> <p>- Cdt în Ib: pierderi porționale de putere (PIPELINE CAUZA utilizatorilor numai), iar curentul Ib cosφ NOMINALE [%]</p> <p>- Cdt tot. în Ib: tensiunea totală DROP (DIN vale la dispozitie de utilizatori) și curentul Ib cosφ NOMINALE [%]</p> <p>- ZK: FAULT impedanta MINIMUM sau trei faze UTILIZATORI NEUTRE DOWNSTREAM [mW]</p> <p>- Zs: impedanta minima de fază-pământ vîna DOWNSTREAM Utilizatori [mW]</p> <p>- Trifas Ik / SINGLE-PHASE: MAXIM Curent de scurt CIRCUIT FAZA utilizatori permanenți NEUTRE-FAZA sau în oval [kA]..</p> <p>- Ik1 faza / pământ: maximă a circuitului, Curent de scurt FAZA-SOL UTILIZATORII DIN AVAL [kA]</p>								
D									
E									
F									

(*) DEVICE INSTALLED IN A SEPARATE CABINET

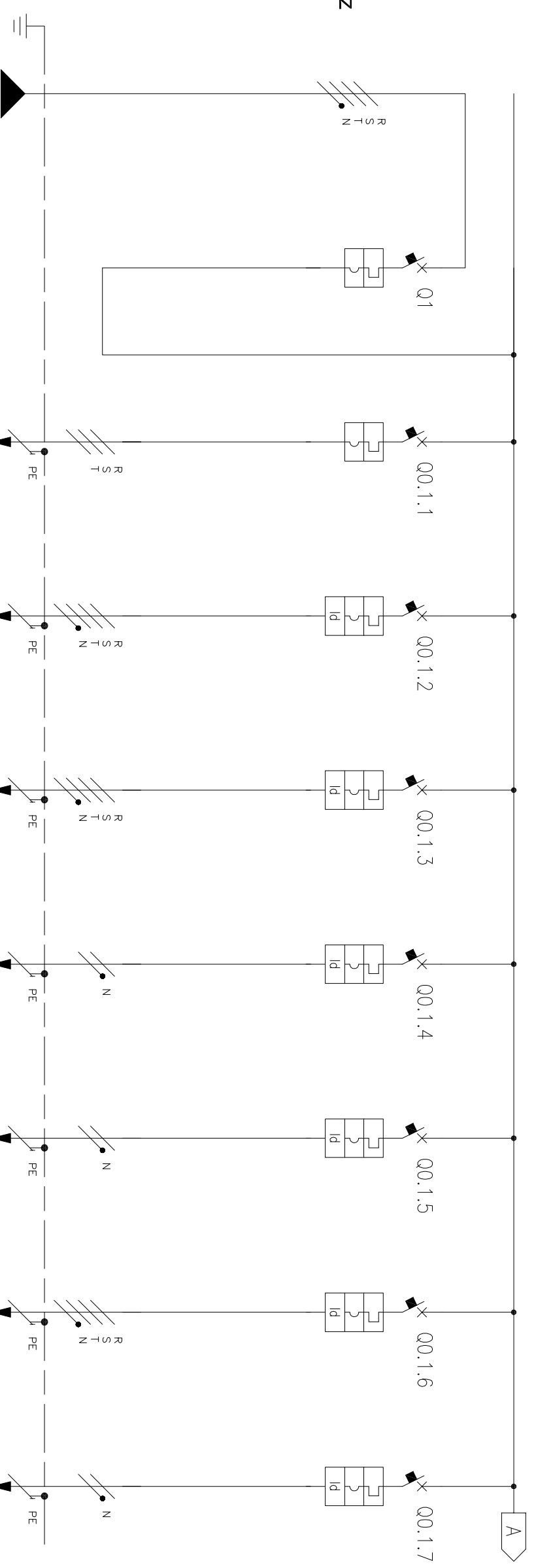
CALIBRATION PROTECTIONS		
CIRCUIT BREAKERS IGEN1 E IGEN2	CALIBRATION TIME	CALIBRATION CURRENT
LONG DELAY (L)	3s	0.75 In
SHORT DELAY (S)	0.5s	2 In
INSTANTANEOUS (I)	INSTANTANEOUS	6 In



(*) DEVICE INSTALLED IN A SEPARATE CABINET

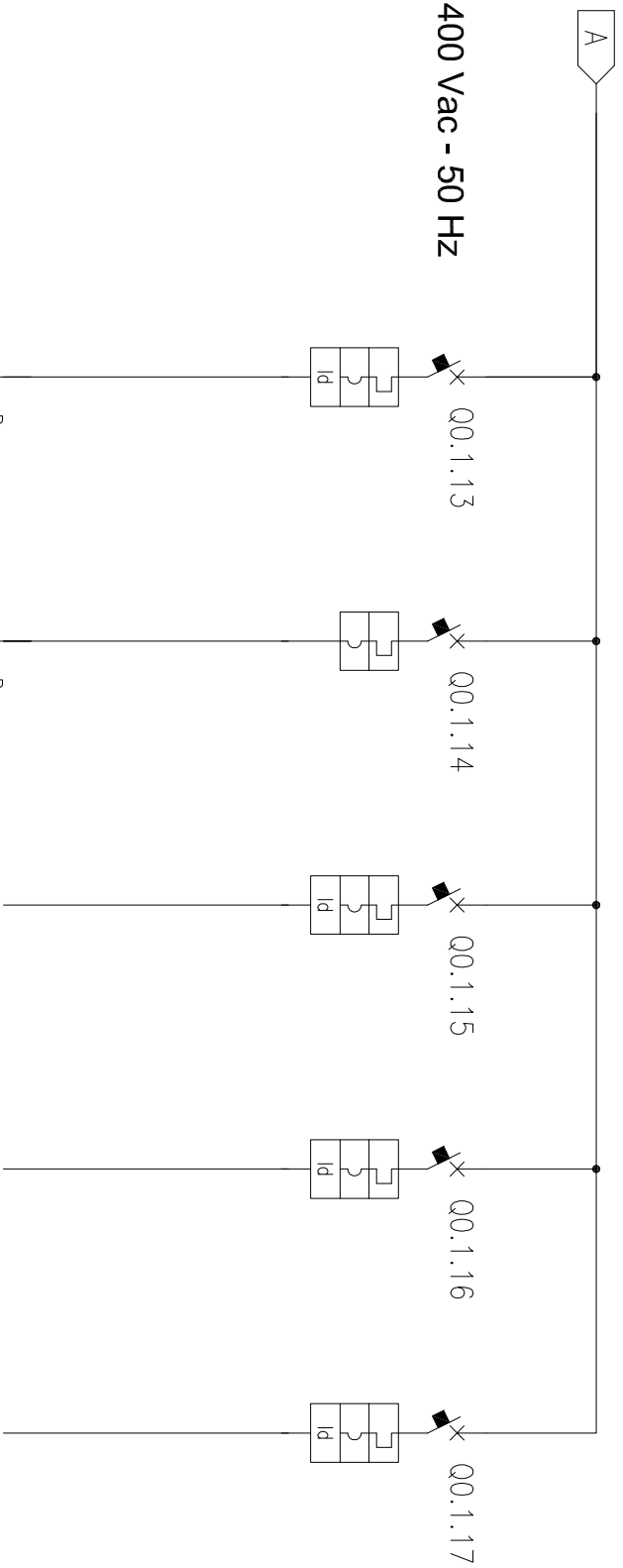
CALIBRATION PROTECTIONS		
CIRCUIT BREAKERS IGEN1 E IGEN2	CALIBRATION TIME	CALIBRATION CURRENT
LONG DELAY (L)	3s	0.75 In
SHORT DELAY (S)	0.5s	2 In
INSTANTANEOUS (I)	INSTANTANEOUS	6 In

ORDINARY BAR "1" 400 Vac - 50 Hz



TERMINAL NUMBER/TERMINAL NUMARUL	DISTRIBUTION DISTRIBUTION																		
NUMBER OF CIRCUIT NUMARUL DE CIRCUIT		RSTNPE																	
DESCRIPTION OF THE CIRCUIT DESCRIEREA A CIRCUITULUI																			
TYPE APPARATUS/TIP APARATURA																			
SWITCH/SWITCH	lcu [kA]																		
	N. POLI	In [A]																	
	CURVE RELEASES/CURBA DE PRESA		4P	400	3P	63	4P	25	4P	10	2P	16	2P	10	4P	16	2P	10	2P
				MicroL2.3		C		C		C		C		C		C		C	
	Ir [A]	tr [s]	144	0,9x	63		25		10		16		10		16		10		10
	I _{sd} [A]	t _{sd} [s]	1440	10x	630		250		100		160		100		160		100		100
	ii [A]																		
	Ig [A]	tg [s]																	
DIFFERENTIAL DIFFERENTIAL	TYPE/TIP	CLASS/CLASA																	
	I _{dn} [A]	t _{dn} [ms]																	
CONTACTOR CONTACTOR	TYPE/TIP	CLASS/CLASA																	
	COIL [V]	N. POLE	In [A]																
TERMIC	TYPE/TIP																		
FUSE	N. POLE		In [A]																
OTHER APP.	TYPE/TIP	MODEL																	
PIPELINE/PIPELINE	TYPE ISOLATION	POSE/INSTALAREA																	
	SECTION PHASE-N-PE/PEN [mmq]		EPR	13	EPR	13	EPR	13	EPR	13	EPR	13	EPR	11	EPR	13	EPR	11	EPR
	I _b [A]	I _z [A]	1x240	1x240	1x35	1x16	1x6	1x6	1x2,5	1x2,5	1x4	1x4	1x2,5	1x2,5	1x4	1x4	1x2,5	1x2,5	1x2,5
	U _n [V]	P _n [kW]	105,2	634	21,3	176	14,4	58	0,5	32	1,9	49	4,4	33	3,6	42	4,4	33	33
	I _{cc min} [kA]	I _{cc max} [kA]	400		400	11,8	400	8	400	0,25	230	0,4	230	0,9	400	2	230	0,9	0,9
BOTTOM LINE/FUND LINE	LENGTH/LUNGIMEA [m]	dv TOTAL [%]	7,8	9,8	4,6	6,8	0,1	0,4	0,4	1,2	0,6	1,6	0,5	1,3	0,8	2,2	0,6	1,6	1,6
NOTE			5	0	25	0,2	200	3,8	25	0,1	25	0,3	20	0,7	20	0,2	15	0,5	0,5

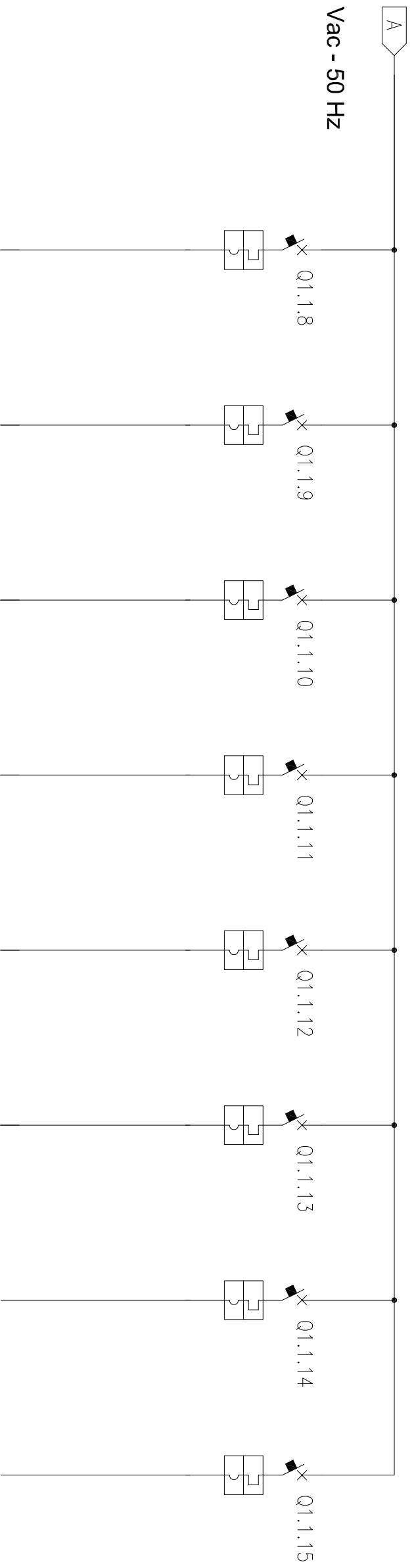
CONTINUITY BAR "2" 400 Vac - 50 HZ



TERMINAL NUMBER/TERMINAL NUMARUL	DISTRIBUTION DISTRIBUTION	17	18	19	20	21														
NUMBER OF CIRCUIT NUMARUL DE CIRCUIT		L0.1.13	L0.1.14																	
DESCRIPTION OF THE CIRCUIT DESCRIEREA A CIRCUITULUI		AL12 POWER SUPPLY UPS AUX	AL13 POWER FACTOR CORRECTION PANEL 1	RESERVE	RESERVE	RESERVE														
TYPE APPARATUS/TIP APARATURA		NG125 N	NG125 N	C60 L	C60 L	C60 L														
SWITCH/SWITCH	lcu [kA]	25	25	25	25	25														
N. POLI	In [A]	4P	3P	4P	4P	4P														
CURVE RELEASES/CURBA DE PRESA		C	D	C	C	C														
Ir [A]	tr [s]	50	80	10	10	10														
I _{sd} [A]	t _{sd} [s]	500	1120	100	100	100														
Ii [A]																				
Ig [A]	tg [s]																			
DIFFERENTIAL DIFFERENTIAL	TYPE/TIP																			
	CLASS/CLASA	Vigi		A si	A si	A si														
	tdn [ms]	0,03		Instant.	Instant.	Instant.														
CONTACTOR CONTACTOR	TYPE/TIP																			
	CLASS/CLASA																			
	tdn [ms]																			
CONTACTOR CONTACTOR	COIL [V]																			
	N. POLE																			
	In [A]																			
TERMIC	TYPE/TIP																			
	Irth [A]																			
FUSE	N. POLE																			
	In [A]																			
OTHER APP.	TYPE/TIP																			
	MODEL																			
PIPELINE/ PIPELINE/	TYPE/TIP																			
	MODEL																			
	POSE/INSTALAREA																			
	SECTION PHASE-N-PE/PEN [mmq]																			
	1x35	1x35	1x25	1x25	1x25	1x25														
	1x16	1x16	1x16	1x16	1x16	1x16														
	Iz [A]	42,3	15																	
	Uh [V]	400	400																	
	Pn [kW]																			
BOTTOM LINE/ FUND LINE	Icc min [kA]	6,4	5,6																	
	Icc max [kA]	9,1	8																	
	LENGHT/LUNGIME[m]	5	10																	
	dv TOTAL [%]	0,1	0,1																	

NOTE

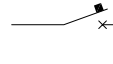
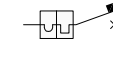
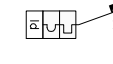
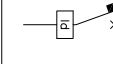
CONTINUITY "2" 400 Vac - 50 Hz

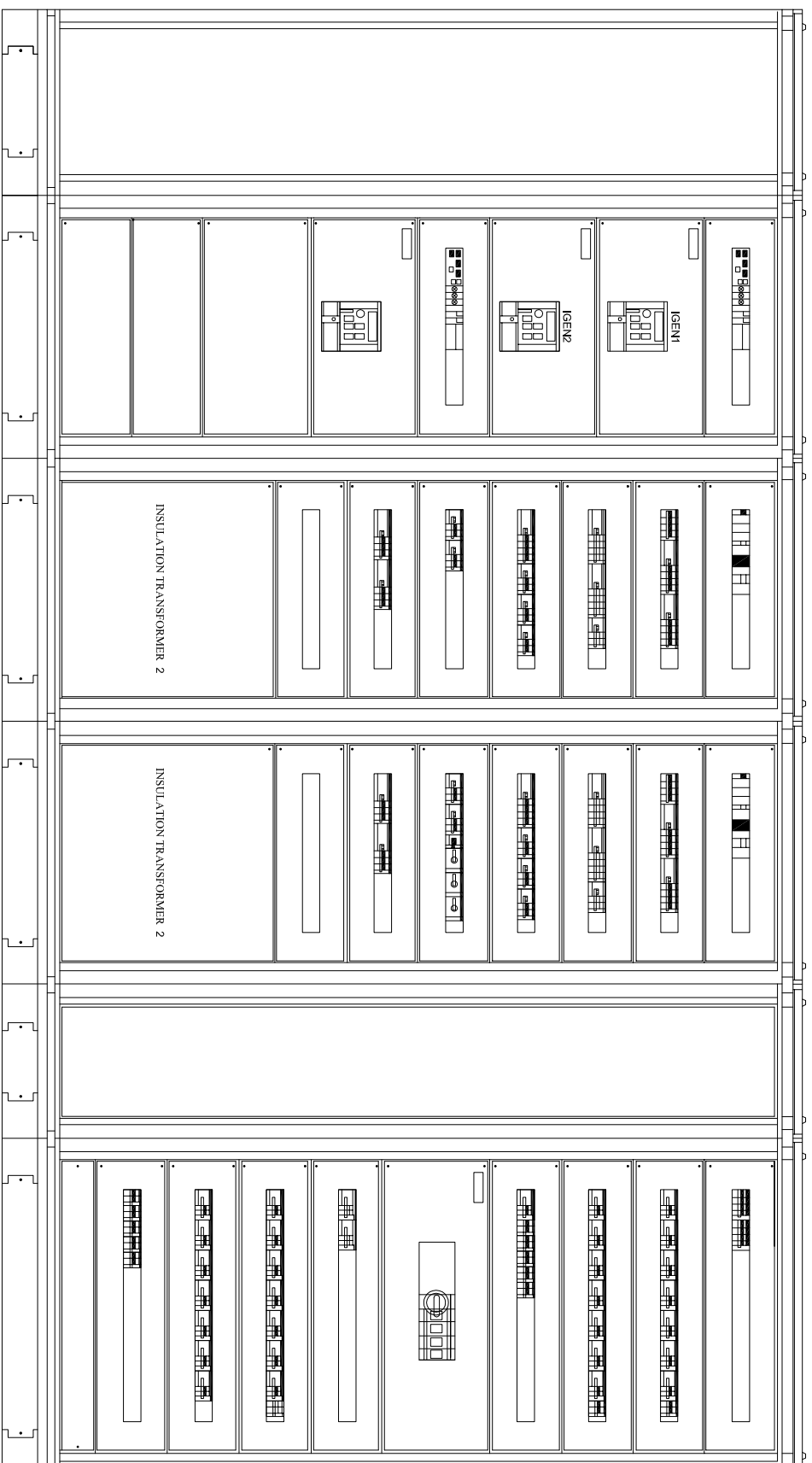


TERMINAL NUMBER/TERMINAL NUMARUL	NUMBER OF CIRCUIT NUMARUL DE CIRCUIT	DISTRIBUTION DISTRIBUȚIE	DESCRIPTION OF THE CIRCUIT DESCRIBEA A CIRCUITULUI	TYPE APPARATUS/TIP APARATURA	ICU [kA]	IN [A]	TR [s]	TS [s]	IG [A]	TDN [ms]	IRTH [A]	IN [A]	UN [V]	PH [kW]	ICC MIN [kA]	ICC MAX [kA]	LENGHT/LUNGIME[m]	TDV TOTAL [%]		
L1.1.8	9	ALC8	DEVICES GSM-R STSI 2	C60 L	40	40	40	400									15	0,5		
L1.1.9	10	ALC9	FIRE PROTECTION CENTRAL 2	C60 L	50	2P	10	100									15	0,1		
L1.1.10	11	ALC10	SUPERVISION MV 2	C60 L	50	2P	10	100									15	0,2		
L1.1.11	12	ALC11	RECTIFIER 2 230Voc/24Vcc	C60 L	50	2P	10	100									15	0,2		
L1.1.12	13	ALC12	AUX Q_SI	C60 L	50	2P	10	100									25	0,3		
L1.1.13	14	ALC13	AUX Q_AI	C60 L	50	2P	10	100									25	0,3		
	15	RESERVE	RESERVE	C60 L	25	4P	10	100												
	16	RESERVE	RESERVE	C60 L	25	4P	10	100												
SWITCH/SWITCH					ICU [kA]	IN [A]	TR [s]	TS [s]	IG [A]	TDN [ms]	IRTH [A]	IN [A]	UN [V]	PH [kW]	ICC MIN [kA]	ICC MAX [kA]	LENGHT/LUNGIME[m]	TDV TOTAL [%]		
PIPELINE/ PIPELINE					TYPE ISOLATION	POSE/INSTALAREA														
OTHER APP.					TYPE/TIP	MODEL														
FUSE					N. POLE	IN [A]														
CONTACTOR					COIL [V]	N. POLE	IN [A]													
DIFFERENTIAL DIFFERENTIAL					TYPE/TIP	CLASS/CLASA														
CONTACTOR					TYPE/TIP	CLASS/CLASA														
TERMIC					TYPE/TIP	IRTH [A]														
PIPELINE/ PIPELINE					TYPE ISOLATION	POSE/INSTALAREA														
BOTTOM LINE/ FUND LINE					LENGHT/LUNGIME[m]	TDV TOTAL [%]														

NOTE

	1	2	3	4	5	6	7	8
A								
	CLOSING CONTACT (OPEN TO REPOSE)/CONTACT DE INCHIDERE (DESCHIS LA REPAUS)				CLOSING CONTACT SENSITIVE TO TEMPERATURE/CONTACT DE INCHIDEREA SENSIBILE LA TEMPERATURA			
	OPENING CONTACT (OPEN TO REPOSE)/CONTACT DE DESCHIDERE (DESCHIS LA REPAUS)				CLOSING CONTACT TO THERMIC RELAY/CONTACT DE INCHIDERE DE RELEU TERMICE			
	CONTACT EXCHANGE WITH MOMENTARY INTERRUPTION/DATE DE SCHIMB CU INTERRUPERILOR MOMENTANE				THREE-WAY SWITCH/TREI-WAY SWITCH			
B								
	CONTACT A TWO-WAY THREE POSITIONS WITH CENTRAL POSITION OPENING/DATE DE A DOUA-WAY TREI POZITII, CU DESCHIDERE POZITIE CENTRALA				TWO-WAY SWITCH/DOUA-WAY SWITCH			
	CLOSING CONTACT WITH MANUAL DRIVE/CONTACT DE INCHIDERE CU COMANDA MANUAL				TWO-WAY SWITCH AT THREE POSITIONS WITH CENTRAL POSITION OPENING/DOUA-WAY SWITCH TREI POZITII CU DESCHIDERE POZITIE CENTRALA			
C								
	CLOSING CONTACT WITH CONTROL BUTTON/CONTACT DE INCHIDERE CU BUTONUL DE CONTROL				CONTACT N.A.-N.C. TIMED TO ACTION/CONTACT N.A.-N.C. CRONOMETRAT PENTRU A ACTIUNE			
	OPENING CONTACT WITH CONTROL BUTTON/CONTACT DE DESCHIDERE CU BUTONUL DE CONTROL				CONTACT N.A.-N.C. THE TIMED RELEASE/CONTACT N.A.-N.C.CRONOMETRAT PENTRU A ELIBERAREA			
D								
	CLOSING CONTACT WITH CONTROL ROD/CONTACT DE INCHIDERE CU COMANDA ROD							
	CLOSING CONTACT WITH ROTARY CONTROL/CONTACT DE INCHIDERE CU CONTROL ROTATIV							
E								
	CLOSING POSITION CONTACT/POZITIA DE CONTACT DE INCHIDERE							
	OPENING POSITION CONTACT/POZITIA DE CONTACT DE DESCHIDERE (LIMIT/LIMITA)							
F								
	EXCHANGE CONTACT WITHOUT INTERRUPTION/CONTACT DE SCHIMB FARA INTERRUPERE							

	1	2	3	4	5	6	7	8				
A		SWITCH (POWER)/SWITCH (PUTERE)			<input type="checkbox"/> X	RELAY OF MEASURING OR SIMILAR DEVICE WITH INDICATION OF SECURITY FEATURES ENABLED IN ANSI CODES/RELEU PENTRU DISPOZITIV DE MĂSURARE SAU SIMILARE CU INDICAȚIE DE CARACTERISTICI DE SECURITATE ESTE ACTIVAT ÎN CODURI ANSI						
		SWITCH WITH BUILT-IN FUSE/SWITCH CU BUILT-IN FUSE			<input type="checkbox"/>	THERMAL RELAY/RELEU TERMIC						
		POWER SWITCH FOR AUTOMATIC OPENING/BUTONUL DE PORNIRE DESCHIDEREA AUTOMATĂ			<input type="checkbox"/>	RELAY MAGNETIC/RELEU MAGNETIC						
B		POWER SWITCH OPENING AUTOMATIC, THERMIC/BUTONUL DE PORNIRE DESCHIDEREA AUTOMATĂ, TERMICE			<input type="checkbox"/> Id	CURRENT DIFFERENTIAL RELAY/RELEU CURENT DIFERENTIAL						
		POWER SWITCH OPENING AUTOMATIC, MAGNETOTHERMIC/BUTONUL DE PORNIRE DESCHIDEREA AUTOMATĂ, MAGNETOTHERMICE			<input type="checkbox"/> I >	OVERCURRENT RELAY (LONG DELAY)/RELEU SUPRACURENT (ÎNĂRZIERII PRELUNGITE)						
C		POWER SWITCH FOR AUTOMATIC OPENING, DIFFERENTIAL MAGNETOTHERMIC/COMUTATORUL DE ALIMENTARE TIMP DESCHIDEREA AUTOMATĂ, DIFERENȚIAL MAGNETO TERMICE			<input type="checkbox"/> I >>	OVERCURRENT RELAY (SHORT DELAY)/RELEU SUPRACURENT (SCURTĂ ÎNĂRZIERE)						
		POWER SWITCH FOR AUTOMATIC OPENING, WORKING FOR CURRENT DIFFERENTIAL/COMUTATORUL DE ALIMENTARE TIMP DESCHIDEREA AUTOMATĂ, LUCRU PENTRU DIFERENȚIAL CURENT			<input type="checkbox"/> I ±	EARTH FAULT RELAY/RELEU FAULT PĂMÂNTULUI						
D		POWER SWITCH AT AUTOMATIC OPENING WITH ADJUSTABLE THERMIC/COMUTATORUL DE ALIMENTARE TIMP DESCHIDEREA AUTOMATĂ CU CĂLDURĂ REGLABIL			<input type="checkbox"/> U = 0	RELAY GROUND FAULT RELAY A LACK OF POWER/RELEU ÎMPĂMÂNTARE RELEU LIPSA DE PUTERE						
		POWER SWITCH AT AUTOMATIC OPENING REMOVABLE/COMUTATORUL DE ALIMENTARE TIMP DESCHIDEREA AUTOMATĂ AMOVIBIL			<input type="checkbox"/> U <	RELAY UNDERVOLT/RELEU UNDERVOLT						
E					<table border="1" data-bbox="577 1543 661 1632"> <tr> <td>M</td> <td>D</td> </tr> <tr> <td>Ss</td> <td>EL</td> </tr> </table>	M	D	Ss	EL	PROTECTION TRIP UNITS ELECTRIC UNIT OF MEASURE (M) AND DIALOGUE (D)/ ÎMPEDICAT DE UNITATI ELECTRICE CU UNITATEA DE MASURA (M) ȘI DIALOG (D)		
M	D											
Ss	EL											
F												
	1	2	3	4	5	6	7	8				



2231
 6371
 3943