

T155 H-GIS

Hybrid Gas-insulated Substations 420 kV, 63 kA, 5 000 A, 2 cycles

GE makes the most of 50 years of experience in design, material selection, development, engineering, manufacturing and servicing of gas-insulated substations.

GE's T155 H-GIS meet the challenges of networks up to 420 kV for all applications: power generation, transmission and heavy industry.

Environment Friendliness

- Lowest gas weight on the market
- First-in-class SF₆ sealing system

Highest Availability

- Best experience and reliability data
- Current transformers outside SF₆
- Pure-spring circuit-breaker drives
- Outstanding accessibility: drives and accessories at easy reach

Shortest Site Works

- Complete bays assembled, wired, tested and shipped

Smart Grid Features

- Full-digital monitoring, control and protection



Key Benefits

- Maximum safety
- Compact and accessible
- Field-proven reliability
- First-class availability
- Low total cost of ownership
- Smart Grid ready
- Low environmental impact





General Ratings

Reference electrotechnical standards		IEEE / IEC
Voltage	kV	362 / 420
Withstand voltages		
Short-duration power-frequency, phase-to-earth / across open switching device	kV	650 / 815
Switching impulse, phase-to-earth / across isolating distance	kVp	1 050 / 900 (+345)
Lightning impulse, phase-to-earth / across open switching device	kVp	1 425 / 1 425 (+240)
Frequency	Hz	50 / 60
Continuous current	A	up to 5 000
Short-time withstand current / Duration of short-circuit	kA / s	63 / 3
Ambient temperature range	°C	down to -30 / up to +55

Circuit-Breaker Ratings

First-pole-to-clear factor		1.3 - 1.5
Short-circuit breaking current	kA	63
Short-circuit making current	kAp	170
Operating sequence		O - 0.3 s - CO - 3 min - CO / CO - 15 s - CO
Drive type		pure-spring
Breaking time	cycles	2
Mechanical endurance	class	M2
Capacitive switching	class	C2

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