



## PRODUCT INFORMATION

# CVB15, CVB25

### Switchgear for Traction AC Vacuum Circuit Breaker



The CVB Series vacuum circuit breaker is the main electrical switch and protection device of AC locomotives and electric multiple units.

Mode of operation: The energy required to switch on the CVB is stored by a spring. It takes only a small pulse energy to unlock the main spring release latch and set free the stored energy. As soon as the supply voltage is applied, the spring gets recharged in less than 10 s. When no control voltage is being applied, the vacuum circuit breaker is in switched off position and the spring remains charged and ready for the next switching operation.

#### Features:

- Electrically driven vacuum circuit breaker
- No secondary supply energy like pressurized air required
- Versions for 15 kV and 25 kV to UIC 550 available
- Maintenance free: 200,000 operating cycles
- Following the fail safe principle

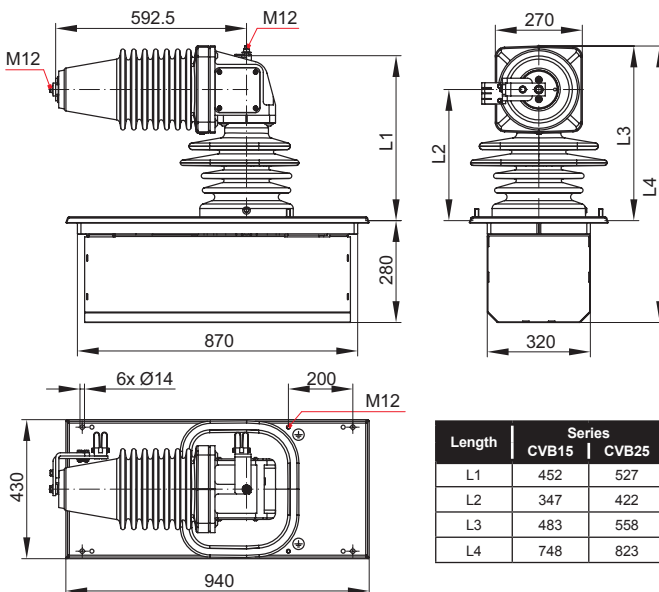
#### Standards:

- IEC 60077-4, EN 50124-1, IEC 60694, EN 50155, EN 50121-3-2

#### Application:

- AC main switch in electric locomotives and EMUs

### Dimension diagram



Dimensions in mm

### Specifications

Nominal voltage $U_N$	15 kV AC, 16% Hz OV4 / PD4	25 kV AC, 50/60 Hz OV4 / PD4
Rated operating voltage $U_e$	17.5 kV AC	30 kV AC
Rated operating current $I_e$	750 A	450 A
Short circuit breaking capacity	25 kA	20 kA
Utilization category	C3	
Control voltage $U_{control}$	24 / 110 V DC*	
Operating temperature range	-40°C ... +70°C	

#### Ordering code:

Example: **CVB15-X-110E-00**

#### Series

CVB AC vacuum circuit breaker

#### Nominal voltage

15 / 25 15 kV AC, 16% Hz / 25 kV AC, 50/60 Hz

#### BTE terminal

X / R / L none / right / left

#### Control voltage

24 / 110\* 24 / 110 V DC

#### Tolerance

E -30 % ... +25 %

#### Aux. contacts, type and number of

00 10x S826 a L, SPDT

\* Others on request