



HUM17-40 series mini circuit breaker

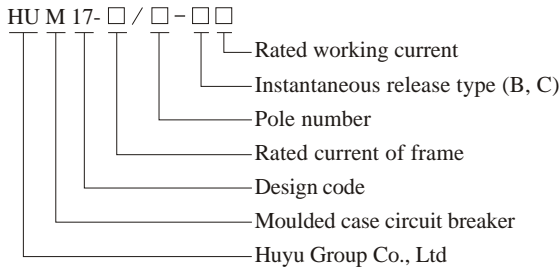


Certification:KEMA

Application

This circuit breaker is applied to protect the over-current of electrical apparatus and circuit device of construction and similar buildings in the circuit of AC 50Hz, rated voltage 230V/ 400V and max rated current 40A. It can also be applied as the unfrequency make-break operation.

Model No. and signification



Main technical parameter

- Frame size rated current I_{nm} : 40A
- Rated voltage U_e : 50Hz, 230V/400V.
- Rated current I_n : 6, 10, 16, 20, 25, 32, 40A.
- Rated limit short circuit breaking capacity I_{cu} : 6000A.
- Rated limit operation breaking capacity I_{cs} : 6000A.
- Pole number: 1P, 1P+N, 2P, 3P, 3P+N, 4P.
- Mechanical lifetime: 20000 times.
- Electric lifetime: 8000 times.
- Type of instantaneous release and releasing current range:
B type $3I_n \sim 5I_n$;
C type $5I_n \sim 10I_n$;

Normal working conditions

1. Normal working conditions

1.1 The maximum ambient temperature should be $-5^\circ\text{C} \leq T \leq +40^\circ\text{C}$, average temperature should be $\leq 35^\circ\text{C}$ at 24h.

1.2 The altitude of installation place should not exceed 2000m. The relative humidity should not exceed 50% at 40°C , it permitted higher relative humidity when at higher temperature, the average maximum relative humidity should not exceed 90% at maximum humidity month, and this month's average minimum temperature not exceed $+25^\circ\text{C}$, and should take consider of the condensation on the product's surface for temperature change.

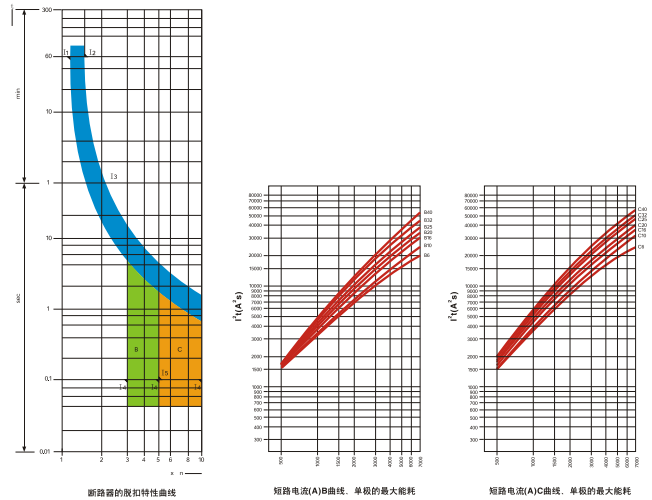
2. Installation conditions

2.1 Installation type: -II, III

2.2 The mini circuit breaker installed by standard mounting rail.

2.3 The mini circuit breaker is uprightness installation, knob upwards is switch on position.

2.4 The installation place should not obviously impact and librate.



Tripping characteristic type and application range of breaker

Tripping characteristic	Tripping characteristic	Application range
B	Characteristic B is used in a case where need shorter tripping time and lower short-circuit current. The allowed short time overload current $< 3I_n$.	Protection against transformer's second circuit
C	Characteristic C is applied in most electric circuit where permit higher short-time load current (Max is $5I_n$) and miniature breaker have no action.	Protection against general electric circuit

Tripping characteristic

		B	C	Tripping time
Thermal tripping	I1	$1.13 \times I_n$	$1.13 \times I_n$	$\geq 1\text{h}$
	I2	$1.45 \times I_n$	$1.45 \times I_n$	$< 1\text{h}$
Magnetic tripping	I3	$3 \times I_n$	$5 \times I_n$	$\geq 0.1\text{s}$
	I4	$5 \times I_n$	$10 \times I_n$	$< 0.1\text{s}$

Contour and installation dimension

