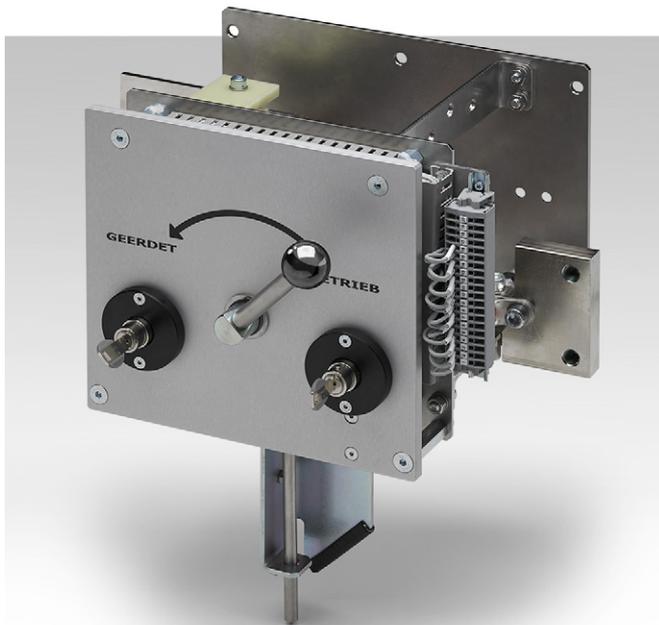## PRODUCT INFORMATION

SE Series

**Earthing switch
for railway vehicles**

Modular earthing switch for mounting in switchgear cabinets. The device is designed in accordance to the UIC safety regulations for EMUs. It can only be operated by authorized personnel with a special key. Variants for all UIC voltages (1kV 16 2/3 Hz, 1.5kV 50 Hz, 1.5kV DC, 3kV DC) can be supplied.

Manually operated disconnector providing potential isolation and earthing of a circuit when locked in the open position. Suitable for use with train lines and intermediate as well as input and output circuits of traction inverters of locos, EMUs, rail cars, railway carriages, etc.
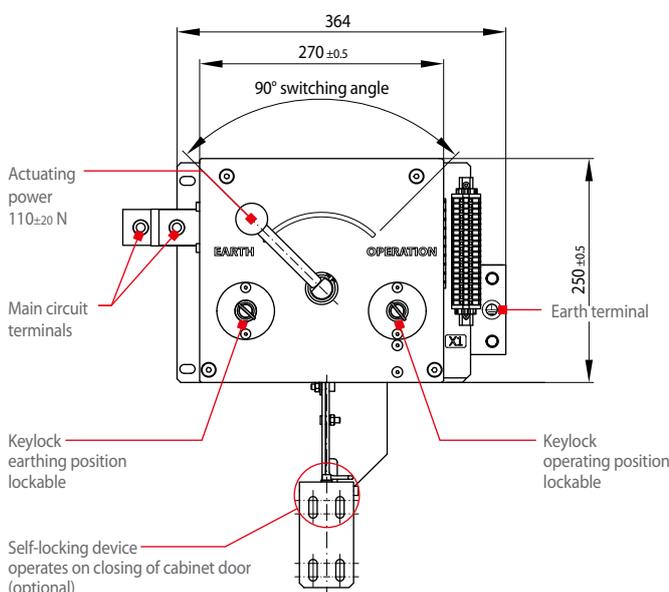
Features:

● Manually operated two-position switch for disconnecting and earthing of one or more circuits
● High surge current strength
● Mechanical locking of operating and earthing position resp., safeguarded with a locking system to customer requirements
● Mirror contacts with positive opening operation (mechanical indication of operating and earthing position)
● Additional voltage tester on front plate (optional)
● Self-locking device: operates on closing of cabinet door (optional)

Standards:

IEC 60077-1, IEC 60077-2, EN 50124

Dimension diagram

Actuating power 110 ±20 N

Main circuit terminals

Earth terminal

Keylock earthing position lockable

Keylock operating position lockable

Self-locking device operates on closing of cabinet door (optional)

270 ±0.5

364

90° switching angle

250 ±0.5

EARTH   OPERATION

X1

Dimensions in mm   * Form Z SPDT-DB with positive opening operation and wiping contacts , see ➔ catalogue D26

Specifications

Series	I	SE
Nominal voltage		1kV 16 ²/₃ Hz: SE1.0 M2.4 K2 1.5 kV 50 Hz: SE1.5 M2.4 K2 1.5 kV DC: SE1.5 M2.4 K2 3kV DC: SE3.0 M2.4 K2
Short circuit current		Sinus half wave: 16 ²/₃ Hz: 30 kA 1 s sinus: 15 kA
Earthing contacts		2x

Aux. contacts
  Operating position
  Earthing position
		2x snap-action switch S826*
		2x snap-action switch S826*

Mechanical locking		1x locking system operating position 1x locking system earthing position Cabinet door, optional
Pollution degree Overvoltage category		PD3 OV3
Mechanical endurance		30,000 operating cycles
IP rating (IEC 60529, IP code)		IP20
Temperature range		-25 ℃ … +70 ℃
Weight		approx. 16.5 kg