

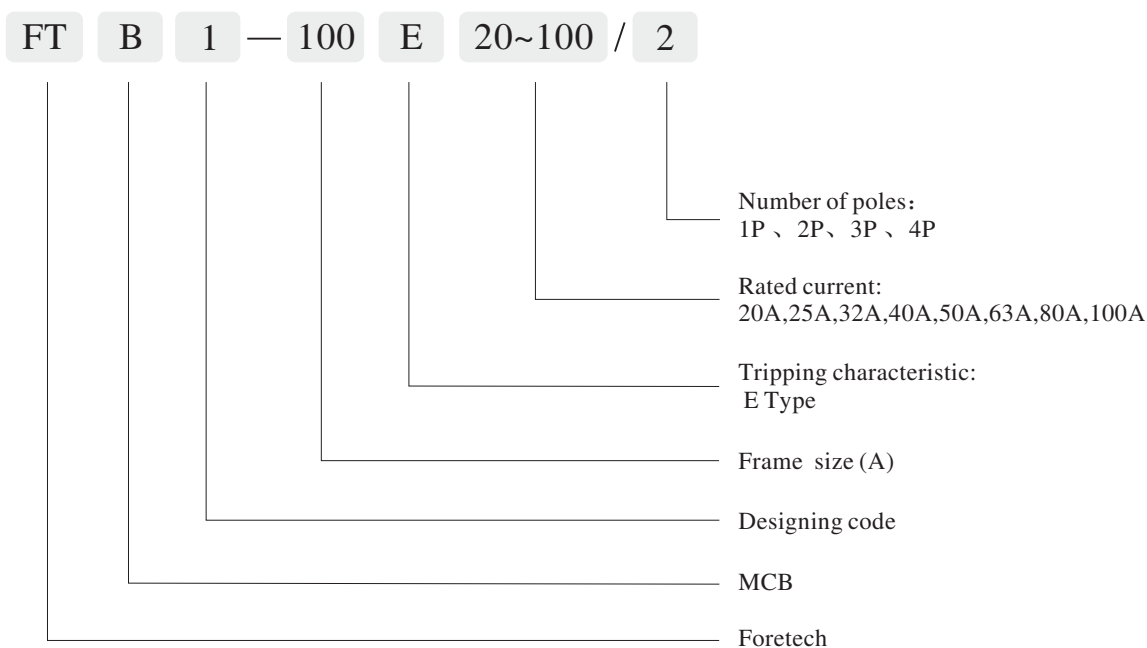


FTB1 series

Selective main circuit-breaker



■ Product illustration:



FTB1_{series}

Selective main circuit-breaker

Accessories

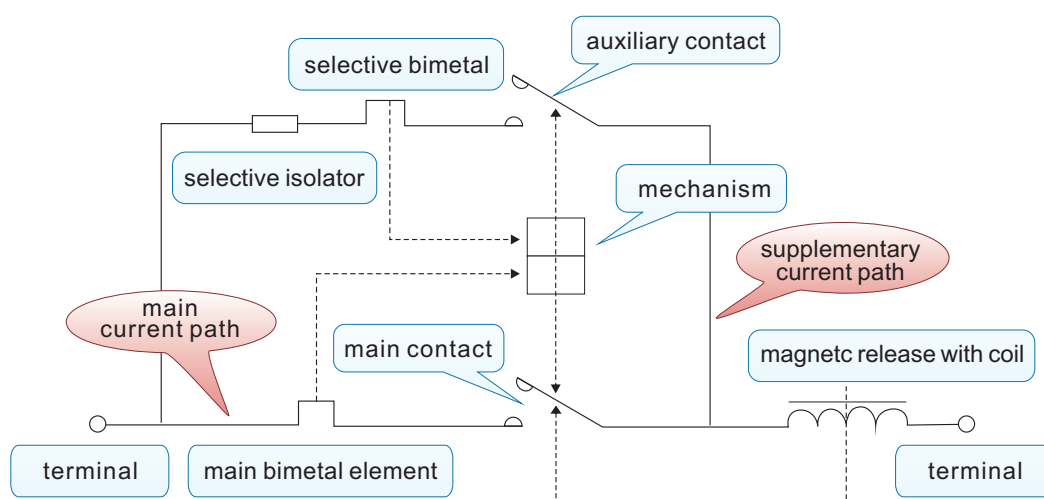
Auxiliary contact	Auxiliary contact and alarm contact	Shunt release	Shunt release and auxiliary contact	Under voltage release	Over voltage release	Busbar mounting base	Motor-driven operation
OF	OF+SD	MX	MX+OF	MQ	MG	MP	CD

■ Product Features

Under normal condition, the working principle of FTB1 SMCB is the same to the usual circuit breakers, the thermostic bimetal is used for overload tripping.

when there is a short-circuit on a branch circuit breaker, the magnet core in the main current path would tilt the moving contact away from the fixed contact to break the circuit, thus producing the electric arc, and limiting the short-circuit current effectively.

When the downstream circuit-breaker has tripped because of a short-circuit, the contact tips reclose automatically through a simple spring-type system, ensuring other unaffected branch circuits continue in operation.



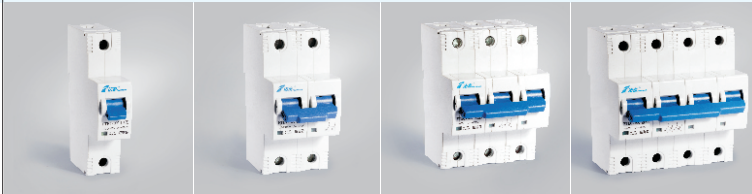
FTB1_{series}

Selective main circuit-breaker

■ Scope of use

It is primarily used in critical installations, for instance, office building, laboratory, theatre, museum, hotel, shopping mall, telecommunication, coal mine and shipping, chemical industry and metallurgy, industrial plants, medical and health care, bank and securities exchange, airport, underground express way, military establishment and similar loads that requires non-interrupted and reliable power supply.

■ Technical Data

Model	FTB1-100			
Number of poles				
	1P	2P	3P	4P
Rated frequency:	AC 50(60)Hz			
Rated voltage (V) AC	230/400			
Rated current (A)	20, 25, 32, 40, 50, 63, 80, 100			
Breaking capacity I _{cn} /I _{cs} (KA)	L		15/7.5	
Rated impulse withstand voltage (kV)	6			
Tripping characteristic	E			
Electric arc distance(mm)	≤35			
Mechanical life	10,000			
Insulation function	yes			
Installation				
Pollution degree	III			
Ambient temperature (°C)	-5°C ~ +40°C			
Altitude (m)	Not higher than 2000m			

FTB1_{series}

Selective main circuit-breaker

Installation	Mounted on DIN rail, busbar adaptor or by screw terminal			
Connection capacity:	Connection to cables, busbars or terminals			
Weight (g)	313	617	932	1241

■ Tripping behavior

Test	Tripping characteristic	Conventional non-tripping current	Conventional tripping current	Initial status	Tripping time
a	E	1.05I _n	1.2I _n	Cold status	≥ 2h
b	E			Right after test 1	< 2h
Test	Tripping characteristic	Delayed tripping current	short-time delayed tripping current	Initial status	Tripping time
c	E	5I _n	6.25I _n	Cold status	0.05s < t < 5s (I _n ≤ 32A) 0.05s < t < 10s (I _n > 32A)
d	E			Cold status	0.01s < t < 0.3s

■ Tripping behavior

The FTB1 series operates selectively with respect to the combination with MCBs

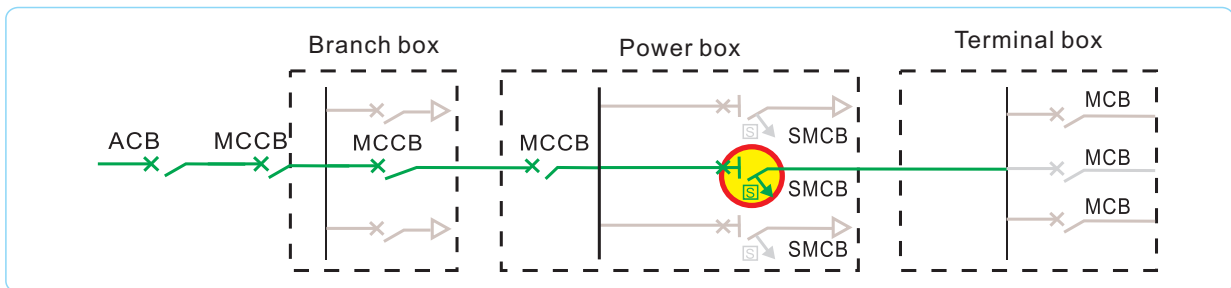
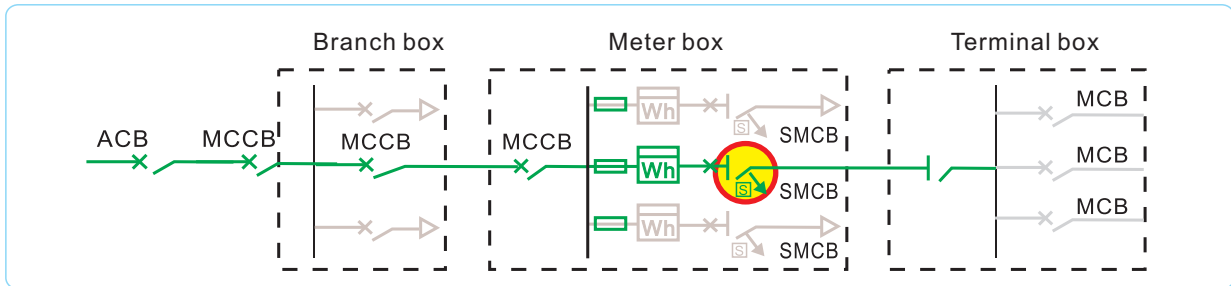
MCB (B,C characteristic)	FTB1(Characteristic E)							
I _n A	20	25	32	40	50	63	80	100
10	T	T	T	T	T	T	T	T
16		T	T	T	T	T	T	T
20			T	T	T	T	T	T
25				T	T	T	T	T
32					T	T	T	T
40						T	T	T
50							T	T
63								T

Note: T represents total selectivity

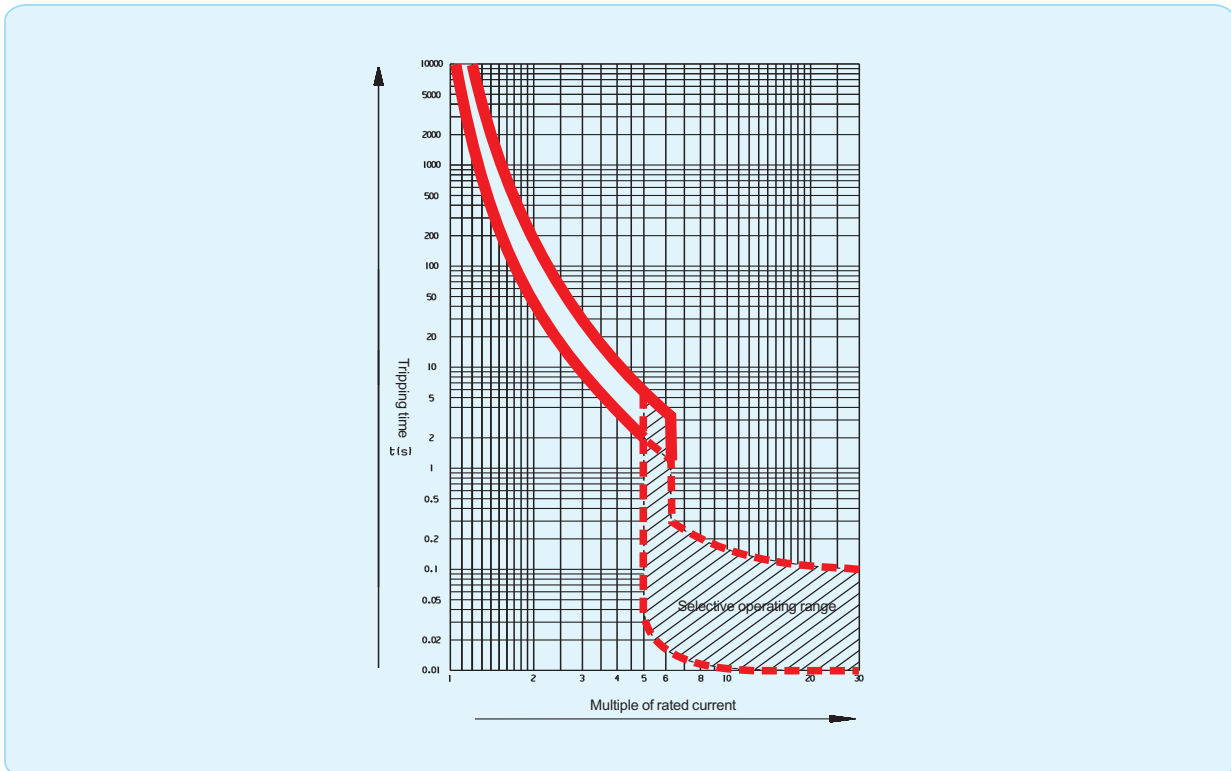
FTB1 series

Selective main circuit-breaker

Applications



Tripping characteristic



FTB1_{series}

Selective main circuit-breaker

■ Exterior and dimensions

Unit(mm)

