

Compact and innovative by design

Get greater versatility and a smallest-in-class footprint
with FBX gas-insulated switchgear



Continuity
of service



Easy
extensibility



Safety



Smart
grid-ready

Schneider
Electric™

Safety through innovation

FBX is a compact, innovative gas-insulated switchgear rated up to 24 kV and 630 A, with an internal arc withstand of up to 25 kA/1 s. A total of five functions can be combined for maximum versatility.

FBX is available in two easy-to-install, extremely configurable versions. Its compact version, FBX-C, has the narrowest footprint on the market. Whereas its extensible version (double or single), FBX-E, can easily evolve with your electrical

distribution needs thanks to a patented A-link device.

All of this makes FBX the logical choice for a wide variety of modern applications. Whether serving as a ring main unit in a secondary public distribution network or as a switchboard for industrial or infrastructure networks, it delivers world-class performance with a minimal cost of ownership.

CB630A



FBX is continually being improved upon.

One of the latest innovations is the CB630A, a fast reclosing vacuum circuit breaker: O – 0.3 s – CO – 15 s – CO.

The CB630A unit is only 490 mm wide and is extensible on both sides.



Maximum continuity of service

FBX is based on an innovative, elegantly simple design which ensures maximum continuity of service.

- > LSC2A-class continuity of service
- > Key live parts are sealed for life in a stainless steel, SF₆-filled tank, making them impervious to environmental conditions
- > No maintenance of tank-sealed parts during product lifetime
- > Flood-proof design.



Easy to install and operate

With the narrowest footprint on the market and easy extensibility, FBX cuts the time and effort needed to set up an electrical network.

- > Compact size makes installation easy
- > Spacious cable compartment for MV cable connection
- > Simple fuse replacement
- > Easy to extend through patented A-link system.



Engineered for safety

FBX's design puts safety first, ensuring the highest level of security for personnel and equipment.

- > FBX meets the key national or international standards currently in force: IEC, NF, CNS, and IS
- > Internal arc withstand of up to 25 kA/1 s (for 12 kV use)
- > Hot gas release away from operator in the unlikely event of an internal arc, thanks to pressure valves and a rear duct
- > Integrated interlocks ensuring fool-proof protection
- > A comprehensive range of key- and padlocking options.



Easergy T200 I

Smart grid-ready

Electrical networks are evolving to handle distributed generation and renewable energies. FBX is built to evolve along with them.

- > Remote control and monitoring capability, with open communications and an auto-transfer switch, thanks to the Easergy™ T200 I remote terminal unit
- > Enhanced power availability or restoration through the CB630A's O-C-O fast reclosing function
- > Variety of fault passage indicators, including directional fault indicators.

Over
250,000

FBX functions installed worldwide



Electric utilities



Industry



Wind



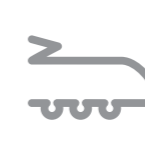
Mining



Oil and Gas



Infrastructure



Railway



Airport



Solar

Flexible in form and function

Technical characteristics

Rated voltage	kV	12	17.5	24
Rated withstand voltage at 50 Hz 1 mn to earth and between poles	kV	28	38	50
Rated withstand voltage lightning impulse to earth and between poles	kV	75	95	125
Short time current value (1 s)	kA rms	16/21/25	16/21	16/21
Short time current value (3 s)	kA rms	16/21	16/21	16/21
Short time current peak value	kAp	40/52.5/62.5	40/52.5	40/52.5
Cubicle rated current	A	630	630	630
Busbar rated current	A	1 250 ⁽¹⁾	1 250 ⁽¹⁾	1 250 ⁽¹⁾
IAC classification according to IEC 62271-200	kA 1 s	21/25 ⁽²⁾	16/21	16/21

(1) With a top 1 250 A busbar

(2) Please consult us

Main Functional Units

Names	C	T1	T2	R	RE	Sb	CB	M
Functions	Cable incoming or outgoing feeder with switch-disconnector	Transformer protection with switch-disconnector fuse combination	Transformer protection with vacuum circuit-breaker	Direct incoming feeder without earthing switch	Direct incoming feeder with earthing switch	Busbar switch-disconnector	Outgoing feeder protection with O-C-O vacuum circuit-breaker	Metering
Mimic diagrams								

Approximate dimensions and weights for selected configurations

Version	Function	Number of functional units	Height ⁽¹⁾ (mm)	Depth (mm)	Width ^{(2) (3)} (mm)	Weight (kg)
FBX-C	C-T1	2	1 380 (1 040 optional)	752	680	200
	C-C-T1	3	1 380 (1 040 optional)	752	1 000	330
	C-T1-C-T1	4	1 380 (1 040 optional)	752	1 320	470
	C-C-C-C-T1	5	1 380 (1 040 optional)	752	1 685	550
FBX-E	C	1	1 380	752	360	135
	CB	1	1 380	873	490	220
	RE-T2	2	1 380	752	680	250
	C-C-T2	3	1 380	752	1 000	370
	C-C-C-C	4	1 380	752	1 320	450

(1) With a 1 250 A busbar on the top, add 217 mm

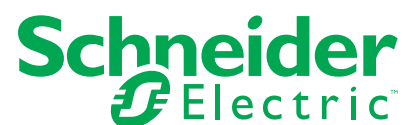
(2) Add 17.5 mm for the busbar protective covers (right or left) at the extremity of the switchboard

(3) To calculate the total width of several connected FBX-E switchboards, add 9 mm between each extension

Make the most of your energySM

Schneider Electric Industries SAS

Head Office
35 rue Joseph Monier
92500 Rueil Malmaison Cedex- France
Tel.: +33 (0)1 41 29 70 00
www.schneider-electric.com



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