

HV RINGMASTER CE2/SE6

11 kV Extensible Ring Main Unit Modules



Typical RMU Configuration

The CE2 unit is typically rated 200 A and is used in RMU configurations where two 600 A SE6 ring switches feed one protected transformer feeder.

2 x 630A RING SWITCH UNITS (SE6)

1 x 200A CIRCUIT BREAKER FEEDER (CE2)

CE2 summary

This configuration is common in 11 kV compact substations supplying transformers between 500 kVA and 11 MVA. Our modular Ringmaster units can be configured to provide a bespoke HV Switchboard. The CE2 unit is a circuit breaker feeder module used within the Ringmaster RMU system to provide protection and switching for distribution transformers. The CE2 unit includes an integrated earthing switch allowing cables to be safely grounded during maintenance or testing.

This module contains a vacuum or SF₆ circuit breaker together with protection relays and current transformers. Its primary function is to detect faults (*overcurrent or earth fault*) and automatically trip, thereby protecting downstream equipment such as distribution transformers. The unit is also fitted with a VIP300 protection relay device.

CE2 Technical Data Table

PARAMETER	SPECIFICATION	PARAMETER	SPECIFICATION
UNIT TYPE	CIRCUIT BREAKER FEEDER	PROTECTION FUNCTIONS	OVERCURRENT EARTH FAULT
SERVICE VOLTAGE	13.8 kV	PROTECTION RELAY	SELF POWERED RELAY
HIGHEST VOLTAGE	15 kV	OPERATING MECHANISM	MANUAL SPRING / OPTIONAL MOTOR
RATED CURRENT	200 A	BUSBAR RATING	630 A
CIRCUIT BREAKER	VACUUM OR SF ₆	INSULATION MEDIUM	SF ₆ GAS
SHORT CIRCUIT CURRENT	UP TO 16-21 kA	INSTALLATION	INDOOR / OUTDOOR RMU
PEAK WITHSTAND CURRENT	UP TO 50 kA	APPLICATION	TRANSFORMER FEEDER PROTECTION

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SE6 summary

The SE6 unit is a 630 A load break switch module used in Ringmaster RMUs for ring feeder switching and network sectionalising. Its primary function is to connect or disconnect sections of a medium-voltage distribution ring under load conditions. Unlike the CE2 module, it does not provide automatic fault protection but instead provides manual switching and isolation of feeders.

The SE6 unit also includes an integrated earthing switch, allowing cables to be safely grounded during maintenance or testing. SE6 modules are commonly installed as incoming and outgoing feeders in ring distribution networks.

SE6 Technical Data Table

PARAMETER	SPECIFICATION	PARAMETER	SPECIFICATION
UNIT TYPE	LOAD BREAK SWITCH MODULE	OPERATING POSITIONS	ON / OFF / EARTH
SERVICE VOLTAGE	11 kV	EARTH SWITCH	INTEGRATED
HIGHEST VOLTAGE	13.8 kV	BUSBAR RATING	630 A
RATED CURRENT	630 A	INSULATION MEDIUM	SF ₆ GAS
SWITCHING DEVICE	LOAD BREAK SWITCH	OPERATION	MANUAL SPRING MECHANISM
SHORT CIRCUIT WITHSTAND CURRENT	16-21 kA (3s)	OPTIONAL OPERATION	MOTORISED
PEAK WITHSTAND CURRENT	UP TO 50 kA	APPLICATION	RINGER FEEDER SWITCH / ISOLATION

CE2 and SE6 Units

The CE2 and SE6 units serve complementary but distinct roles within a medium-voltage Ring Main Unit (RMU) system. The CE2 unit is designed specifically for transformer feeder protection, incorporating a circuit breaker and protection relay to automatically detect and isolate faults such as overcurrent or earth faults. In contrast, the SE6 unit functions as a load break switch for ring feeder switching and network sectionalising, allowing operators to safely connect, disconnect, and earth sections of the network under load conditions. Both units have remote opening / closing mechanisms fitted as standard.

While the SE6 provides essential switching and isolation capability, it does not offer fault protection, making the CE2 critical where automatic fault clearing and downstream equipment protection are required. Together, these units form a typical RMU configuration, combining controlled switching with integrated protection to ensure both operational flexibility and system safety.

FEATURE	CE2 CIRCUIT BREAKER	SE6 UNIT SWITCH
UNIT TYPE	CIRCUIT BREAKER FEEDER	LOAD BREAK SWITCH
RATED CURRENT	200 AMP	630 AMP
PRIMARY FUNCTION	TRANSFORMER PROTECTION	RING FEEDER SWITCHING
PROTECTION	YES - VIP300 RELAY DEVICE	NO
AUTOMATIC FAULT CLEARING	YES	NO
EARTH SWITCHING	YES	YES
TYPICAL POSITION IN RMU	TRANSFORMER FEEDER	INCOMING/OUTGOING FEEDERS
WEIGHT	280 kg	280 kg