



FED-SUPREMETECH LIMITED

ASSOCIATED WITH FEDERAL ELECTRIC OF U.K.



ASTA CERTIFIED TO BS EN60439 PART 1 & 2

FED-SUPREMETECH BUSBAR CHAMBERS

250A to 800A

DESIGN & CONSTRUCTIONS

The FED-SUPREMETECH busbar chambers are designed and constructed to BS EN60439-1 and BS EN60439-2. The full range of busbar chambers are suitable for wall mounting or pedestal fixing. It provides a simple and easy connection to distribution switchgear. The unit can be extended on both ends by using the standard extension kits.

RATING

Standard ratings are 250A, 400A, 630A and 800A. Larger rating busbar chambers can also be supplied upon request.

ENCLOSURE

The standard enclosure is made from 1.5mm thick zintic sheet steel folded to form a rigid construction. The covers are fitted with gasket and fixed to the enclosure by dome nuts. The enclosure is coated with stoved epoxy powder paint with light blue finish to BS4800 colour code reference 20-C-37.

BUSBAR

The FBC-250 250A single bar system busbar chambers consist of single bar per phase with fixing holes provided at 100mm centres for easy connection of incoming and outgoing cables.

Other models and ratings of busbar chambers consist of twin bar per phase which provides reliable and easy connections with the use of standard connectors.

Busbars are made of hard drawn high conductivity tinned copper.

TEE OFF CONNECTOR

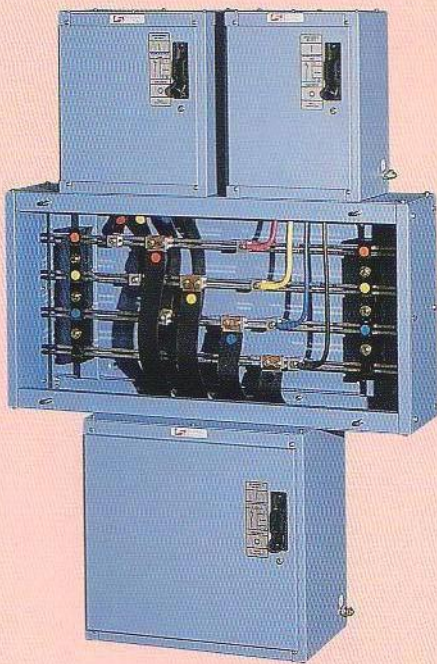
No drilling on the busbars is required for tee off connections. A comprehensive range of standard connectors are available for cable termination to the busbars.

Standard INSULATED FLEXIBARS are also available for connection to "FEDERAL" XQE range surface mounting fuseswitches/switches.

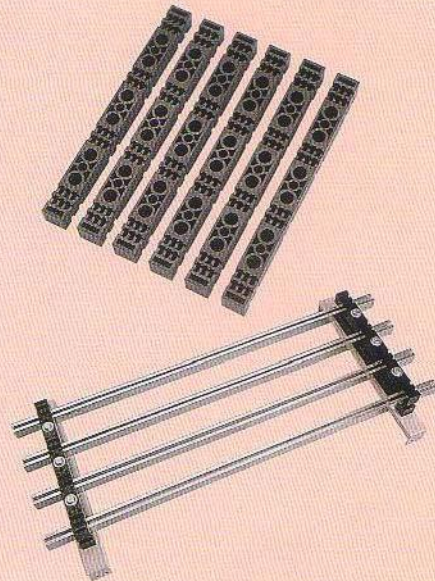
Sufficient space is provided in the busbar chambers for cable or busbar connections.

FED-SUPREMETECH LIMITED

FBC BUSBAR CHAMBERS



- TYPICAL CONNECTION TO WALL MOUNT SWITCHES BY FLEXIBARS AND CABLES



- BUSBARS MOUNTED ON GLASS FILLED POLYCARBONATE SUPPORTS WITH EXCELLENT ELECTRICAL, MECHANICAL AND THERMAL PROPERTIES.



- QUALITY ASSURANCE



- ROBUST CONSTRUCTION
- EXTENDABLE ON EITHER ENDS

TECHNICAL INFORMATION

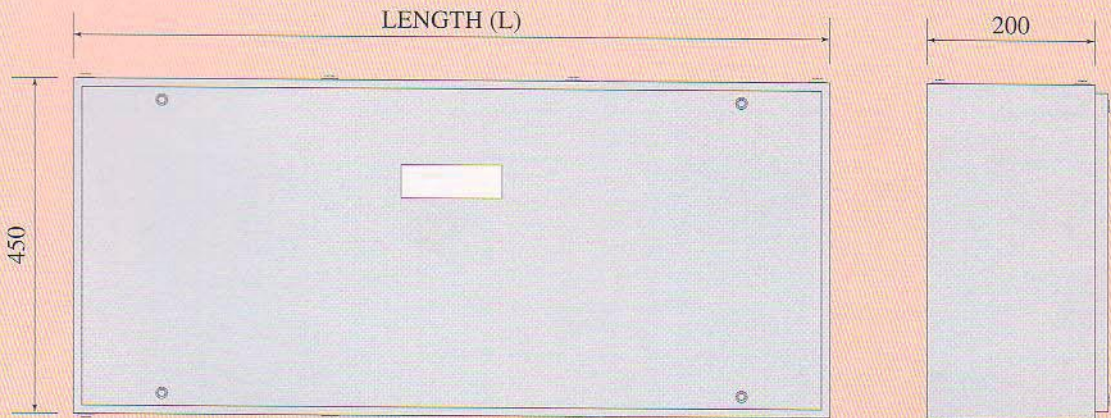
- | | |
|--------------------------------------|---|
| 1. Designation | Type FBC |
| 2. Standard | BS EN60439-1:1994 and BS EN60439-2:1993 |
| 3. Rated current | 250A, 400A, 630A and 800A.
Larger rating can be supplied upon request. |
| 4. Rated operational voltage | 440 volt a.c. 50Hz |
| 5. Rated insulation voltage | 1000 volt a.c. |
| 6. Rated impulse withstand voltage | 2.5KV for 1 minute |
| 7. Short circuit & withstand current | 50KA fused short circuit current for 250A to 630A busbar chambers
40KA 1sec. for 800A busbar chambers |
| 8. Degree of protection | IP31 in accordance with BS EN60529:1992.
Higher protection such as IP41 or IP42 can be supplied upon request. |
| 9. Services conditions | Standard IP31 busbar chambers are suitable for indoor use |
| 10. Ambient air temperature | The ambient air temperature does not exceed +40°C and its average over a period of 24 hours does not exceed +35°C, the lower limit is -5°C. |
| 11. Relative humidity | up to 99.5% |
| 12. Pollution degree | Pollution degree 3 unless otherwise specified |

CERTIFICATIONS



• TESTED TO BS EN60439-1 AND BS EN60439-2

DIMENSIONS



• SAME HEIGHT AND DEPTH FOR 250A TO 800A.
• SPECIAL ADAPTOR BOX CAN BE SUPPLIED TO SUIT CUSTOMER'S REQUIRMENTS UPON REQUEST.

CATALOGUE REFERENCE

1. SINGLE BAR SYSTEM BUSBAR CHAMBERS

SERIES	CURRENT RATING	CATALOGUE REFERENCE OF STANDARD LENGTHS				
		600 mm	900 mm	1200 mm	1500 mm	1800 mm
FBC - 250	250A	SB 0206	SB 0209	SB 0212	SB 0215	SB 0218

(N.B. This type of 250A busbar chamber will be supplied if particular model is not specified.)

2. TWIN BAR SYSTEM BUSBAR CHAMBERS

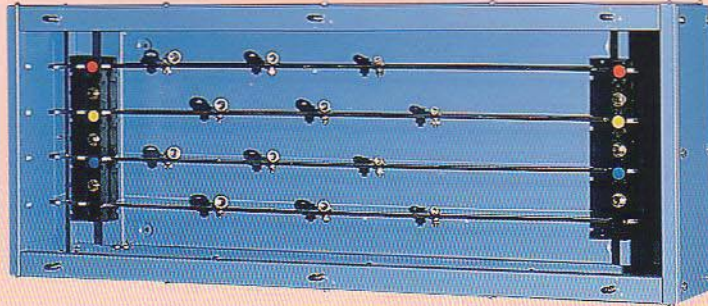
SERIES	CURRENT RATING	CATALOGUE REFERENCE OF STANDARD LENGTHS				
		600 mm	900 mm	1200 mm	1500 mm	1800 mm
FBC - 250T	250A	TB 0206	TB 0209	TB 0212	TB 0215	TB 0218
FBC - 400	400A	TB 0406	TB 0409	TB 0412	TB 0415	TB 0418
FBC - 630	630A	TB 0606	TB 0609	TB 0612	TB 0615	TB 0618
FBC - 800S	800A	TB 0806	TB 0809	TB 0812	TB 0815	TB 0818

3. TEE OFF CONNECTOR

RATING	CATALOGUE REF	MAXIMUM CABLE SIZE
250A	TC 250	1 x 120 mm ²
400A	TC 400	2 x 240 mm ²
630A	TC 630	2 x 400 mm ²
800A	TC 800	2 x 400 mm ²

4. FLEXIBAR FOR CONNECTION TO " FEDERAL " XQE SWITCHES

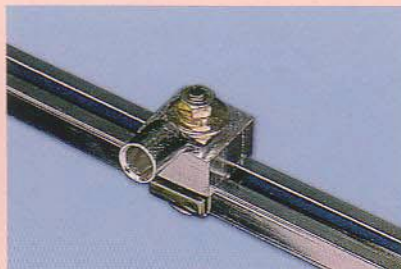
RATING	CATALOGUE REF	REMARKS
250A	FXB 250	For " Federal " XQE 250 TN
400A	FXB 400	For " Federal " XQE 400 TN
630A	FXB 630	For " Federal " XQE 630 TN



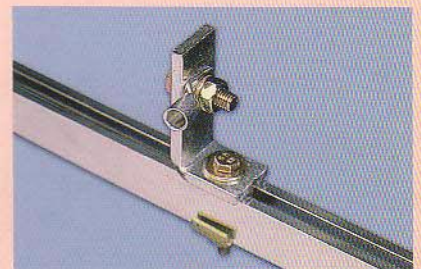
FBC - 250
SINGLE BAR SYSTEM



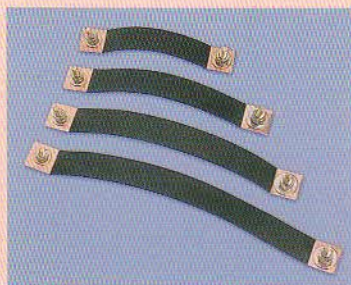
TEE OFF CONNECTION
TO FBC - 250



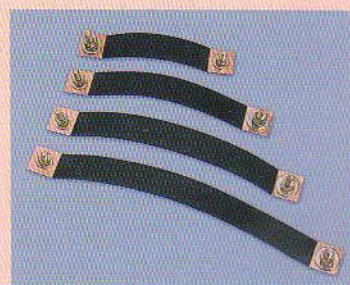
TC 250
TEE OFF CONNECTOR



TC 400
TEE OFF CONNECTOR



FXB 400
400A TP&N FLEXIBAR



FXB 630
630A TP&N FLEXIBAR