



Product overview

Reliable innovation. Personal solutions.

Substation solutions

Primary distribution			
MV Gas Insulated Switchgear		Protection & Automation	
» cpg.1			
Standards	IEC		
Busbar	Double		
U _r (max)	24 kV	36 kV	
I _r max (Busbar)	2500 A		
I _r max (outgoing)	2000 A		
I _k	25-31.5 kA (1 - 3 s)		
			
» ekor.rpa / ekor.rps		» ekor.rpa / ekor.rps	
Protection	Multifunction: 50-51, 50N-51N, 50NS-51NS, 67, 46, 49, 81, 27, 59N...		
Automation and control	Communication, metering and control		
» cpg.0			
Standards	IEC IEEE-ANSI		
Busbar	Single		
U _r (max)	24 kV 27 kV	36 kV 38 kV	40.5 kV
I _r max (Busbar)	2500 A 2250 A	1600 A	
I _r max (outgoing)	2500 A 2250 A	1250 A	
I _k	25-31.5 kA (1 - 3 s)		
			
» transforma.power			
Standards	IEC		
U _r max	52 kV		
Power max	10 MVA		
			
» transforma.earth			
Type	Earthing reactances		
Standards	IEC		
U _r max	36 kV		
I _o (max)	1000 A		
			
» gae1250kmax			
Standards	IEC		
Busbar	Single		
U _r (max)	24 kV		
I _r (max)	1250 A		
I _k	25 kA (1 - 3 s)		
			
» cgm.800			
Standards	IEC IEEE-ANSI		
Busbar	Single		
U _r (max)	24 kV 27 kV	36 kV 38 kV	
I _r (max)	800 A		
I _k	25 kA (1 - 3 s)		
			
» ormacontainer			
Type	Metal		
Standards	IEC		
U _r /Power (max. per unit)	40.5 kV / acc. project		
Max. No. transf.	+1		
			
» pfu			
Type	Concrete		
Standards	IEC		
U _r /Power (max. per unit)	40.5 kV / 1000 kVA		
Max. No. transf.	+1		
			



RES
Wind
Solar
Storage
Dispatchable RES



PUBLIC DISTRIBUTION



END USERS
Infrastructures
Industrial
Tertiary
Electric vehicle



Distribution network solutions

Secondary distribution										Prefabricated transformer substations: IEC 62271-202											
MV Gas Insulated Switchgear										neuron Concrete Prefabricated TS*											
Switchgear systems										Concrete Prefabricated TS*					Metallic Prefabricated TS			CEADS			
Type	Modular & Compact (RMU)			Compact (RMU)	Modular	Modular & Compact (RMU)			Modular		Type	Underground	Walk-in	Kiosk	Compact Kiosk	Rural Kiosk		Kiosk	Outdoor	Grouped	
Standards	IEC	IEEE-ANSI	HN	IEC	IEC	IEC	IEEE-ANSI	IEC	IEC	IEEE-ANSI	Standards	IEC	HN (PAMI/PUIE)	IEC	IEC	IEC	HN (PRCS / PSS)	IEC / HN	IEC	IEC	
U _i (max)	24 kV	27 kV	24 kV	24 kV	24 kV	36 kV	38 kV	40.5 kV	24 kV	27 kV	U _i / Power (max.)	24 kV / 630 kVA	24 kV / 630 kVA	40,5 kV / 1000 kVA	24 kV / 630 kVA	24 kV / 250 kVA	20 kV / 100-250 kVA	40.5 kV / 1000 kVA	40.5 kV / 5000 kVA	24 kV / 630 kVA	
I _r / I _k (max.)	630 A / 25 kA (1 s)			630 A / 20 kA (1 s)	630-1250 A / 20 kA (1 s)			630 A / 25 kA (1 - 3 s)		800 A / 25 kA (1 - 3 s)	Max. No. of transformers	1	1	1	1	1	1	1	1	1	
Name	» cgmcosmos			» ga	» gae			» cgm.3		» cgm.800	Name	» minisub	» cto	» ormaset » ormaset.p	» miniblok	» ctc » ctr	» ctc.r » ctc.ra & rb	» ormaset.m	» mb.m	» mb	
																					
SmartGrids solutions: Switchgear + ekorsys family units										Enclosures for Transformer Substations											
Protection										neuron Concrete enclosures					Metallic enclosures						
1	ekor.rpa ekor.rps	Multifunction										Type	Underground	Walk-in		Walk-in		Walk-in			
2	ekor.rpg ekor.rpt	Multifunction for wind turbine generators					MV PLC Communications - BPL architecture based solutions - Sensing and coupling			Dispatching center - scada software		Standards	IEC	IEC	HN (PAC)	GB		IEC			
3	ekor.upg	Generator					Metering Telemanagement - ekor.gid: Smart distribution management unit - Data concentrators			Monitoring and sensing - ekor.rtk: voltage detection - Current transformers and voltage sensors (ekor.evt)		U _i / Power (max.)	40.5 kV / 1000 kVA	40.5 kV / 1000 kVA	24 kV / 1000 kVA	12 kV / 1000 kVA		40.5 kV / acc. project			
Automation and control																					
Advanced solutions in control box																					
Energy management Intelligent Node																					
Other functions																					
transforma Distribution Transformers										Low Voltage Boards					Other Substations						
Type	Conventional		Non-conventional				LVB					neuron Switching nodes									
	Indoor installation / pole mounted	Pole Mounted - Ground mounted (cable connected / unit substation)	transforma.smart	transforma.tpc	transforma.pad	Extended range				Type					Type						
Standards	IEC-ST	EN A Tech Spec - 35-1	Automatic on-load tap changer (OLTC) associated to ekor.tsm monitoring unit	Self-protected	Pad-mounted applications	- Other technical values (>36 kV, >5000 kVA...) - Renewable energy applications - Auxiliary services in nuclear power plants				Low Voltage Board					Kiosk (Concrete)						
U _i (max.)	24 kV / 36 kV	36 kV	20 kV / 36 kV	20 kV / 36 kV	38 kV					IEC					IEC						
Power (max.)	25 - 5000 kVA	5000 kVA	50 - 160 kVA	50 - 160 kVA	3000 kVA					440 V					IEC						
Dielectric liquid	Oil / organic (natural biodegradable ester) Hermetically sealed & completely filled						1000 / 1600 A					HN					HN				
										» cbt					» cbs.p						
							» cbto					» ormapack					» cms.m				
												» cms					» fbox » ge1k » kvs				

(*) Consult other prefabricated solutions acc. IEC 62271-202



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