



24KV GIS

ECOSMART GIS COMPONENTS

Compact Series, Configuration 2SCBS

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|-------------------------------|----------------------------|
| 1 Lifting Eyebolts | 8 Cables Compartment |
| 2 Stainless Steel Tank | 9 Cables Compartment Panel |
| 3 Operating Mechanisms | 10 Low Voltage Cabinet |
| 4 Vacuum Circuit Breaker | 11 Fuse Holders |
| 5 Voltage Presence Indicators | 12 Optional Key Locks |
| 6 Pressure Gauge | 13 Cable Bushings |
| 7 Support Frame | |





Technical Characteristics

ECOSMART GIS			
Rated voltage	Ur (kV)	12	24
Power Frequency Withstands Voltage -Towards ground-between phases -Across insulating distance	Ud (kV)	28	50
		32	60
Rated Lightning Impulse Withstand Voltage -Towards ground-between phases -Across insulating distance	Up (kV)	75	125
		85	145
Rated Frequency	fr (Hz)	50	50
Rated Current	Ir (A)	630	630
Rated Short Time Withstand Current	Ik (kA)	16 (tk=1s)	16 (tk=1s)
		20 (tk=1s)	20 (tk=1s)
		20 (tk=3s)	20 (tk=3s)
		25 (tk=1s) ⁽¹⁾	
Internal Arc Withstand Current (IAC AFLR)	(kA)	20 x 1s	20 x 1s
Internal Arc Withstand Current (inside the fuse holder)	(kA)	16	16
Service Continuity	LSC2A as per IEC 62271-200		
SWITCH DISCONNECTOR			
Mainly Active Load Current	TDloa2 (A)	630	630
	TDloa1 (A)	31.5	31.5
Closed-Loop Distribution Circuit Current	TDloop (A)	630	630
Cable-Charging Current	TDcc2 (A)	16	16
	TDcc1 (A)	4	4
Line-Charging Current	TDlc (A)	1.5	1.5
Earth Fault Current	TDef1	48	48
Cable And Line Charging Current Under Earth Faults	TDef2	28	28
		40	40
Short-Circuit Making Current	TDma (kA)	50	50
		62.5 ⁽²⁾	
Number Of Making Operations	n.		5 ⁽²⁾
Electrical Endurance Class		E3 ⁽²⁾	
Mechanical Endurance Class		M1 (1000)	
FUSE SWITCH-DISCONNECTOR			
Rated Current	Ir (A)	250	250
Short-Circuit Making Current	TDma (kA)	40	40
		50	50
Number Of Making Operations	n.	5	5
		5	5
EARTHING SWITCH			
Short-Circuit Making Current	TDma (kA)	40	40
		50	
Number Of Making Operations	n.	5	5
		5	5
EARTHING SWITCH DOWNSTREAM THE FUSES			
Rated Short Time Withstand Current For Tk=1s	Ik (kA)	2.1	2.1
Short-Circuit Making Current	TDma (kA)	5.4	5.4
Number Of Making Operations	n.	5	5
VACUUM CIRCUIT BREAKER			
Power Frequency Withstands Voltage 50 Hz 1 Min.	Ud (kV)	28	28
Rated Lighting Impulse Withstand Voltage	Up (kV)	75	125
Rated Current	Ir (A)	630	630
Rated Short-Circuit Breaking Current	Isc (kA)	16-20	16-20
Rated Short Time Withstand Current (Tk=1s)		16-20	16-20
Operation Sequence		O - 0,3sec - CO -3min -CO	
Single Phase and Double-Earth Fault Tests	-	20 kA at 13,8 kV	20 kA at 13,8 kV
		17,3 kA at 24 kV	17,3 kA at 24 kV
Mechanical Endurance Class		M1 (1000) ⁽³⁾	

NOTE: (1) 25kA rating available with switch-disconnector only (2) For 12kV, 62.5kA Short-Circuit Making Current operations only, performed 2 times and with Electrical Endurance Class E1 (3) M2 (10000) available upon request