

innoquadri duestelle spa
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INTERRUTTORE
CIRCUIT BREAKER



CARICA
MOLLE
SPRING
CHARGE



SinterAir



SEQU
OPERAT
ACCESSO ALLO BOOM
ACCESS TO COMPARTMENT

- APRIRE L'INTERRUTTORE
- OPEN THE CIRCUIT BREAKER
- APRIRE IL SEZIONATORE DI LINEA
- OPEN THE SWITCH DISCONNECTOR
- CHIUDERE IL SEZIONATORE DI TERRA
- CLOSE THE EARTHING SWITCH
- APRIRE LA PORTA
- OPEN THE DOOR

PRESENZA TENSIONE
VOLTAGE PRESENCE

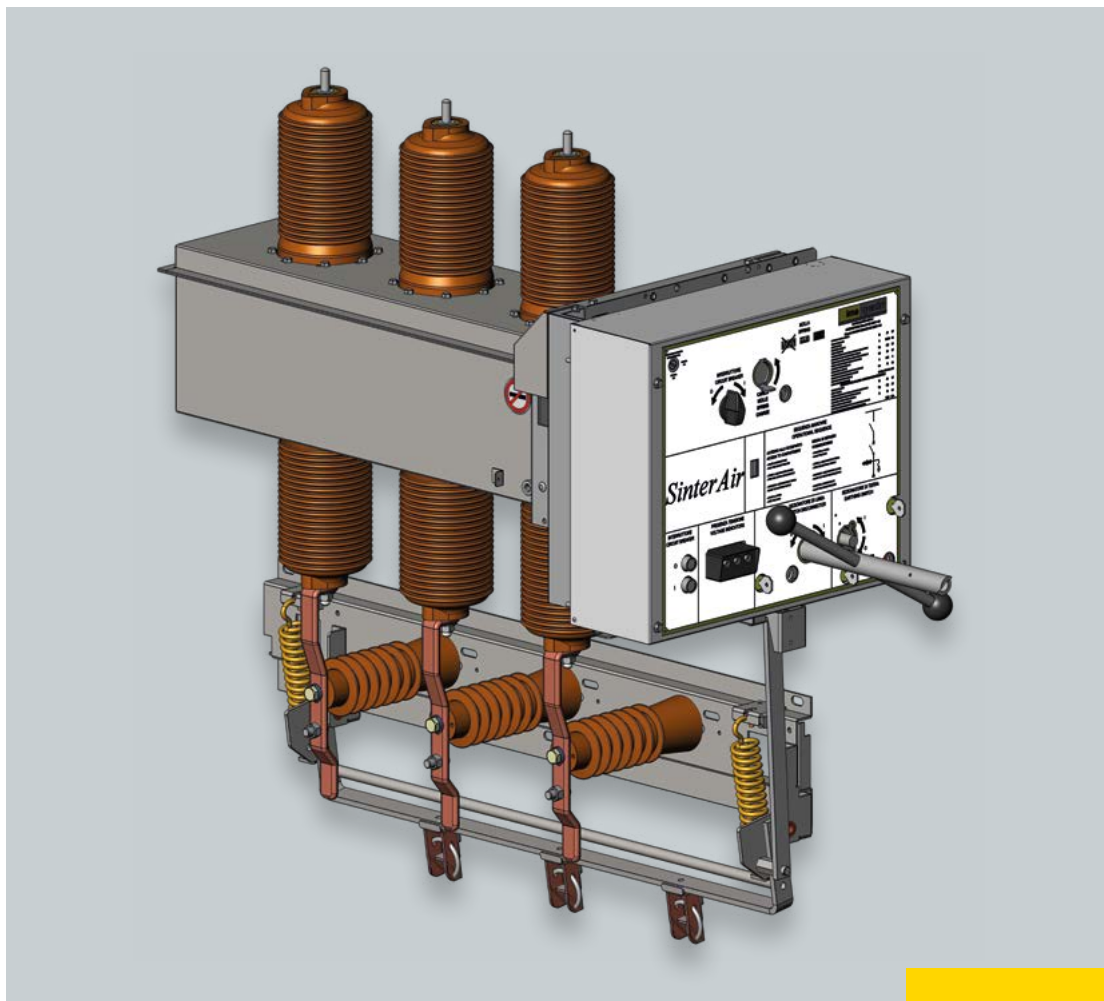


SEZIONATORE
SWITCH DISCONNECTOR



SINTER AIR

Minibloc Air can be equipped with the SINTER AIR multifunctional device, combining switching and isolating functions in a single SF₆-free gas mixture insulated unit. This solution allows the switchgear to be approximately one-third more compact than traditional designs with separate circuit breaker and disconnector, while maintaining full functional equivalence.



The reduced travel of moving contacts and lower moving mass result in very low operating energy requirements, limited wear and a high number of maintenance-free mechanical operations. SINTER AIR devices feature a stored-energy operating mechanism ensuring fast and operator-independent operation and are supplied with a wide range of easily installable accessories.

All active components (circuit breaker and line disconnector) are enclosed in a robust stainless-steel structure containing the SF₆-free gas mixture, resin-coated and sealed for life.

The compact design ensures long-term robustness and reliability.

TECHNICAL CHARACTERISTICS

Insulation voltage	(kV)	24
Insulation level and withstand voltage to earth and between phases:		
- impulse	(kV)	125
- industrial frequency	(kV)	50
Insulation level and withstand voltage between open contacts:		
- impulse	(kV)	145
- industrial frequency	(kV)	60
Rated frequency	(Hz)	50
Rated current	(A)	630
Short-time current *	(kA)	12,5 – 16
corresponding peak current	(kA)	31,5 – 40
Short circuit rated duration		1 sec
Electric duration class IEC 62271-100		E2
Rated short circuit breaking power *	(kA)	12,5 – 16
perating sequence		O - $\hat{\sim}$ sec - $\sim\hat{\sim}$ sec -
Mechanical class IEC 62271-100		M2

* please contact Imequadri Duestelle S.p.A. for highet current values

REFERENCE STANDARDS

CEI EN IEC 62271-1, 62271-100, 62271-102

CEI EN IEC 60529

CEI EN 60447

COMPONENTS

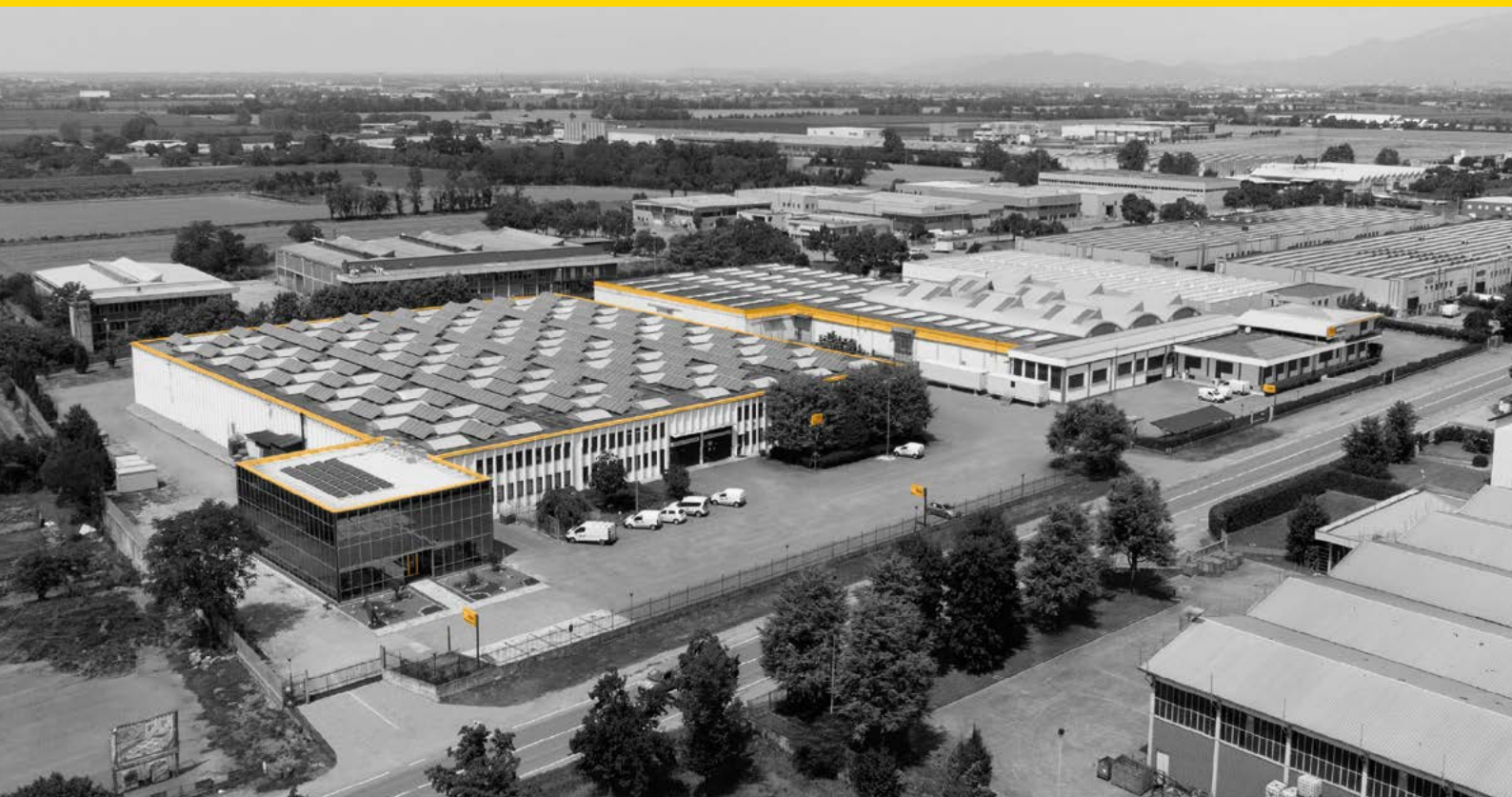


VACUUM BOTTLE

1. Mobile contact terminal
2. Ceramic insulator
3. Fixed contact terminal

BENEFITS

- Vacuum breaking technology
- Vacuum contacts protected against oxidation and contamination
- Vacuum bottles held inside resin insulators
- Bottles protected against crashes, dust and humidity
- Working in several environmental conditions
- Scarce working energy
- Stored energy operating mechanism with standard anti-pumping device
- Easily customisable through a complete range of accessories
- Lifetime sealed structure
- Reduced dimensions
- Stoutness and reliability
- Limited maintenance
- Long and dangerous operations prevented by proper blocks
- High environmental sustainability



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