# EBH000 Horizontal fuse switch disconnectors, size 000, 160 A and 690 V a.c.

## EBH000 - Technical data

| Parameters | EBH000 | | | | |
|---|---|---|---|---|---|
| Rated thermal current $I_{th}=I_n$ | 160 A | | | | |
| Rated voltage $U_n$ | 690 V a.c. | | | | |
| Utilisation category | AC-23B | AC-22B | AC-22B | AC-21B | DC-21B |
| Rated switching voltage $U_e$ | 400 V a.c. | 690 V a.c. | 400 V a.c. | 690 V a.c. | 250 V a.c. |
| Rated switching current $I_e$ | 100 A | 100 A | 160 A | 160 A | 160 A |
| Rated short circuit making current | 25 kA | | | | |
| Rated short circuit withstand current | 100 kA | | | | |
| Rated insulation voltage $U_i$ | 1000 V | | | | |
| Rated impulse withstand voltage $U_{imp}$ | 8 kV | | | | |
| Rated power dissipation | 12 W | | | | |
| Rated frequency | 50-60 Hz | | | | - |
| Mechanical durability (number of cycles) | 2000 | | | | |
| Electrical durability (number of cycles) | 300 | | | | |
| IP degree of protection (IP) | IP 20 | | | | |
| Compatible NH Fuse link body size | 000 | | | | |
| Accessories see page 52 | | | | | |



EBH000
for installation on mounting plate

EBH
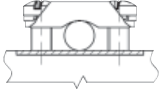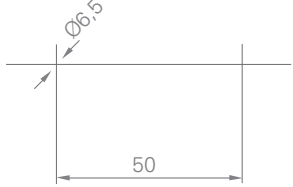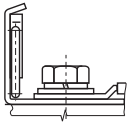
## EBH000 - Catalogue numbers

| Installation on mounting plate | | Cable terminal |
|---|---|---|
| EBH00003TS5 | For connection of round conductors | S-bridge clamps |
| EBH00003TS5-D | For connection of round conductors, possible installation on DIN-Rail | S-bridge clamps |
| EBH00003TM8 | For connection of round conductors with lug terminals | M8 screws |
| EBH00003TM8-D | For connection of round conductors with lug terminals, possible installation on DIN-Rail | M8 screws |
| EBH00003TS5L | For connection of round conductors,lengthened terminal shrouds | S-bridge clamps |
| EBH00003TM8L | For connection of round conductors with lug terminals, lengthened terminal shrouds | M8 screws |
| **60 mm busbar system** | | **Cable terminal** |
| EBH00013TBS5 | Cable terminal – bottom, for connection of round conductors | S-bridge clamps |
| EBH00013TTS5 | Cable terminal – top, for connection of round conductors | S-bridge clamps |
| EBH00013TBM8 | Cable terminal – bottom, for connection of conductors with lug terminals | M8 screws |
| EBH00013TTM8 | Cable terminal – top, for connection of conductors with lug terminals | M8 screws |

# EBH000, Horizontal fuse switch disconnectors, size 000, 160 A and 690 V a.c.

## EBH000 - Terminal clamps details

| Description | Clamp | Drawing of clamp | Cross-section of conductors | Cu busbar | Tightening torque | Dimensions and spacing of holes for installation of EBH000 on mounting plate |
|---|---|---|---|---|---|---|
| EBH000 | S-bridge clamp 2 x M5 x 16 | | Cu/Al conductor 1,5 - 35 mm$^2$ | maximum busbar width 15 mm | 3 Nm* | Ø6,5    50 |
| | M8 x 16 screw | | conductor with lug terminal up to 70 mm$^2$ | maximum busbar width 15 mm | 10 Nm* | |

For stranded conductors using cable ferrules is recommended
*Using of torque wrench is recommended

EBH000
for mounting on DIN-Rail

EBH000 for installation on mounting plate
with double terminal shrouds

EBH000
for installation on mounting plate
with single terminal shrouds

EBH000 for installation on 60 mm busbar system

# Compact EBC000 Horizontal fuse switch disconnectors 125 A, 690 V a.c. for mounting on plate and on double DIN-Rail and for installation on 60 mm busbar system*

Compact dimensions - consume half the space

Protective covers provide touch protection

Built-in hooked clamps provide fast installation on busbar system

Top/bottom cable terminal

## EBC000 - Technical data

| Description | EBC000 | | | |
|---|---|---|---|---|
| Rated thermal current $I_{th}$ | 125 A | | | |
| Rated voltage $U_n$ | 690 V a.c. | | | |
| Utilisation category | AC-21B** | AC-22B*** | AC-23B | DC-22B |
| Rated switching voltage $U_e$ | 690 V a.c. | 690 V a.c. | 400 V a.c. | 250 V a.c. |
| Rated switching current $I_e$ | 125 A | 125 A | 125 A | 100 A |
| Rated short circuit making current | 50*/35** kA (690 V a.c.) / 50 kA (500 V a.c.) / 80 kA (400 V a.c.) | | | 20 kA (400, 500 & 690 V a.c.) |
| Rated short circuit withstand current | 80 kA (400, 500 & 690 V a.c.) | | | 20 kA (400, 500 & 690 V a.c.) |
| Rated insulation voltage $U_i$ | 1000 V | | | |
| Rated impulse withstand voltage $U_{imp}$ | 6 kV | | | |
| Rated power dissipation | 9 W | | | |
| Rated frequency | 50-60 Hz | | | - |
| Mechanical durability (number of cycles) | 1600 | | | |
| Electrical durability (number of cycles) | 200 | | | |
| IP degree of protection | IP 30 | | | |
| Compatible NH Fuse link body size | 000 | | | |

*- EBH 000 , ***- EBH 000 -S

EBC000

## EBC000 - Catalogue numbers

| Installation on mounting plate | | Cable terminal |
|---|---|---|
| EBC000O3TF | For connection of round conductors | Frame clamps |
| **Installation on double DIN-Rail** | | **Cable terminal** |
| EBC0003TF-D125 | Double DIN-Rail with spacing of 125 mm | Frame clamps |
| EBC0003TF-D150 | Double DIN-Rail with spacing of 150 mm | Frame clamps |
| **60 mm busbar system** | | **Cable terminal** |
| EBC00013TTF | Cable terminal-top, for connection of conductors with busbar ends | Frame clamps |
| EBC00013TBF | Cable terminal-bottom, for connection of conductors with busbar ends | Frame clamps |

## EBC000 - Terminal clamps details

| Description | Cable terminal | Drawing of clamp | Cross-section of conductors | Tightening torque |
|---|---|---|---|---|
| EBC000 | Frame clamps | | 2,5 - 50 mm⁻ | 6 Nm 3 Nm**** |

For stranded conductors using cable ferrules is recommended
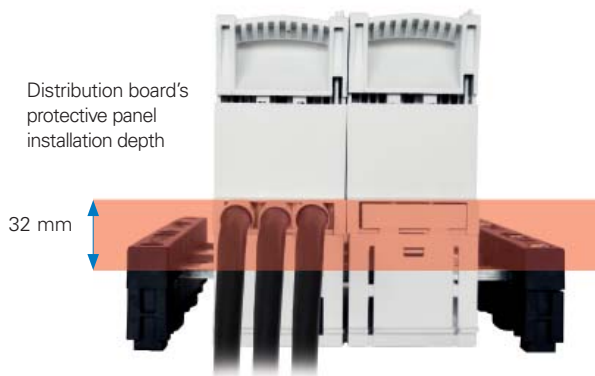
****Using of torque wrench is recommended

# Save space in the switchboard with EBC000*

EBC000 -S (EBC000 ) width dimensions is equal to half the width of EBH00 -S (EBH00 ), so we can install more disconnectors (keeping a certain width of the switchboard) to protect individual circuits in the switchboard.



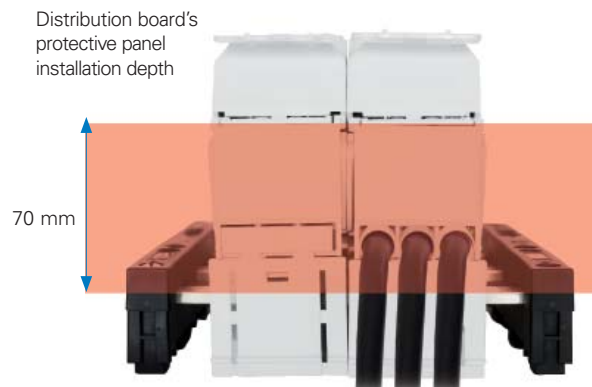EBH00          EBC000                    EBH00          EBC000
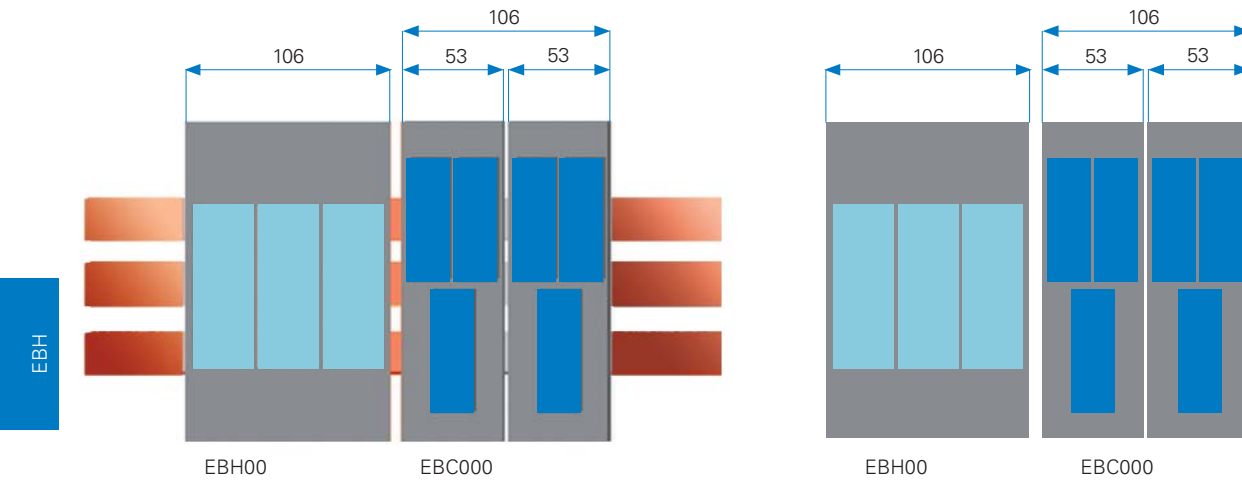
Fuse switch disconnectors EBC000 are designed for installation of distribution board's protective panels at two depths: covering system at 70 mm depth: covering system at 32 mm and 70 mm depth

**Covering system at 32 mm depth**



Distribution board's protective panel installation depth

32 mm

**Covering system at 70 mm depth**

Distribution board's protective panel installation depth

70 mm



With cables connected to the top cable terminal EBC000

Fuse switch disconnectors EBC000 are manufactured in two versions depending on type of cable terminal

- With bottom cable terminal

- With top cable terminal



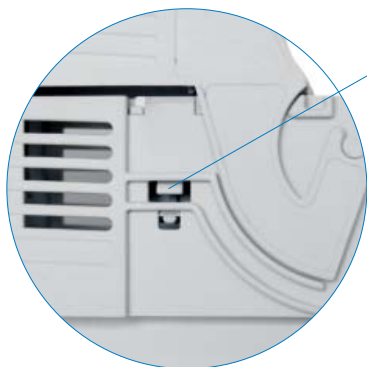With cables connected to the bottom cable terminal EBC000

# Compact EBC000 Horizontal fuse switch disconnector - Installation details*

Fuse switch disconnector EBC000 suitable for busbar systems has a special cavity.

Cavity for
busbar
system's
support

It is possible to install microswitch indicating position open/close fuse switch disconnectors.

Slot to insert wires
connected to
microswitch

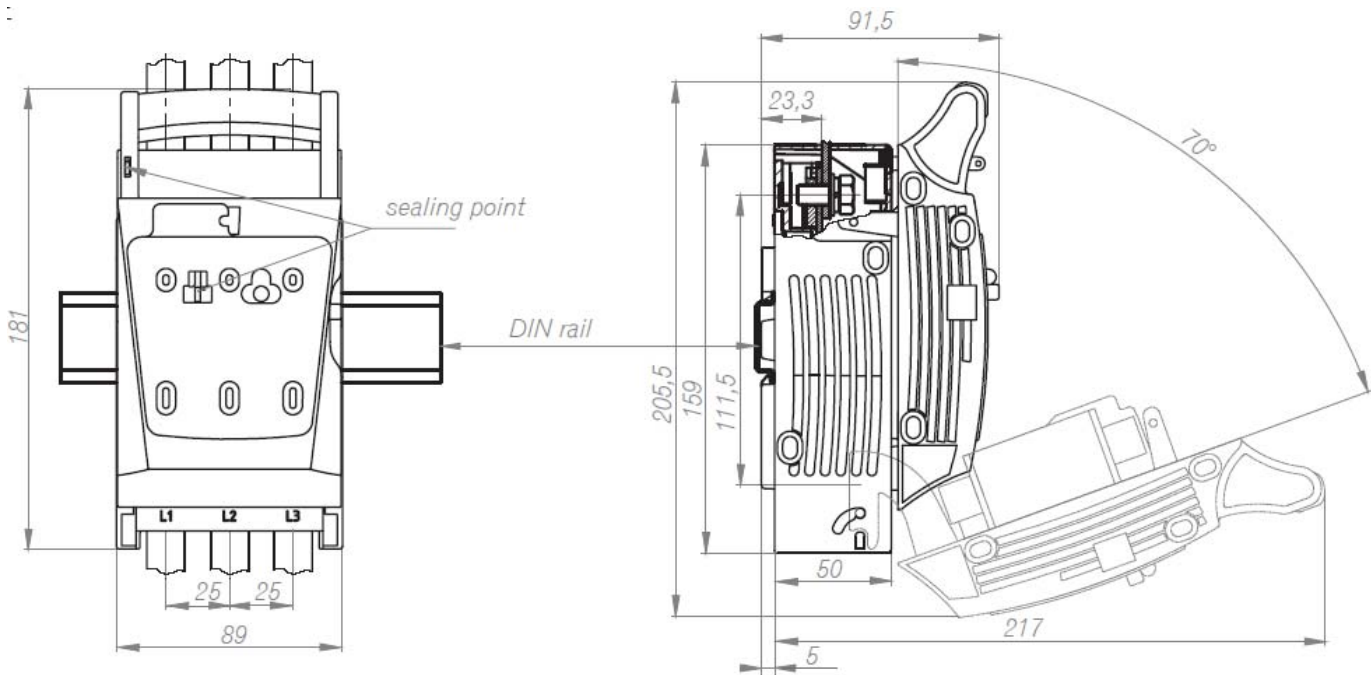Fuse switch disconnector EBC000
for mounting on double DIN-Rail

EBC000
mounting on plate

# EBH Horizontal Fuse switch disconnector - Outline drawings (mm)

**EBH000 Mounting plate installation, S-Bridge clamps and M Screws**



sealing point

DIN rail

181

91,5

23,3

70°

205,5

159

111,5

50

5

217

25    25

89

**EBH000 Mounting plate installation, S-Bridge clamps and M Screws with lengthened terminal shrouds**



91,5

194

190

3

47

L1    L2    L3