



Powering Business Worldwide

ELECTROTECHNICAL DATA ACCORDING TO IEC

System XIRIA E

The switchboard complies with the following standard requirements:

For altitude	Up to 1000m
For ambient	Standard 35C (max 40C)
For starpoint	Isolated
Colour of the switchboard	RAL 7035

General

Rated voltage	7.2 kV
Service voltage	6 kV
Impulse / Power Frequency Withstand Voltage	60kV/20kV-1min
Rated frequency	50 Hz
Loss of service continuity	LSC2B
Partition class	PM
Internal arc classification (IAC)	AFL
Internal arc resistance cable compartment	No
Degree of protection in service	IP31D
Degree of protection with doors/covers open	IP2X
Ambient air temperature range	-25 +40 C

Busbar system

Rated normal current	630 A
Rated short-time withstand current	20 kA
Rated duration of short-time withstand current	1 s
Rated peak withstand current	50 kA

The information on this document is created by Eaton Corporation. It is disclosed in confidence and it is only to be used for the purpose in which it is supplied.	PREPARED BY Andrey Kudrya	DATE 28/04/2015	Eaton		
	APPROVED BY	DATE	JOB NAME Georgian Manganese Xiria-E CCTTT 28-04-2015		
			DESIGNATION Xiria-E		
	VERSION 1.0.0.6		TYPE XIRIA E	DRAWING TYPE Final	
NEG-ALT Number EU2U0428X5K3-0000	REVISION 0	DWG SIZE A	G.O.	ITEM	SHEET 1 of 8

Vacuum load break 630A

Type of switch	general purpose
Rated normal current	630 A
Rated active load break current	630 A
Rated short-circuit making current	50 kA
Rated cable-charging breaking current	31.5 A
Mechanical endurance class	M2 5000X
Mechanical endurance class as earth switch	M0
Mechanical endurance class disconnecter	M0
Electrical endurance class	E3
Electrical endurance class as earth switch	E2

Vacuum circuit-breaker switch 200A

Rated normal current	200 A
Rated breaking current	20 kA
Rated short-circuit making current	50 kA
Rated capacitive switching current class	C2
Rated cable-charging breaking current	31.5 A
DC time constant	45 ms
DC component	<20%
Mechanical endurance class	M1
Mechanical endurance class as earth switch	M1
Mechanical endurance class disconnecter	M0
Electrical endurance class	E2
Minimum tripping time	80 ms
Mechanism type	O-3 min-CO-3 min-CO

Switchboard features

Installation venting	To Bottom Only
Extendable Busbars	Right side

The information on this document is created by Eaton Corporation. It is disclosed in confidence and it is only to be used for the purpose in which it is supplied.	PREPARED BY Andrey Kudrya	DATE 28/04/2015	Eaton		
	APPROVED BY	DATE	JOB NAME Georgian Manganese Xiria-E CCTTT 28-04-2015	DESIGNATION Xiria-E	
	VERSION 1.0.0.6		TYPE XIRIA E	DRAWING TYPE Final	
NEG-ALT Number EU2U0428X5K3-0000	REVISION 0	DWG SIZE A	G.O.	ITEM	SHEET 2 of 8

Panel specification

Transport Unit	Panel nr.	Description	Spec nr.
1	1	Load Break Switch 12-24kV	A
1	2	Load Break Switch 12-24kV	A
1	3	Circuit Breaker 12-24kV 200A	B
1	4	Circuit Breaker 12-24kV 200A	B
1	5	Circuit Breaker 12-24kV 200A	B

The information on this document is created by Eaton Corporation. It is disclosed in confidence and it is only to be used for the purpose in which it is supplied.	PREPARED BY Andrey Kudrya		DATE 28/04/2015	Eaton		
	APPROVED BY		DATE	JOB NAME Georgian Manganese Xiria-E CCTTT 28-04-2015		
				DESIGNATION Xiria-E		
	VERSION 1.0.0.6		TYPE XIRIA E			DRAWING TYPE Final
NEG-ALT Number EU2U0428X5K3-0000	REVISION 0	DWG SIZE A	G.O.		ITEM	SHEET 3 of 8

A: Load Break Switch, 630A, consisting of:

Busbar system

1 hand-operated changeover switch for the operating and earthing position and provided with:

1 mechanical position indicator

1 Vacuum Load Break Switch, 630A

1 manually spring operated mechanism provided with:

1 mechanical position indicator

1 mechanical closing facility

1 mechanical tripping push-button

1 voltage detecting system type WEGA 1.2

Cable compartment with:

Cable door lock: Interlock-based

Cable earthing bar

3 cable cones type C-cone

1 extended compartment door: 20mm

3 cable clamps for fixing the cables, size 36-52 mm

B: Circuit Breaker, 200A, consisting of:

Busbar system, extendable on the right side

1 hand-operated changeover switch for the operating and earthing position and provided with:

1 mechanical position indicator

1 Vacuum Circuit Breaker, 200A

1 auxiliary switch activated by the circuit-breaker switch
with: 1NO/1NC contacts

1 manually spring operated mechanism provided with:

1 mechanical position indicator

1 mechanical closing facility

1 mechanical tripping push-button

1 protection relay, type WIC1-2PE with DIP settings

1 voltage detecting system type WEGA 1.2

Cable compartment with:

Cable door lock: Interlock-based

Cable earthing bar

3 cable cones type C-cone

1 extended compartment door: 20mm

1 cable clamp for fixing the cable, size 50-75 mm

3 current transformers, 64-224A 0.1VA 5P80 for Protection (WIC)

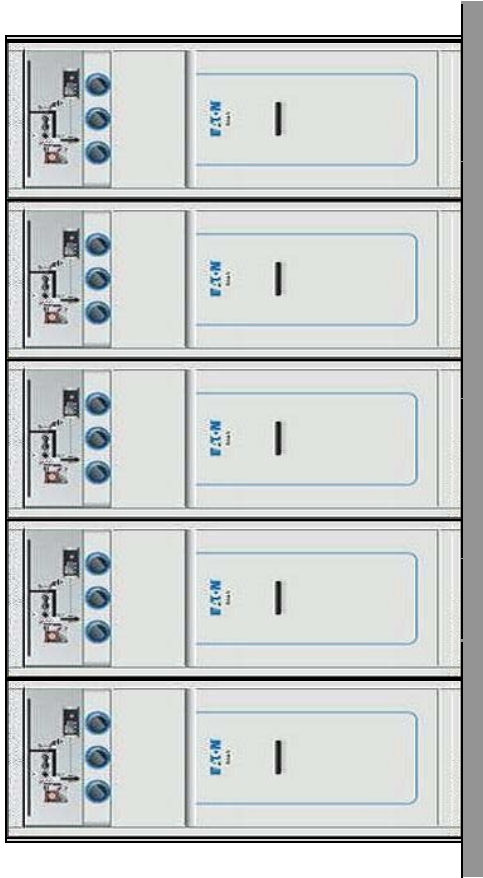
The information on this document is created by Eaton Corporation. It is disclosed in confidence and it is only to be used for the purpose in which it is supplied.	PREPARED BY Andrey Kudrya		DATE 28/04/2015	Eaton		
	APPROVED BY		DATE	JOB NAME Georgian Manganese Xiria-E CCTTT 28-04-2015		
				DESIGNATION Xiria-E		
	VERSION 1.0.0.6		TYPE XIRIA E		DRAWING TYPE Final	
NEG-ALT Number EU2U0428X5K3-0000	REVISION 0	DWG SIZE A	G.O.	ITEM	SHEET 4 of 8	

Switchboard Accessories

Transport Unit	Panel nr.	Qty	Description
		2	Operating handle short
		1	English manual

The information on this document is created by Eaton Corporation. It is disclosed in confidence and it is only to be used for the purpose in which it is supplied.	PREPARED BY		DATE	Eaton		
	Andrey Kudrya		28/04/2015			
	APPROVED BY		DATE	JOB NAME	Georgian Manganese Xiria-E CCTTT 28-04-2015	
				DESIGNATION	Xiria-E	
	VERSION		TYPE		DRAWING TYPE	
	1.0.0.6		XIRIA E		Final	
NEG-ALT Number	REVISION	DWG SIZE		G.O.		SHEET
EU2U0428X5K3-0000	0	A				5 of 8

Switchboard dimensions

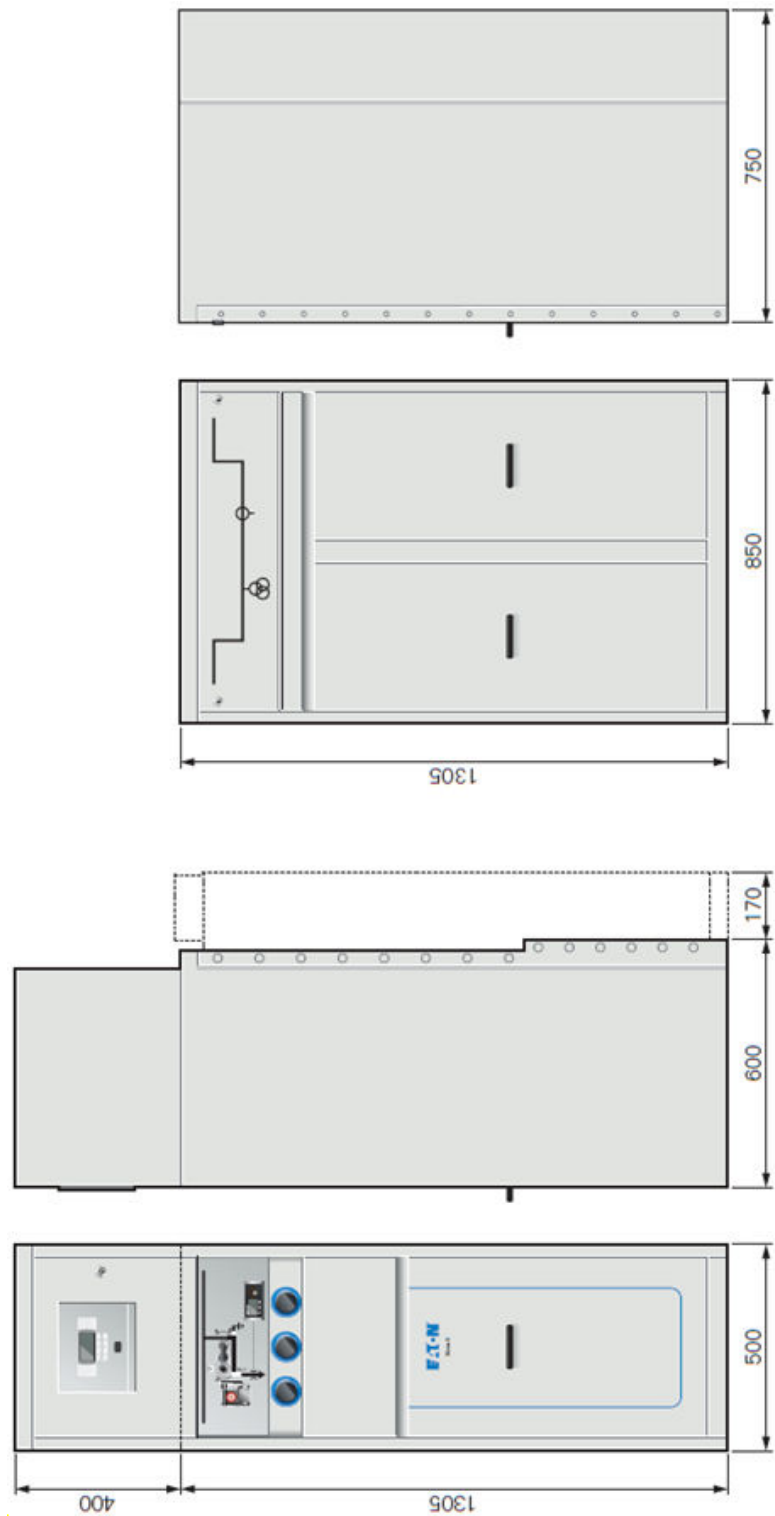


* APPEARANCE MAY DIFFER FROM CONFIGURATION

TOTAL WEIGHT : 950.00 kg TOTAL WIDTH : 2520 mm TOTAL HEIGHT : 1325 mm TOTAL DEPTH : 600 mm
* MINIMUM REQUIRED SPACE AT EXTENSION AND/OR COUPLING ON THE RIGHT OR LEFT SIDE: 1000 mm

The information on this document is created by Eaton Corporation. It is disclosed in confidence and it is only to be used for the purpose in which it is supplied.	PREPARED BY Andrey Kudrya	DATE 28/04/2015	Eaton	
	APPROVED BY		JOB NAME Georgian Manganese Xiria-E	Xiria-E
		VERSION 1.0.0.6	DESIGNATION TYPE XIRIA E	DRAWING TYPE Final
	REVISION 0	DWG SIZE A	G.O.	ITEM SHEET 7 of 8
NEG-ALT Number EU2U0428X5K3-0000				

General dimensions



The information on this document is created by Eaton Corporation. It is disclosed in confidence and it is only to be used for the purpose in which it is supplied.		PREPARED BY Andrey Kudrya	DATE 28/04/2015	Eaton	
		APPROVED BY	DATE	JOB NAME Georgian Manganese Xiria-E CCTTT 28-04-2015	
				DESIGNATION Xiria-E	
NEG-ALT Number EU2U0428XK3-0000		REVISION 0	VERSION 1.0.0.6	TYPE XIRIA E	DRAWING TYPE Final
			DWG SIZE A	G.O.	ITEM SHEET 8 of 8