ABB SafeRing / SafePlus 36

Gas-Insulated Medium-Voltage Switchgear



APPLICATIONS & SYSTEM BENEFITS

For utility-connected solar PV and BESS substations, industrial distribution, data centre power infrastructure and compact secondary substations. SafeRing provides standard ring-main configurations; SafePlus offers flexible, extensible modules for more customized distribution needs.

PRODUCT HIGHLIGHTS

COMPACT & SEALED: Stainless-steel SF6 gas tank, sealed for life.

PERSONNEL SAFETY: Enclosed live parts, earthing and interlocking features.

MODULARITY: Cable switch, fuse protection, vacuum breaker and metering options.

GRID AUTOMATION: Optional remote control, monitoring and protection relays.

Manufacturer: ABB | Product family: SafeRing / SafePlus 36

Ratings vary by module and configuration; engineering review required.

Contact Us

scarlett.ge@tyrauroraenergy.com

Tel / WhatsApp: +1 236-965-5051

TYR Aurora Energy Solution LTD

3602-6333 Silver Avenue

Burnaby, BC V5H 0C3

Technical Specifications

ABB SafeRing / SafePlus 36 | Medium-Voltage Switchgear

ABB SafeRing / SafePlus 36 | Selected catalogue ratings

ELECTRICAL RATINGS

Rated voltage	36 kV
Rated frequency	50 / 60 Hz (36 kV)
Busbar rated current	630 A
Short-time withstand current	20 kA / 3 s or 25 kA / 1 s
Lightning impulse withstand	170 kV
Power-frequency withstand	70 kV
Internal arc classification	IAC AFL / AFLR: 20 or 25 kA, 1 s

DESIGN & OPERATING CONDITIONS

Insulating medium	SF6 gas
Sealed tank / enclosure	Welded stainless steel
Gas tank protection	IP67
Expected operating lifetime	30 years
Normal indoor ambient	-25 C to +40 C
Normal installation altitude	Up to 1,500 m
Vacuum circuit-breaker module	630 A; 20 or 25 kA variants

STANDARDS & PROJECT VERIFICATION

ABB lists IEC 62271-1, -100, -102, -103, -105 and -200, plus IEC 60529. The attached catalogue does not establish CSA/cUL certification or Canadian utility acceptance. Confirm applicable approvals, 60 Hz configuration, arc classification, SF6 requirements and project-specific single-line design.

Source: ABB SafeRing / SafePlus 36 catalogue, Rev. B (Dec 2024), pp. 6, 13-16.

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