

# Timetric



## Embedded Poles Type VCB

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### Product Description

#### Timetric Embedded Poles Type VCB Introduction

Embedded Poles Type VCB is an indoor switchgear for three-phase AC power system with rated voltage of 24kV and 50Hz, as the protection and control unit of power grid equipment and power equipment in industrial and mining enterprises. It is suitable for frequent operation at rated working current, or many times to break the short circuit current.

The circuit breaker adopts the integrated design of the operating mechanism and the circuit breaker body, which can be used as the fixed installation unit and also equipped with a special propulsion mechanism to form the role of the handcart unit.

#### Timetric Embedded Poles Type VCB Parameter (Specification)

No.	Required	unit	value			
1	Rated Voltage	kV	12			
2	Rated Frequency	Hz	50			
3	Rated lightning impulse withstand voltage(peak)	kV	42			
4	Rated power frequency withstand voltage (1s)(Effective)	kV	75			
5	Rated short-circuit breaking current	kA	20	25	31.5	40
6	Rated current	A	630,1250	630,1250,1600	1250,1600	1600,2000
					2000,2500	2500,3150

7	Rated peak withstand current	kA	50	63	80	100
8	Rated short time withstand current	kA	20	25	31.5	40
9	Rated short circuit continuous time	s	4			
10	Rated short-circuit on/off current	kA	50	63	80	100
11	Percentage of the d c component of the rated short-circuit breaking current	%	35			
12	Rated operation sequence		O-0.3s-CO-180s-C			
			O-180s-CO-180s-C(40kA)			
13	Rated single/back-to-back capacitor bank breaking current	A	630/400	630/400	630/400	800/400
14	Rated short-circuit current breaking	times	50	50	50	30
15	Mechanical life	times	10000			
16	Rated opening/closing operation voltage	V	AC/220 D C/220			
17	Rated voltage of energy storage motor	V	AC/220 D C/220			
18	Power frequency withstand voltage of secondary circuit	V	2000			

### Timetric Embedded Poles Type VCB Advantage

- Simple structure
- Adapt ultra low resistance type vacuum interrupter
- Adapt optimization and modular spring operating mechanism
- Suitable for occasions with frequent operation
- Free maintenance and long service life
- High reliable performance