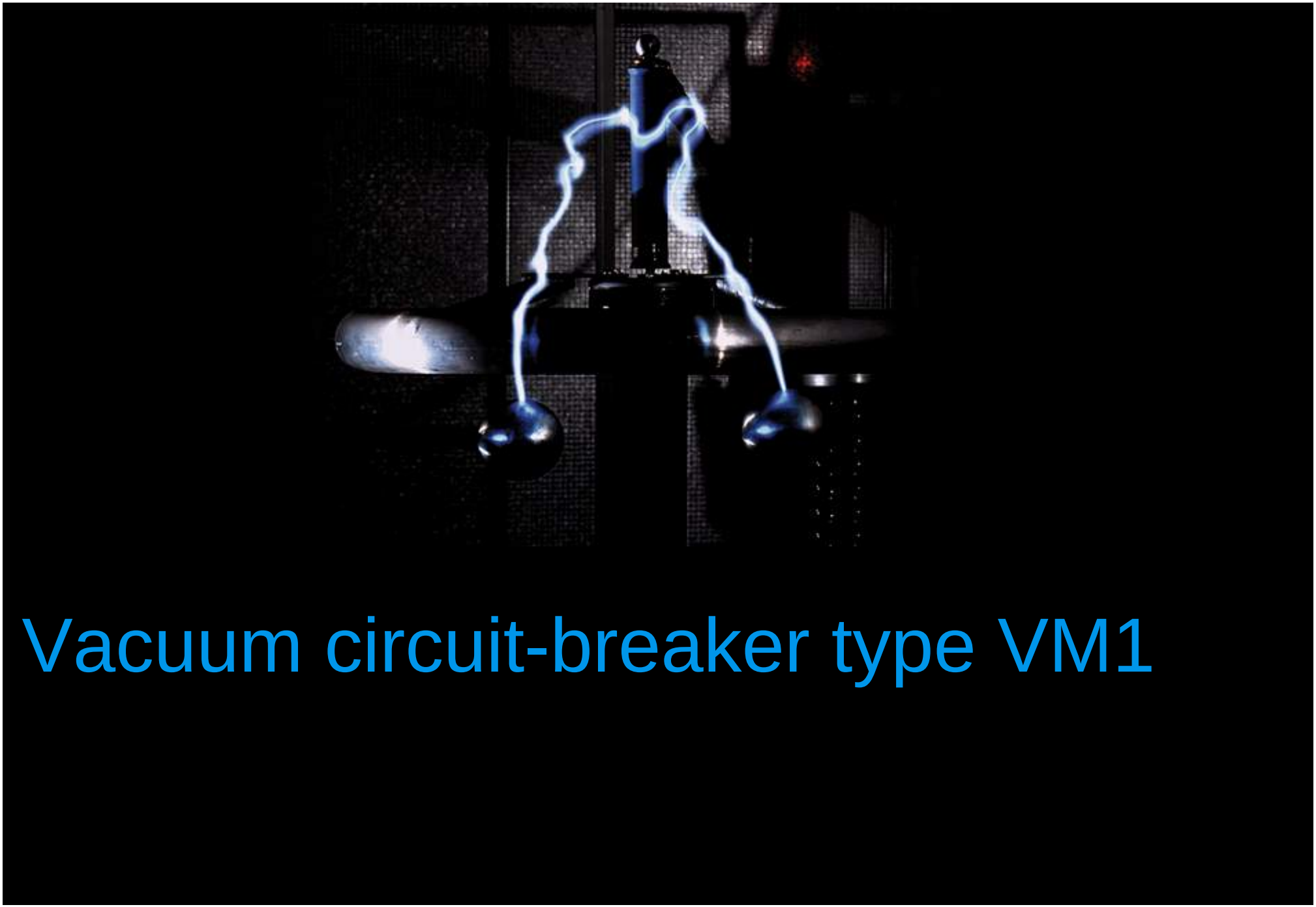


Vacuum circuit-breaker type VM1

Vacuum circuit-breaker type VM1

Mechanical operating cycles
a) Operating mechanism …100,000
b) Vacuum interrupter …30,000

Operating cycles at rated short-circuit breaking current …30,000

VM1
Vacuum circuit-breaker with magnetic actuator mechanism

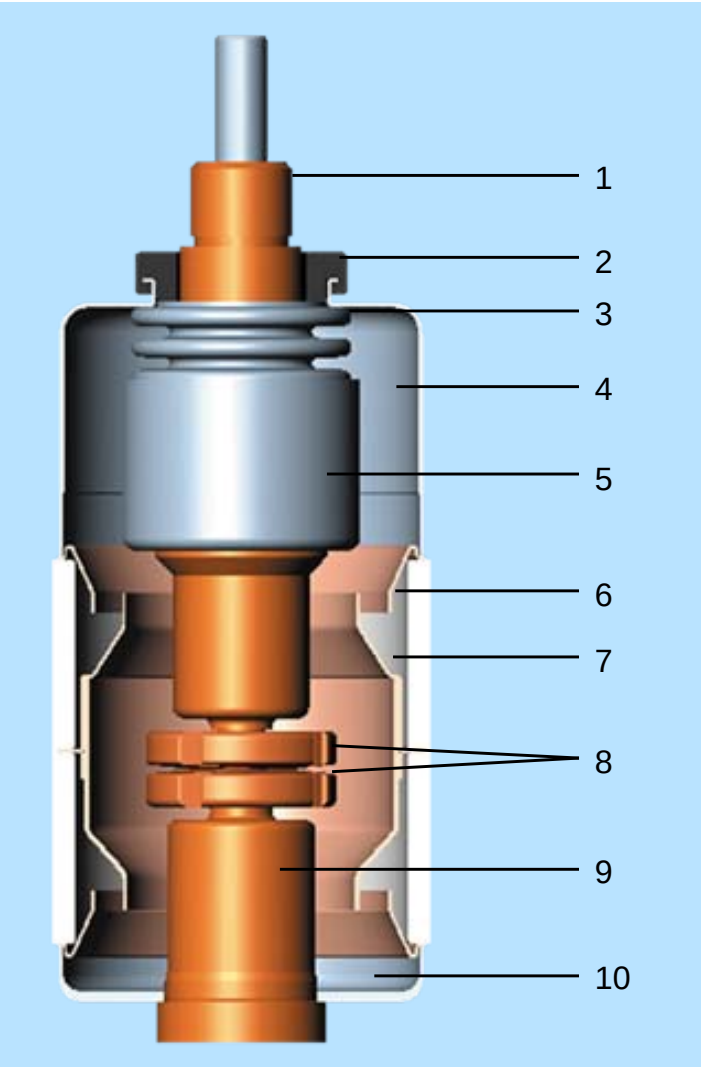
- 12 kV, …3150 [1] A, …50 kA
- 17.5 kV, …3150 [1] A, …40 kA
- 24 kV, …2500 A, …25 kA

[1] Breakers for 4000 A with fan cooling

Vacuum circuit-breaker type VM1

Removable vacuum circuit-breaker module (breaker withdrawable)

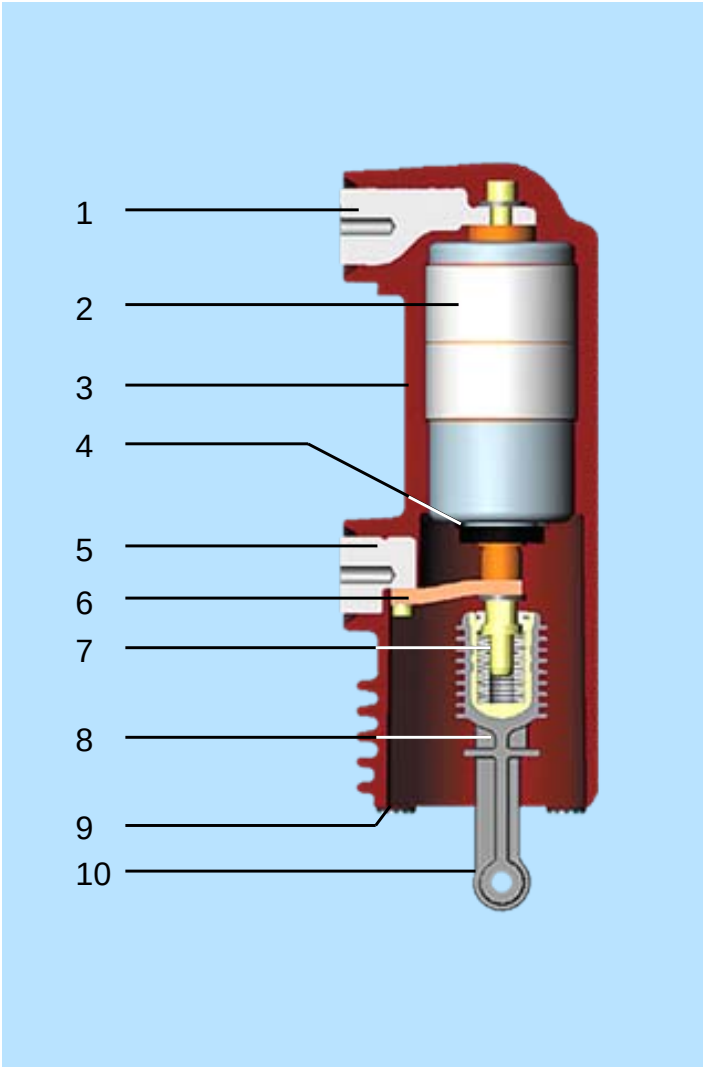
Vacuum circuit-breaker type VM1



Vacuum interrupter (principle structure)

1 Stem / terminal
2 Twist protection
3 Metal bellows
4 Interrupter lid
5 Shield
6 Ceramic insulator
7 Shield
8 Contacts
9 Stem / terminal
10 Interrupter lid

Vacuum circuit-breaker type VM1



Embedded pole (principle structure)

1 Upper terminal

2 Vacuum interrupter

3 Epoxy resin

4 Stem

5 Lower terminal

6 Flexible connection

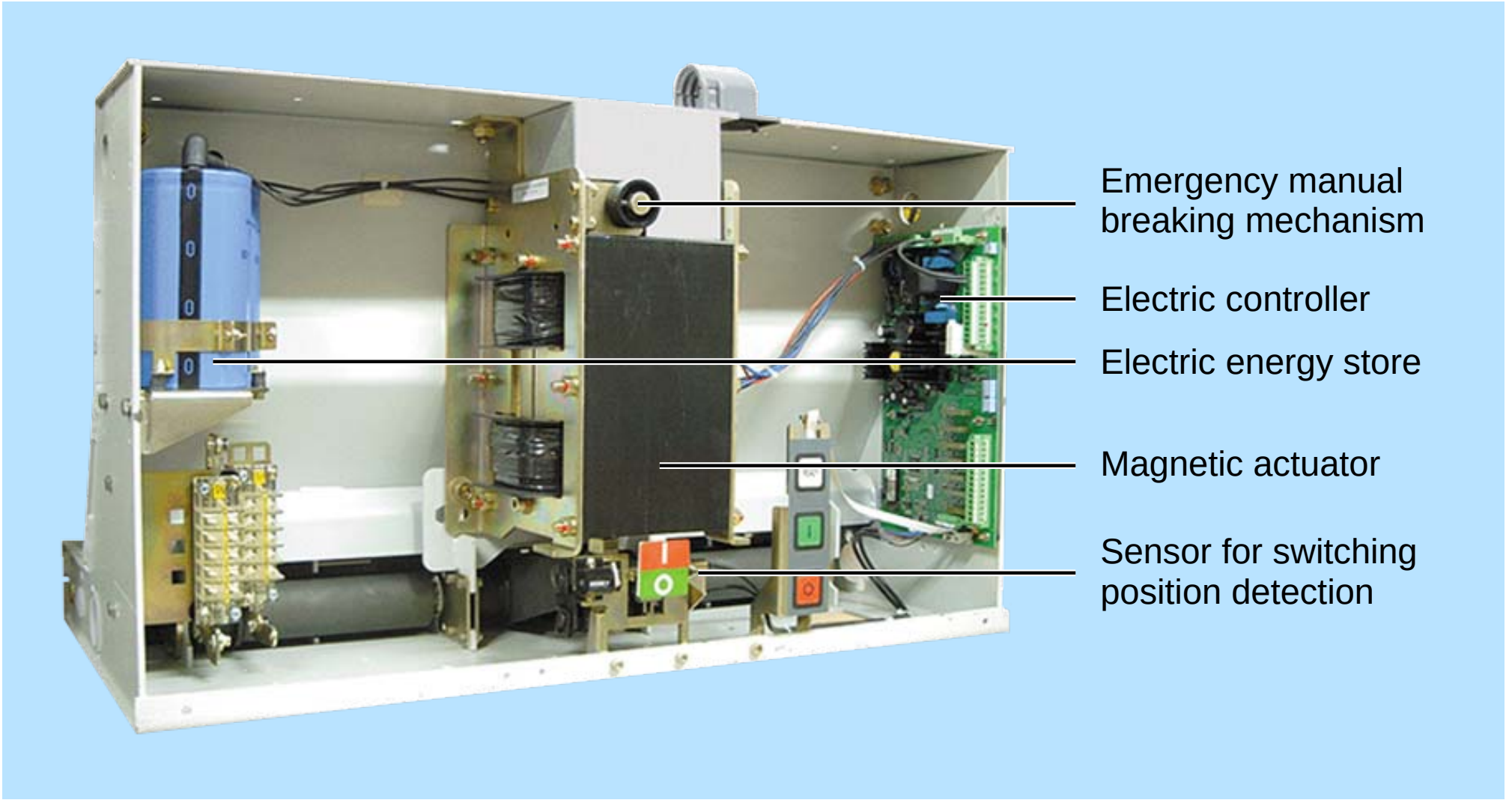
7 Contact force spring

8 Push rod

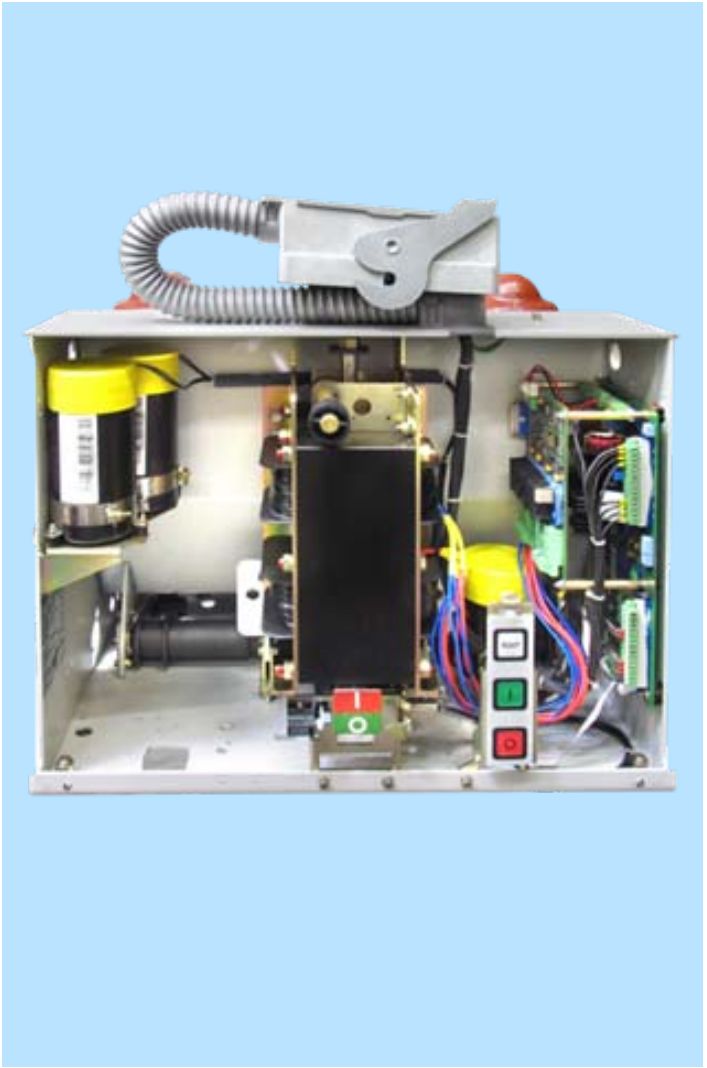
9 Fixing point

10 Connection to operating mechanism

Vacuum circuit-breaker type VM1



Vacuum circuit-breaker type VM1-T



Fast VM1-switch type VM1-T

- 12 kV, less than 20 ms respectively for closing and opening (including arcing time)
- Mechanical endurance over 2,000 operations (CO)

Vacuum circuit-breaker type VM1

All benefits at a glance

- High reliability
  (according to DIN EN 61511-1 SIL3)
- Few individual parts
- Simple mechanical sequences
- Extremely maintainability
- High quality standard
- Long life

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