



CHS Controls AB



Florettgatan 33 SE-254 67 Helsingborg, Sweden Tel +46 42 38 61 00, Fax +46 42 38 61 29 chs@chscontrols.se www.chscontrols.se Eaton is the leading source of fusible circuit protection solutions in the global marketplace. Eaton's Bussmann series products are approved for use around the world and meet agency requirements and international standards: IEC, VDE, DIN, UL, CSA, BS and others.

The headquarters for Eaton's Bussmann series product line is located in Burton-on-the-Wolds, Leicestershire (UK) and is part of Eaton's Industrial Control and Protection EMEA division.

Eaton manufactures over 50,000 Bussmann series part numbers, covering extensive fusible circuit protection solutions for a wide range of applications: residential, industrial, motor protection, power conversion and distribution.

Eaton has been a leading exponent in the design, development and manufacture of fuse links and their associated accessories for more than 100 years and has supplied fuse links to more than 90 countries worldwide.

Eaton's team of specialist Engineers and Field Applications Engineers plays a leading role in international standardisation of fuse links offering comprehensive advice on selection and applications.

With a continual commitment to meet our customers' needs with innovative high quality products with ISO 9001 'approval systems', Eaton is the supplier of choice for circuit protection solutions.

Eaton offers a wide range of Bussmann series fuse rails and switch disconnectors.

Their compact dimensions and enhanced safety make them suitable for varied applications. They are available up to 1600 A in horizontal and up to 630 A in vertical format, suitable for mounting NH fuselinks. They comply to IEC 60947-1 & IEC 60947-3.

The vertical fuse switch disconnectors (EBV00 - EBV3) are available in 3 pole versions, and depending on application, are rated from 160 A to 630 A; size 4 1250 A available on request. Versatility of the product is enhanced by having the option to reverse - top/bottom cable terminal connection. The body of the switch is made of V0 flame retardant materials. IP30 degree of protection is provided against any contact from the front. The contacts are silver plated offering low watt loss. Current transformers and ammeters are available as accessories.

The vertical fuse rails (EBF000-EBF3) are available in 3 pole version with variations in output clamps and rated at 160, 250, 400 and 630 A.

A comprehensive range of NH fuse bases suitable for industrial application up to 690 V a.c..

Typical Applications for the vertical fuse switch disconnectors and rails:

- · Transformer substations
- Distribution boards
- · Feeder pillars
- · Cable distribution cabinets

The horizontal fuse switch disconnectors offers a comprehensive choice of ratings and sizes (EBH000 – 100 A to 630 A) with direct connection to aluminium and copper cables and wide range of cable terminations. Installation can be via a mounting plate or directly onto a busbar system with hooked clamps. The body of the switch is made of V0 flame retardant materials. The contacts are silver plated offering low watt loss.

Typical Applications:

- Motor Control Centres
- Distribution Boards
- · Cable Distribution cabinets

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EBF

Vertical fuse rail

- Self extinguishing thermoplastics with flame retardant
- Touch protection IP20 with fuse links shrouds

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General information

Eaton's Bussmann series NH vertical fuse rails are specifically designed to be used with NH fuse links. All energised metal parts are fully protected against accidental contact. They are intended for direct installation on horizontal or vertical busbar systems.

Applications

EBF Vertical fuse rails are designed for the distribution of electricity and protection against short circuits and overloads in three phase systems with maximum operating voltage of 690 V. They are intended for direct installation on horizontal or vertical busbar system. Due to their modern and compact design installing is easy and saves space in substations and distribution boards.

The EBF vertical fuse rails are designed to suit various market requirements and comply to IEC 60269-1 and 60269-2.

Sizes

EBF vertical fuse rails are available in following sizes:

- 00 (160 A)
- 2 (400 A)
- 3 (630 A)

Construction

Plastic parts of EBF vertical fuse rails are made of fibre glass strengthened, thermoplastic polyamides.

Silver plated contacts provide low power loss.

All energised metal parts are fully protected against accidental touch.

Removal of the fuse link provides clearly noticeable, large isolating gap in the circuit.

Flexibility to terminate circular or sector-shaped busbar conductors for V or 2V terminals. Conductors with lugs can be terminated with screw terminals.

Touch protection IP 20 with fuse link shrouds for sizes 2 and 3 fuse rails.

Mounting

Sizes 00, 2 and 3 are designed for installation on 185 mm busbar system.

EBF00/100 mm fuse rails are designed for installation on 100 mm busbar system installation. They can be installed on 185 mm busbar system by using an adaptor.

Fuse rails width

- size 00 50 mm
- size 2, 3 100 mm,

Operating conditions

- To be installed in a room free of any dust, aggressive or explosive gases
- Altitude up to 2000 meters above sea level
- Outdoor in cabinets with protection degree > IP 34
- Ambient temperature from -25 °C to +55 °C but in case of use of disconnectors in temperature from +41 °C to +45 °C current value I_s, should be reduced by 5 % and within temperature range of +46 °C to +55 °C current value I_s, should be reduced by 10 %
- Relative humidity of the air should not be higher than 50 % at temperature of +40 °C

Technical data

Description	EBF00 / 100 mm	EBF00 / 185 mm	EBF2	EBF3
Size	00	00	2	3
Rated thermal current I _{th} =I _n	160 A	160 A	400 A	630 A
Rated voltage U _n	690 V a.c.	690 V a.c.	690 V a.c.	690 V a.c.
Rated insulation voltage U _i	1000 V a.c.	1000 V a.c.	1000 V a.c.	1000 V a.c.
Rated frequency	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz
Rated power dissipation	12 W	12 W	45 W	60 W
Rated short-circuit withstand current	100 kA	100 kA	100 kA	100 kA
Mechanical durability (number of cycles)	100	100	100	100
Weight (without terminals)	0,75 kg	2 kg	4,50 kg	5 kg
IP degree of protection (IP)	00	00	20*	20*
Compatible NH Fuse link body size	00	00	1, 2	3

^{*} with fuse link shrouds

Catalogue number structure

Vertical fuse switch disconnector	NH Fuse link size	Mounting type	Poles	Terminal clamps details	Lateral busbar terminal
EBF	00	2 = 100 mm busbar system	30 = Three-pole	M1 = Screw terminals with M10 Screws	-L = Left side
	2	,		S8 = Screw terminals with M8 Screws	- R = Right side
	3	3 = 185 mm busbar system		V0 = V-terminals without V-clamps	
				V1 = V-terminals with V-clamps	
				W1 = 2-V Terminals with double V-clamps	

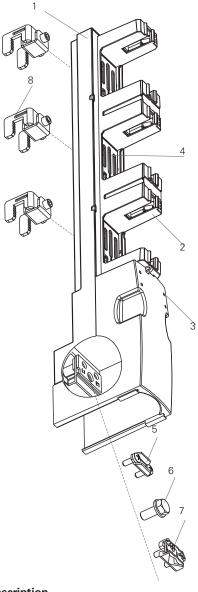
Example: EBF00330S8

Catalogue number **EBF00330S8** represents a vertical fuse rail, suitable for NH Fuse links size **00**, for 185 mm busbar system **3**, with 3 poles **30**, with screw terminals and M8 screws **S8**.

Ordering code information	Type designation	
Product type	EBF	
NH Fuse links size	00	
Mounting type	3	
Number of poles	30	
Terminal clamps	St	8
Complete part numbers	EBF 00 3 30 S8	8

EBF00 Vertical fuse rails, 100 mm busbar system

For 100 mm busbar system



Description

- 1 Main base
- 2 protective contact cover
- 3 Terminal shroud
- 4 Busbar terminals access covers
- 5 S-bridge clamp
- 6 M8 screw
- 7 V-shape clamp for sector-shaped conductor
- 8 Hooked clamp



EBF00/100 mm EBF00/100 mm-V

EBF00 Vertical fuse rail, size 00, 160 A, 690 V a.c., 100 mm busbar system

EBF00 Technical data

	EBF00/100 mm
Size	00
Rated thermal current I _{th} =I _n	160 A
Rated voltage U _n	690 V a.c.
Rated insulation voltage U _i	1000 V a.c.
Rated frequency	50-60 Hz
Rated power dissipation	12 W
Rated short-circuit withstand current	100 kA
Mechanical durability (number of cycles)	100
IP degree of protection (IP)	00
Compatible NH Fuse link body size	00
Accessories see page 17	



EBF00 / 100 mm

EBF00 - Catalogue numbers

100 mm Busba	r system	Weight
EBF00230S8	Cable terminals: bridge terminals with bridge clamps (S) 4-70 mm², screw terminals with M8 screws	1,0 kg
EBF00230V1	Cable terminals: V-terminals with V-clamps 25-120SW	1,1 kg
EBF00230V0	Cable terminals: V-terminals, without V-clamps	1,0 kg

EBF00 - Terminal clamps details

Description				
Clamp	S-bridge clamp 2 x M5 x 25	M8 screw*	V- clamp 25-120 SW	HM 10-120

Outline drawing				
Cross-section	4 - 70 mm ²	Conductor with lug terminal	re 16 mm² - 95 mm² se 25 mm² - 120 mm²	re 10 mm² - 70 mm² se 25 mm² - 120 mm²
of conductors	7 70 11111	max 185 mm ²	rm 8 16 mm² - 95 mm² sm 8 25 mm² - 120 mm²	rm 😻 10 mm² - 70 mm² sm 🐠 25 mm² - 95 mm²
Tightening torque	3 Nm**	12 Nm**	20 Nm**	15 Nm**

For stranded conductors using cable ferrules is recommended

Recommend using Eaton V-terminals only. Minimum tightening torque (M8 screw) for screws fixing fuse switch disconnector to busbar system –12 Nm, recommended tightening torque for screws and nuts with property class 8.8 – 21 Nm

^{*)} Busbar of maximum width of 20 mm and maximum thickness of 5 mm can be fixed to M-type screw terminals.

^{**)} Using torque wrench is recommended

^{***)} Fuse switch disconnectors with V-terminals are equipped with steel V-clamp HM 10-120 on request

EBF00 Vertical fuse rail, size 00, 160 A, 690 V a.c., 185 mm busbar system

EBF00 - Technical data

Description	EBF00
Size	00
Rated thermal current $I_{th}=I_{n}$	160 A
Rated voltage U _n	690 V a.c.
Rated insulation voltage U _i	1000 V a.c.
Rated frequency	50-60 Hz
Rated power dissipation	12 W
Rated short-circuit withstand current	100 kA
Mechanical durability (number of cycles)	100
IP degree of protection (IP)	00
Compatible NH fuse link body size	00
Accessories see page 17	



EBF00 / 185 mm

EBF00 - Catalogue numbers

185 mm busbar s	ystem	Weight
EBF00330S8	Cable terminals: bridge terminals with bridge clamps (S) 4-70 mm², screw terminals with M8 screws	2 kg
EBF00330V1	Cable terminals: V-terminals with V-clamps 25-120SW	2.1 kg
EBF00330V0	Cable terminals: V-terminals, without V-clamps	2 kg

EBF00 - Terminal clamps details

Description	EBF00			
Clamp	S-bridge clamp 2 x M5 x 25	M8 screw*	V- clamp 25-120 SW	HM 10-120

Outline drawing				
Cross-section of conductors	4 - 70 mm²	Conductor with lug terminal max 185 mm ²	re 16 mm² - 95 mm² se 25 mm² - 120 mm² rm 16 mm² - 95 mm² sm 25 mm² - 120 mm²	re ● 10 mm² - 70 mm² se ● 25 mm² - 120 mm² rm ● 10 mm² - 70 mm² sm ● 25 mm² - 95 mm²
Tightening torque	3 Nm**	12 Nm**	20 Nm**	15 Nm**

For stranded conductors using cable ferrules is recommended

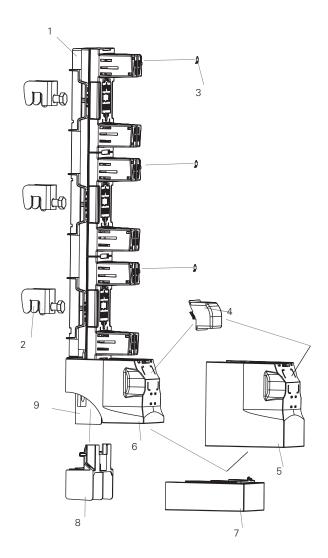
Recommend using Eaton V-terminals only. Minimum tightening torque (M8 screw) for screws fixing fuse switch disconnector to busbar system –12 Nm, recommended tightening torque for screws and nuts with property class 8.8 – 21 Nm

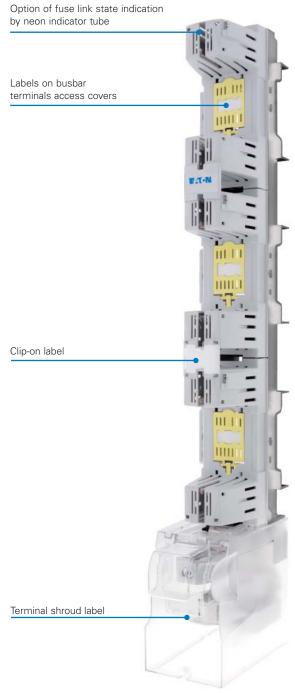
^{*)} Busbar of maximum width of 20 mm and maximum thickness of 5 mm can be fixed to M-type screw terminals.

^{**)} Using torque wrench is recommended

^{***)} Fuse switch disconnectors with V-terminals are equipped with steel V-clamp HM 10-120 on request

Vertical fuse rail, EBF2 size 2, 400 A and EBF3 size 3, 630 A, 690 V a.c., 185 mm busbar system





Description

- 1 Main base
- 2 Hooked clamp for installation on busbar system
- 3 Terminal shroud for fuse switch disconnector with double V-clamps (2 x 240 $\,\text{mm}^2\text{)}$
- 4 Terminal shroud (long)
- 5 Terminal shroud (short)
- 6 Bottom adjusting shroud
- 7 Cable terminal protective cover
- 8 Protective busbar barrier

EBF2 Vertical fuse rail, size 2, 400 A, 690 V a.c., 185 mm busbar system

Fuse rail designed for operation with NH1 and NH2 fuse links

EBF2 - Technical data

Parameters	EBF2
Size	2
Rated thermal current $I_{th}=I_n$	400 A
Rated voltage U _n	690 V a.c.
Rated insulation voltage U _i	1000 V a.c.
Rated frequency	50-60 Hz
Rated power dissipation	45 W
Rated short-circuit withstand current	100 kA
Mechanical durability (number of cycles)	100
IP degree of protection (IP)	20*
Compatible NH Fuse link body size	1,2
Accessories see page 18	

^{*} With fuse link shrouds





EBF2 with fuse link shrouds

EBF2 - Catalogue numbers

185 mm busba	Weight	
EBF2330V1	Cable terminals: V-terminals with V-clamps (35-240 mm²)	3,2 kg
EBF2330M1	Cable terminals: screw terminals with pressed nuts M10 (M10 screw)	3,1 kg
EBF2330W1	Cable terminals: 2V-terminals with double V-clamps (2 x 50- 240 mm²)	3,8 kg

EBF2 - Terminal clamps details

Description	EBF2 V-clamps		EBF2 Double V-clamp	EBF2 M10 screw		
Clamp	V-clamp 35-300SW-B		V-clamp HS 2/35-240-C	M10 screw (pressed nut)*		
Outline drawing						
	V-clamp for direct fixing	of conductor with busbar	end with cross-section of:			
Cross-section of conductors	35 - 185 mm² 🛞	35 - 240 mm²	35 - 185 mm² 🛞	35 - 240 mm²		
	35 - 240 mm ²	35 - 300 mm ²	35 - 240 mm ²	35 - 300 mm ²		
Tightening torque	30 Nm		40 Nm	32 Nm		

^{*}For stranded conductors using cable ferrules is recommended

Busbar of maximum width of 40 mm and maximum thickness of 8 mm can be fixed to M-type screw terminals when protective busbar barrier between phases is installed.

Recommend using Eaton V-terminals only. Minimum tightening torque (M12 screw) for screws fixing fuse switch disconnector to busbar system – 32 Nm, recommended tightening torque for screws and nuts with property class 8.8 – 56 Nm

EBF3 Vertical fuse rail, size 3, 630 A, 690 V a.c., 185 mm Busbar system

EBF3 - Technical data

Parameters	EBF3
Size	3
Rated thermal current $I_{th}=I_n$	630 A
Rated voltage U _n	690 V a.c.
Rated insulation voltage U _i	1000 V a.c.
Rated frequency	50-60 Hz
Rated power dissipation	60 W
Rated short-circuit withstand current	100 kA
Mechanical durability (number of cycles)	100
IP degree of protection (IP)	20*
Compatible NH Fuse link body size	3
Accessories see page 18	

^{*}With fuse link shrouds





EBF3 with fuse link shrouds

EBF3 - Catalogue numbers

185 mm busba	Weight	
EBF3330V1	Cable terminals: V-terminals with V-clamps (70-300 SW)	4,0 kg
EBF3330M1	Cable terminals: screw terminals with pressed nuts M10 (M10 screw)	4,1 kg
EBF3330W1	Cable terminals: 2V-terminals with double V-clamps (2 x 50- 240 mm²)	4,8 kg

EBF3 - Terminal clamps details

Description	EBF3 V-clamps		EBF3 Double V-clar	EBF3 M10 screw			
Clamp	V-clamp 35-300SW-B		V-clamp HS 2/35-240-	С	M10 screw (pressed nut)*		
Outline drawing							
	V-clamp for direct fixing	of conductor with busbar	end with cross-section o	f:			
Cross-section of conductors	35 - 185 mm² 🛞	35 - 240 mm ²	35 - 185 mm² 🛞	35 - 240 mm ²			
	35 - 240 mm ²	35 - 300 mm ²	35 - 240 mm²	35 - 300 mm ²			
Tightening torque	30 Nm		40 Nm		56 Nm		

^{*}For stranded conductors using cable ferrules is recommended

Busbar of maximum width of 40 mm and maximum thickness of 8 mm can be fixed to M-type screw terminals when protective busbar barrier between phases is installed.

Recommend using Eaton V-terminals only. Minimum tightening torque (M12 screw) for screws fixing fuse switch disconnector to busbar system – 32 Nm, recommended tightening torque for screws and nuts with property class 8.8 – 56 Nm

EBF2 and EBF3 Fuse rail, 185 mm busbar system, with lateral busbar terminal*

EBF Fuse rail with lateral busbar terminal technical data

Parameters	EBF2	EBF3
Size	2	3
Rated thermal current $I_{th} = I_n$	400 A	630 A
Rated voltage U _n	690 V a.c.	690 V a.c
Rated insulation voltage U _i	1000 V a.c.	1000 V a.c.
Rated frequency	50-60 Hz	50-60 Hz
Rated power dissipation	45 W	60 W
Rated short-circuit withstand current	100 kA	100 kA
Mechanical durability (Number of cycles)	100	100
IP degree of protection (IP)	20*	20*
Compatible NH Fuse link body size	2	3
Accessories see page 18		

^{*}With fuse link covers







EBF3 with lateral busbar terminal - Left

EBF2 and 3 - Catalogue numbers

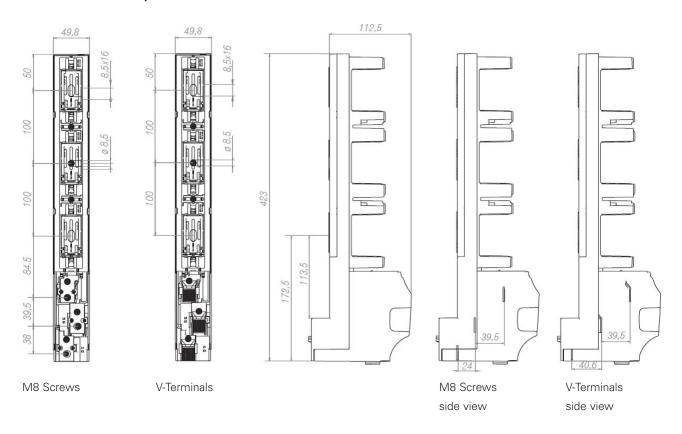
185 mm busb	Weight	
EBF2330-L	Size 2 Lateral busbar terminal - left side	2,2 kg
EBF2330-R	Size 2 Lateral busbar terminal - right side	2,2 kg
EBF3330-L	Size 3 Lateral busbar terminal - left side	3 kg
EBF3330-R	Size 3 Lateral busbar terminal - right side	3 kg

EBF (with lateral busbar terminal) - Terminal clamps details

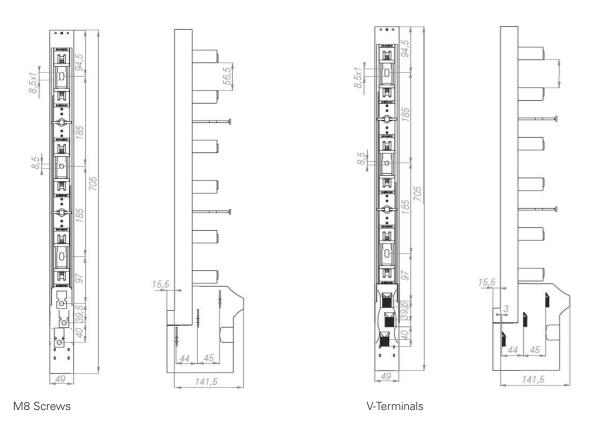
Description	Outline drawing	EBF2 Left side	EBF2 Right side	EBF3 Left side	EBF3 Right side
Clamp		M12 screw	M12 screw	M12 screw	M12 screw
Cable terminal	_	Left side	Right side	Left side	Right side
Tightening torque	— ψ	56 Nm	56 Nm	56 Nm	56 Nm

EBF Vertical fuse rails - Outline drawings (mm)

EBF00 / 100 mm busbar system



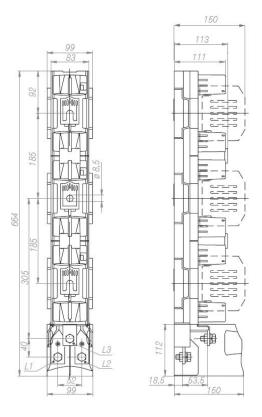
EBF00 / 185 mm busbar system



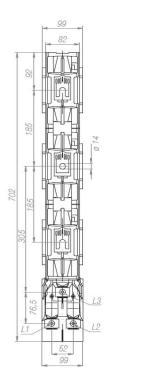
EBF Vertical fuse rails - Outline drawings (mm)

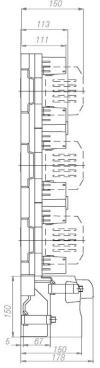
EBF2 and 3

EBF2 and 3



EBF2 and 3 With terminals 2V (2 x 240 mm²)





EBF Vertical fuse rail - Accessories

EBF00, EBF00 / 100 mm

EBFVA1 - M8 Terminal screw

M8 terminal screw, for connection of conductors with lug terminal (set - 3pcs)



EBFVA2 - Busbar shroud

Busbar shroud (polycarbonate) for busbar system 185 mm, Width 50 mm, length 562 mm, thickness 3 mm



EBFVA3 - Hooked clamps

Hooked clamps for installation of EBF on busbar system without drilled holes. (set - 3 pcs.)



EBFVA4 - Isolating pin

Isolating pin for fixing the 50 mm busbar shroud, M8 (set - 2 pcs.)



EBFVA6 - S-Bridge clamp

S-Bridge clamp – fixed with 2 x M5 screw - for connection of conductors with crosssection 4 mm² up to 70 mm² (set - 3 pcs.)



EBFVA7 - V-shape clamp

V-shape clamp - S-bridge clamp + V-shape saddle - for connection of sector-shaped conductors with cross-section 1.5 up to 70 mm² (stranded) or 95 mm² (solid) (1 set - 3 pcs.)



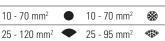
EBFVA8 - Universal earthing device

Universal earthing device for EBF00, 2, 3



EBFVA9 - V-clamp

V- clamp HM-10-120. For connection of conductor with cross-section:





EBF00 / 100 mm

EBFVA10 - Terminal shroud/adjusting shroud

Terminal shroud/adjusting shroud



EBFVA11 - Single adaptor

Single adaptor 100/185 enabling to install EBF 00/100 mm on busbar system



EBFVA12 - Double adaptor

Double adaptor 100/185 enabling to install two EBF 00/100mm units on busbar system 185 mm



EBFVA13 - Insulating busbar barrier

Insulating busbar barrier for EBF 00/100



EBF00

EBFVA14 - Double distance adaptor

Double distance adaptor 185/185. Designed for two EBF 00 units. It adjusts front line of EBV 00 to that of EBV 1, 2, 3 (set – 3 pcs.)



EBFVA15 - Single distance adaptor

Single distance adaptor 185/185. It adjusts front line of EBF 00 to that of EBV 1, 2, 3 (set - 3 pcs.)



EBFVA16 - Terminal shroud

Terminal shroud



EBF Vertical fuse rail - Accessories

EBF2, EBF3

Terminal screw

For connection of conductors with lug terminal (1 set - 3pcs)



EBFVA17 - M10 terminal screw for EBF2

EBFVA18 - M12 terminal screw for EBF3

EBFVA19 - V-clamp

V-clamp. For connection of conductor with cross-section:



35 - 120 mm² 35 - 150 mm²





EBFVA20 - V-clamp

V-clamp. For connection of conductor with cross-section:





EBFVA21 - Double V-clamp

Double V-clamp. For connection of two conductors with cross-section:





EBFVA22 - V-terminal lug

V-terminal lug for V-clamp for connection of conductors with crosssection 35 mm2 up to 240 mm2



EBFVA23 - V-clamp HS

V-clamp HS (steel) for connection of two conductors with cross-section





EBFVA24 - Hooked clamps

Hooked clamps for installation of EBF, 2, 3 on busbar system without drilled holes (set - 3 pcs.)



EBF2, EBF3

EBFVA25 - Busbar shroud

Busbar shroud (polycarbonate) for busbar system 185 mm, Width 100 mm, length 707 mm, thickness 2 mm



EBFVA26 - Isolating pin

Isolating pin for fixing the 100mm busbar shroud, M12 (set $-2~{\rm pcs.}$)



EBFVA27 - Terminal shroud

Terminal shroud



EBFVA28 - Extended terminal shroud

Extended terminal shroud. For use with terminal shroud EBFVA27



EBFVA29 - Terminal protective cover

Terminal protective cover



EBFVA31 - Fuse link shroud

Fuse link shroud



EBFVA8 - Universal earthing device

Universal earthing device for EBV 00, 2, 3



FATON FIRM CONTROL TO STATE ST

EBH

Horizontal fuse switch disconnectors

Designed for distribution of electricity and protection of electrical equipment against short-circuits and overloads with industrial fuse links.

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Applications

EBH Horizontal fuse switch disconnectors are designed for distribution of electricity and protection of electrical equipment against short-circuits and overloads with industrial fuse links. They are conforming to IEC 60947-1 and IEC 60947-3 standards. They are intended for installation in low voltage distribution boards, cable and metering cabinets.

Sizes

EBH Horizontal fuse switch disconnectors are available in the following sizes:

- 000 (160 A)
- 00 (160 A)
- 1 (250 A)
- 2 (400 A)
- 3 (630 A)

Construction

Thermoplastic parts of EBH Horizontal fuse switch disconnectors are made of fibre glass strengthened polyamide with halogen free flame retardant added and have the highest possible flammability class – V0.

EBH Horizontal fuse switch disconnectors consist of following parts:

- Three pole main base with spring-loaded contacts designed for connection of circular or sector-shaped conductors; conductors with lug terminals or busbar
- Removable cover with fuse links,

Arc chutes with steel deionization plates over top contacts,

Silver plated contacts providing low power loss.

The making and breaking operations has to be done with adequate force since these are manually operated switches

Flexibility to terminate circular or sector-shaped busbar conductors for V-clamps or double V-clamps terminals. Conductors with lugs can be terminated with screw terminals

Voltage test can be performed through test holes in fuse link cover

Monitoring of the fuse link status possible with electronic module

Mounting

On mounting plate

EBH00, EBH1, EBH2, EBH3

On double DIN-Rail

EBH00

On busbar systems:

- 60 mm busbar system
- EBH00, EBH1, EBH2 installation on busbar system with hooked clamps
- 100 mm busbar system
- EBH2, EBH1 installation on busbar system with hooked clamps

Operating conditions

- To be installed in a room free of any dust, aggressive or explosive gases
- Altitude up to 2000 meters above sea level
- Outdoor in cabinets with protection degree > IP 34
- Ambient temperature from -25 °C to +55 °C
- Relative humidity of the air should not be higher than 50% at temperature of +40°

Technical data

	EBH000			ЕВН00 ЕВН1			EBH1 Busbar system installation		EBH2		ЕВН3							
Rated thermal current I _{th} 1)	160 A			160 A		250 A		250 A		400 A		630 A						
Rated voltage U _n	690 V a	a.c.				690 V a.d).		690 V a.c.		690 V a.	C.		690 V a.d	D.		690 V a.c.	
Utilisation category	AC-23B	AC-22B	AC-22B	AC-21B	DC-21B	AC-23B	DC-21B	DC-22B	AC-23B	DC-22B	AC-23B	AC-22B	DC-22B ²⁾	AC-23B	DC-21B	DC-22B	AC-22B	DC-21B
Rated switching current I _e	100 A	100 A	160 A	160 A	160 A	160 A	160 A	160 A	250 A	250 A	250 A	250 A	250 A	400 A	400 A	400 A	630 A	630 A
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.	690 V a.c.	440 V a.c.	250 V a.c.	690 V a.c.	250 V a.c.	400 V a.c.	690 V a.c.	250 V a.c.	690 V a.c.	440 V a.c.	220 V a.c.	690 V a.c.	250 V a.c.
Rated short circuit	400 4	/400	1.000	, ,	15 kA	80 kA (690 V a.c.)	20 kA		80 kA (690 V a.c.)	25 kA	80 kA (69	90 V a.c.)	25 kA	80 kA (690 V a.c.)		20 kA	100 KA	
making current	100 KA	(400 ar	1d 690 V	a.c.)	(400 & 690 V a.c.)	100 kA (400 V a.c.)	(400 & 69	10 V a.c.)	100 kA (400 V a.c.)	(400 V & 690 V a.c.)	100 kA (400 V a.c.)	(400 & 690 V a.c.)	100 kA (400 V a.c.)	(400 & 690 V a.c.)	(400 .& 690 V a.c.)		
Rated short circuit	05.14				15 kA	80 kA (690 V a.c.)	20 kA		80 kA (690 V a.c.)		80 kA (69	90 V a.c.)	25 kA	80 kA (69	90 V a.c.)		25 kA	
withstand current	25 KA (400 and 69	90 V a.c.)		(400 & 690 V a.c.)	100 kA (400 & 690 V a.c.)		100 kA (400 V a.c.)	(400 & 690 V a.c.)	100 kA (400 & 690 V a.c.)		100 kA (400 V a.c.)		(400 & 690 V a.c.)				
Rated insulation voltage U _i	1000 V	,				1000 V		1000 V	1	1000 V		1000 V		1000 V				
Rated power dissipation	12 W					12 W		32 W	2 W 32 W			45 W			60 W			
Rated impulse withstand voltage U _{imp.}	8 kV					8 kV		8 kV	8 kV	8 kV			12 kV			12 kV		
Rated frequency	50-60 I	Hz			-	50-60 Hz	-		50-60 Hz	-	50-60 H	Z	-	50-60 Hz	-		50-60 Hz	-
Mechanical durability (number of cycles)	2000					1600		1600		1600		1000			1000			
Electrical durability (number of cycles)	300		200		200 2		200		200			200						
IP degree of protection (IP)	20			20 30		30		30		20			20					
Weight	~0.6 / ~0.9 kg			~0.7 / ~0.9 kg ~2		~2 kg ~2,5 kg		~2,5 kg		~3 / ~4.5 kg			~5 / ~5.9 kg					
Compatible NH Fuse link body size	000					00		1		1		2		3				

¹⁾ I_{th} - thermal current of fuse switch disconnector without external enclosure, installed outdoors (In case of the installation of fuse switch disconnectors in enclosures then load factor should be considered)
²⁾ for 60 mm busbar system

EBH2 switch disconnector with solid links can be used for 400 A

- Rated short-time withstand current 1s $I_{cw} = 13 \text{ kA}$
- Rated short-circuit making capacity $I_{cm} = 8 \text{ kA}$

Catalogue number structure

Horizontal fuse switch disconnector	NH Fuse link size	Mounting type	Poles	Switching type	Connection type	Terminal clamps details	Installation
EBH	000	0 = Mounting plate installation	3 = 3-pole	S = Each phase switching	B = Bottom cable terminal connection	F = Busbar ends	-D = installation on DIN-Rail
	00	1 = 60 mm	o poic	separately	with lug terminals	M2 = Screw terminals with M12 screws	
	1	busbar system		T = Simultaneous 3	T = Top cable terminal	M8 = Screw terminals with M8 scews	L = Lengthened terminal shrouds
	2	2 = 100 mm busbar system		phase switching	connection with lug terminals	M1 = Conductors with lug terminals with M10 screws	- E, -TE, -BE Electronic fuse monitoring module,
	3					MV = Screw terminals / V-clamps	see details page 41
						S5 = S-Bridge clamps with M5 screws	
						S8 = Screw terminals with M8 Screws	
						SV = S-bridge clamps / V-clamps	
						V1 = V-shape clamps	
						VS= V clamps / S-bridge clamps	
						VM = V clamps / Screw terminals	
						W1 = Double V-Clamps	

Miscellaneous parts: EBC000: Compact fuse switch disconnector size 000 see details pages 25-27

Example: EBH00O3TS5

Catalogue number **EBH00O3TS5** represents a horizontal fuse switch disconnector, suitable for NH Fuse link size **00**, mounting plate installation **O**, 3-pole **3**, simultaneous 3 phase switching **T**, with S-bridge clamps, M5 screws **S5**.

Type designation **Ordering code information** EBH Product type 00 NH Fuse link size Mounting type 0 Number of poles 3 Simultaneous or separate switching Terminal clamps S5 EBH 00 Complete part numbers 0 3 Τ S5

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

EBH000 - Catalogue numbers

Installation on mount	ing 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
FDUOD	S-bridge clamp 2 x M5 x 16		Cu/Al conductor 1,5 - 35 mm ²	maximum busbar width 15 mm	3 Nm*	
EBH000	M8 x 16 screw		conductor with lug terminal up to 70 mm ²	maximum busbar width 15 mm	10 Nm*	50

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



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
-	50*/35** kA (690 V a.c.)	00.1.4
Rated short circuit making current	50 kA (500 V a.c.)	- 20 kA - (400, 500 & 690 V a.c.)
	80 kA (400 V a.c.)	(400, 500 & 050 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 mountin	nstallation on mounting plate	
EBC00003TF	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****

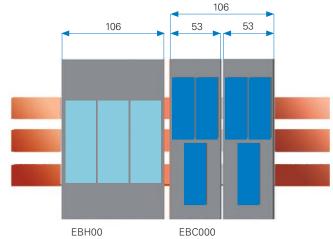
For stranded conductors using cable ferrules is recommended

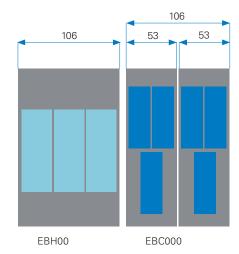
^{****}Using of torque wrench is recommended

^{*} EBC Available upon request. Please contact Eaton's application engineering department for further details: buletechnical@eaton.com

Save space in the switchboard with EBC000*

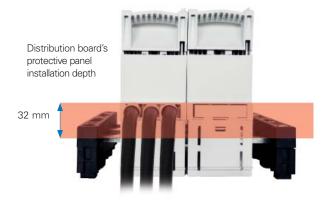
EBC000 -S (EBC000) width dimensions is equal to half the width of EBH00 -S (EBH00), so we can install more disconnectors (keeping a certain width of the switchboard) to protect individual circuits in the switchboard.



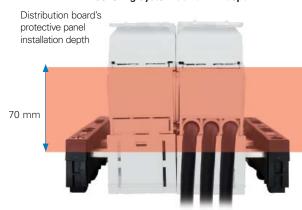


Fuse switch disconnectors EBC000 are designed for installation of distribution board's protective panels at two depths: covering system at 70 mm depth: covering system at 32 mm and 70 mm depth

Covering system at 32 mm depth



Covering system at 70 mm depth



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

*EBC Available upon request. Please contact Eaton's application engineering department for further details: buletechnical@eaton.com

Compact EBC000 Horizontal fuse switch disconnector - Installation details*

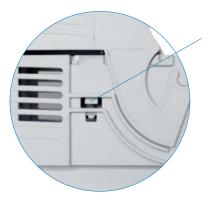
Fuse switch disconnector EBC000 suitable for busbar systems has a special cavity.



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

*EBC Available upon request. Please contact Eaton's application engineering department for further details: buletechnical@eaton.com

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EBH00 Horizontal fuse switch disconnectors, size 00, 160 A, 690 V a.c.

EBH00 - Technical data

Description	EBH00					
Rated thermal current I _{th}		160 A				
Rated voltage Un	690 V a.c.					
Utilisation category		AC-23B	DC-22B	DC-21B		
Rated switching voltage $U_{\rm e}$	Rated switching voltage U		250 V a.c.	440 V a.c.		
Rated switching current I _e		160 A	160 A	160 A		
Rated short circuit making	690 V a.c.	80 kA (690 V a.c.)	20 kA (400 8	. COO \/ a a \		
current	400 V a.c.	100 kA (400 V a.c.)	20 KA (400 8	1 090 V a.c.)		
Rated short circuit withstand	690 V a.c.	80 kA (690 V a.c.)	20 kA (400 & 690 V a.c.)			
current	400 V a.c.	100 kA (400 V a.c.)	20 KA (400 8	1 090 V d.C.)		
Rated insulation voltage U _i		1000 V				
Rated impulse withstand voltage	e U _{imp}	8 kA				
Rated power dissipation	'	12 W				
Rated frequency		50-60 Hz	-			
Mechanical durability (number o	f cycles)	1600				
Electrical durability (number of cycles)		200				
IP degree of protection		IP 20				
Compatible NH Fuse link body size	00					
Accessories see page 52	Accessories see page 52					



EBH00

EBH00 - Catalogue numbers

Installation on moun	Installation on mounting plate	
EBH0003TS5	For connection of round conductors	S-bridge clamps
EBH0003TM8	For connection of conductors with lug terminals	M8 screws
EBH0003TV1	For connection of sector-shaped conductors	V-shape clamps
EBH0003TS5L	For connection of round conductors, lengthened terminal shrouds	S-bridge clamps
EBH0003TM8L	For connection of conductors with lug terminals, lengthened terminal shrouds	M8 screws
EBH0003TV1L	For connection of sector-shaped conductors, lengthened terminal shrouds	V -shape clamps

Double DIN-Rail options available, please contact buletechnical@eaton.com for further details-

EBH00 Horizontal fuse switch disconnectors, size 00, 160 A, 690 V a.c.

EBH00 - Terminal clamps details

Description	Clamp	Drawing of clamps	Cross-section of conductors	Cu Busbar	Tightening torque	Dimensions and spacing of holes for installation of EBH 00 on mounting plate
EBH00	S-bridge clamp 2 x M5 x 16		Cu/Al conductor 4 - 50 mm ²	Maximum busbar width 20 mm	3 Nm*	5 70
	M8 x 16 screw		conductor with lug terminal up to 70 mm ²	Maximum busbar width 20 mm	10 Nm*	
	V-shape clamp 2 x M5 x 20		4 mm² - 70 mm² 4 mm² - 95 mm²	Maximum busbar width 20 mm	3 Nm*	66 3

For stranded conductors using cable ferrules is recommended



EBH00



Fuse switch disconnector EBH00 with additional terminal shrouds



Fuse switch disconnector EBH00 for mounting on double DIN-Rail*

^{*}Using of torque wrench is recommended

^{*}please contact buletechnical@eaton.com for further details.

EBH00 Horizontal fuse switch disconnectors, size 00, 160 A, 690 V a.c., 60 mm busbar system

System of protective covers provides touch protection

Possible installation of distribution board's protective panel at depth of 32 mm or 70 mm

Built-in hooked clamps provide fast installation onto busbar system

Top/bottom cable terminal

EBH00 - Technical data

Description	EBH0013T		
Rated thermal current I _{th}	160 A		
Rated voltage U _n	690 V a.c.		
Utilisation category	AC-23B	AC-22B	DC-22B
Rated switching voltage U _e	400 V a.c.	690 V a.c.	250 V a.c.
Rated switching current I _e	160 A	160 A	160 A
Rated short circuit making current	100 kA		20 kA
Rated short circuit withstand current	100 kA		20 kA
Rated insulation voltage U _i	1000 V a.c.		
Rated impulse withstand voltage U _{imp}	8 kV		
Rated power dissipation	12 W		
Rated frequency	50-60 Hz		-
Mechanical durability (Number of cycles)	1600		
Electrical durability (Number of cycles)	200		
IP degree of protection	IP 20		
Compatible NH Fuse link body size	00		
Accessories see page 52			



EBH00 60 mm busbar system

EBH00 - Catalogue numbers

60 mm busbar syste	60 mm busbar system installation		
EBH0013TBM8	Cable terminal – top, for connection of conductors with lug terminals	M8 screws	
EBH0013TTM8	Cable terminal – bottom, for connection of conductors with lug terminals	M8 screws	
EBH0013TBF	Cable terminal-top, for connection of conductors with busbar ends	Frame clamps	
EBH0013TTF	Cable terminal-bottom, for connection of conductors with busbar ends	Frame clamps	

EBH00 - Terminal clamps details

Description	Clamp	Drawing of clamp	Cross-section of conductors	Cu busbar	Tightening torque
EBH00-M8	M8 x 16 screw		Conductor with lug terminal up to 70 mm ²	Maximum busbar width 20 mm	10 Nm*
EBH00-F	Frame clamps		4 - 95 mm²	-	6 Nm* 3 Nm*

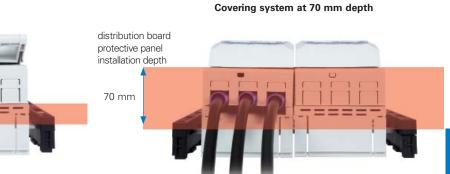
For stranded conductors using cable ferrules is recommended

^{*}Using of torque wrench is recommended

EBH00 Horizontal fuse switch disconnectors, Installation details

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

Covering system at 32 mm depth



Fuse switch disconnectors EBH00 are manufactured in two versions depending on type of cable terminal:

- EBH00 with bottom cable terminal
- EBH00 with top cable terminal

distribution board

protective panel installation depth

32 mm



With cables connected to the bottom cable terminal EBH00

Fuse switch disconnector EBH00 suitable for busbar system has special cavity in its main base



Cavity for busbar system's support



EBH00 Fuse switch disconnectors - Installation details

Cable terminals:

M8 screw terminal EBH00



Frame clamp EBH00



It is possible to install microswitch indicating position of fuse switch disconnectors EBH00



Slot to insert wires connected to microswitch



EBH00 - Features and benefits

New features of cable terminals

- Connection of one or two sector-shaped conductors with cross-section up to 120 mm²
- Connection of two round conductors with busbar ends and cross-section up to 70 mm²

Space saving

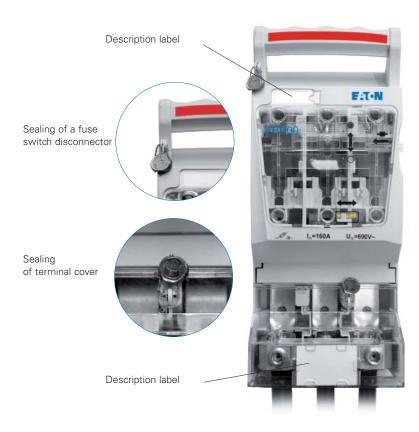
· Possible reduction of external width of cable distribution cabinet to width of a fuse switch disconnector

Efficient current circuit

 No screw or riveted connection between contact and cable terminal (uniform design of current circuit ensures lower power loss and operating temperature)

Safety

- Fuse cover and cable terminal cover sealing
- · Extension of covering of conductors connected to cable terminals by installation of additional covers





Extension of covering of conductors connected to cable terminals by installation of additional covers



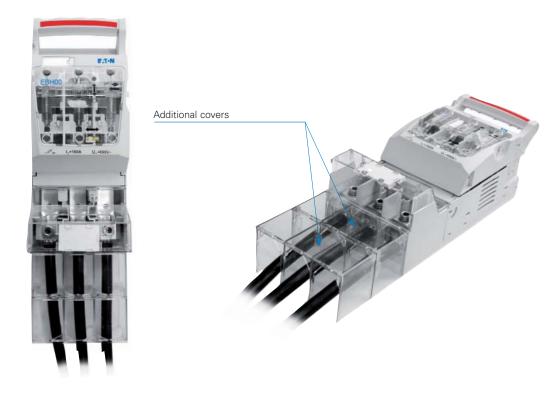
Possible connection of two sector-shaped conductors with cross-section up to 120 mm² each with double V-clamp



Flexibility to connect two round conductors with cross-section up to 70 mm² with Prism clamp

EBH00 - Extended covering of conductors connected to cable terminal

For extension of covering of conductors connected to cable terminals, for example: to fully cover cables in cable distribution cabinet, any required number of additional covers could be installed. Cover length - 50 mm.



EBH00 with V-clamp for connection of sector-shaped conductors with cross-section up to 120 mm²

EBH1 Horizontal fuse switch disconnectors, size 1, 250 A, 690 V a.c.

EBH1 - Technical data

Description	EBH103 Mounting plate ins	tallation		nd EBH123 d 100 mm bu	sbar system
Rated thermal current $I_{th} = I_{n}$	250 A		250 A		
Rated voltage U_n	690 V		690 V		
Utilisation category	AC-23B	DC-22B	AC-23B	AC-22B	DC-22B*
Rated switching voltage U _e	690 V a.c.	250 V a.c.	400 V a.c.	690 V a.c.	250* V a.c.
Rated switching current I _e	250 A	250 A	250 A		
Rated short circuit making current	80 kA (690 V a.c.)		80 kA (690		25* kA
Rated short circuit withstand current	100 kA (400 V a.c.)	(400 & 690 V a.c.	_{c.)} 100 kA (400 V a.c.)		(400 & 690 V a.c.)
Rated insulation voltage U _i	1000 V		1000 V		
Rated impulse withstand voltage $\mathbf{U}_{\mathrm{imp}}$	8 kV		8 kV		
Rated power dissipation	32 W		32W		
Rated frequency	50-60 Hz	-	50-60 Hz		-
Mechanical durability (Number of cycles)	1600		1600		
Electrical durability (Number of cycles)	200		200		
IP degree of protection (IP)	30		30		
Compatible NH Fuse link body size	1		1		
Accessories see page 52					



EBH1 for installation on mounting plate

EBH1 - Catalogue numbers

Installation on	mounting plate	Cable terminals
EBH103TS8	For connection of round conductors	S-bridge clamps
EBH103TM1	For connection of conductors with lug terminals	Screws
EBH103TV1	For connection of sector-shaped conductors	V-clamps
EBH103TVS	For connection of round conductors, top terminals - V-terminals, bottom terminals - S-bridge terminals	V- clamps / S-bridge clamps
EBH103TVM	For connection of round conductors, top terminals - V-terminals, bottom terminals - screw terminals	V- clamps /screws
EBH103TSV	For connection of round conductors, top terminals - S-bridge terminals, bottom terminals - V-terminals	S-bridge clamps / V- clamps
EBH103TMV	For connection of round conductors, top terminals - screw terminals, bottom terminals - V-terminals	screw terminals / V- clamps
60 mm busbar	system	Cable terminals
EBH113TTS8	Top cable terminals, for connection of round conductors	S-bridge clamps
EBH113TBS8	Bottom cable terminals, for connection of round conductors	S-bridge clamps
EBH113TBM1	Bottom cable terminals, for connection of conductors with lug terminals	Screws
EBH113TTV1	Top cable terminals, for connection of sector-shaped conductors	V- clamps
EBH113TBV1	Bottom cable terminals, for connection of sector-shaped conductors	V- clamps
100 mm busbar system		Cable terminals
EBH123TTS8	Top cable terminals, for connection of round conductors	S-bridge clamps
EBH123TBS8	Bottom cable terminals, for connection of round conductors	S-bridge clamps
EBH123TTM1	Top cable terminals, for connection of conductors with lug terminals	Screws
EBH123TBM1	Bottom cable terminals, for connection of conductors with lug terminals	Screws
EBH123TTV1	Top cable terminals, for connection of sector-shaped conductors	V-clamps
EBH123TBV1	Bottom cable terminals, for connection of sector-shaped conductors	V-clamps

^{*} For 60 mm busbar system

EBH1 Horizontal fuse switch disconnectors, size 1, 250 A, 690 V a.c.

EBH1 - Terminal clamps details

Description	EBH1	EBH1 M10 screw	EBH 1 V-clamps
Clamp	S-bridge clamp 2xM8x30	M10x25 screw	V-clamp HS 35-300-C
Picture of a clamp			
Drawing of a clamp			
Cross-section of conductors	Cu/Al conductor 35 - 120 mm ²	Conductor with lug terminal up to 120 mm ²	V-clamp for direct fixing of conductor with busbar end with cross-section of: 35 - 185 mm ² 35 - 240 mm ² 35 - 240 mm ² 35 - 300 mm ²
Cu busbar	maximum busbar width 35 mm		
Tightening torque	10 Nm*	20 Nm*	40 Nm*
Dimensions and spacing of holes for installation of EBH1 on mounting plate	5=	6 94	00

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

EBH1 Horizontal fuse switch disconnectors, size 1 installation details



EBH1 for installation on mounting plate



EBH1 for installation on busbar system



EBH1 for installation on mounting plate, with double terminal shrouds



EBH1
for installation on mounting plate, picture of fuse switch disconnector without fuse links cover and terminal shrouds, top cable terminal - M screws, bottom cable terminal - V-clamps, (EBH1 bottom cable terminal - M screws, top cable terminal - V-clamps)

EBH2 Horizontal fuse switch disconnector, size 2, 400 A, 690 V a.c.

EBH2 - Technical data

Description		EBH2				
Rated thermal current $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$		400 A				
Rated voltage U _n		690 V a.c.	690 V a.c.			
Utilisation category		AC-23B	C-23B DC-21B			
Rated switching voltage U _e		690 V a.c.	440 V a.c.	220 V a.c.		
Rated switching current I _e		400 A	400 A	400 A		
Rated short circuit making current	690 V a.c.	80 kA	15 kA	20 kA		
nated Short circuit making current	400 V a.c.	100 kA	10 KA	ZU KA		
Rated short circuit withstand current	690 V a.c.	80 kA	15 kA	20 kA		
nateu short circuit withstand current	400 V a.c.	100 kA	10 KA	ZU KA		
Rated insulation voltage U _i		1000 V a.c.				
Rated impulse withstand voltage $\mathbf{U}_{\mathrm{imp}}$		12 kV				
Rated power dissipation		45 W				
Rated frequency		50-60 Hz	-			
Mechanical durability (Number of cycles)		100				
Electrical durability (Number of cycles)		200				
IP degree of protection		IP20				
Compatible NH Fuse link body size		2				
Accessories see page 52						



EBH2 for installation on mounting plate

EBH2 - Catalogue numbers

Installation on mounting	j plate	Cable terminals
EBH203TS8	For connection of round condutors	S-bridge clamps
EBH203TM1	For connection of sector-shaped condutors	V-clamps
EBH203TV1	For connection of sector-shaped conductors	Double V- clamps
EBH203TW1	For connection of conductors with lug terminals	M10 screws
60 mm busbar system		Cable terminals
EBH213TBM1	Bottom cable terminals, for connection of conductors with lug terminals	M10 screws
EBH213TTM1	Top cable terminals, for connection of conductors with lug terminals	M10 screws
EBH213TBV1	Bottom cable terminals, for connection of sector-shaped conductors	V-clamps
EBH213TTV1	Top cable terminals, for connection of sector-shaped conductors	V-clamps
EBH213TBW1	Bottom cable terminals, for connection of sector-shaped conductors	Double V- clamps
EBH213TTW1	Top cable terminals, for connection of sector-shaped conductors	Double V- clamps
100 mm busbar system		Cable terminals
EBH223TBM1	Bottom cable terminals, for connection of conductors with lug terminals	M10 screws
EBH223TTM1	Top cable terminals, for connection of conductors with lug terminals	M10 screws
EBH223TBV1	Bottom cable terminals, for connection of sector-shaped conductors	V-clamps
EBH223TTV1	Top cable terminals, for connection of sector-shaped conductors	V-clamps
EBH223TBW1	Bottom cable terminals, for connection of sector-shaped conductors	Double V-clamps
EBH223TTW1	Top cable terminals, for connection of sector-shaped conductors	Double V-clamps

EBH2 Horizontal fuse switch disconnector, size 2, 400 A, 690 V a.c.

EBH2 - Terminal clamps details

Description	Clamp	Drawing of clamps	Cross-section of conductors	Cu busbar	Tightening torque	Dimensions and spacing of holes for installation of EBH 2 on mounting plate
	S-bridge clamp 2 x M8 x 30		Cu/Al conductor 50÷185 mm ²		10 Nm*	
	M10 x 30 screw		conductor with lug terminal up to 240 mm ²		20 Nm*	Ø,13
EBH 2	V- clamp of conductor with busbar end with cross-section: 35 - 300SW-B 35 - 300SW-B 35 - 240 mm ² 35 - 240 mm ² 35 - 300 mm ² Maximum busbar width 35 mm	30 Nm*	130			
	Double V- clamp HS2/ 35-240-C		V-clamp for direct fixing of conductor with busbar end with cross-section: 35 - 185 mm ² 35 - 240 mm ² 35 - 240 mm ² 35 - 300 mm ²		40 Nm*	

For stranded conductors using cable ferrules is recommended

^{*}using of torque wrench is recommended



EBH2 for installation on mounting plate, cable terminals: V-clamps



EBH2 for installation on mounting plate, cable terminals: double V-clamps



EBH2*
(top cable terminal: M10 screws)
EBH2 -SD* (bottom cable terminal:
M10 screws) for installation on busbar
systems



EBH2 (top cable terminal: double V-clamp EBH2 (bottom cable terminal: doubleV-clamp) for installation on busbar systems



EBH2 (top cable terminal: V-clamp)
EBH2 (bottom cable terminal: V-clamp) for installation on busbar systems

EBH3 Horizontal fuse switch disconnector, size 3, 630 A, 690 V a.c.

EBH3 - Technical data

Description	EBH 3	
Rated thermal current $I_{th} = I_n$	630 A	
Rated voltage U _n	690 V a.c.	
Utilisation category	AC-22B	DC-21B
Rated switching voltage $U_{\rm e}$	690 V a.c.	250 V a.c.
Rated switching current I _e	630 A	630 A
Rated short circuit making current	25 kA	
Rated short circuit withstand current	100 kA	
Rated insulation voltage U _i	1000 V a.c.	
Rated impulse withstand voltage U_{imp}	12 kV	
Rated power dissipation	60 W	
Rated frequency	50-60 Hz	
Mechanical durability (Number of cycles)	1000	
Electrical durability (Number of cycles)	200	
IP degree of protection	IP 20	
Compatible NH Fuse link body size	3	
Accessories see page 52		



EBH3 for installation on mounting plate

EBH3 - Catalogue numbers

Installation on	Cable terminal		
EBH303TS8	For connection of round conductors	S-bridge clamps	
EBH303TM2 For connection of conductors with lug terminals		M12 screws	
60 mm busbar	Cable terminal		
EBH313TM2 For installation on 60 mm busbar system, top/bottom cable terminal		M12 screws	

EBH3 - Terminal clamps details

Version	Clamp	Drawing of clamp	Cross-section of conductors	Cu busbar	Tightening torque	Dimensions and spacing of holes for installation of EBH 3 on mounting plate	
FDU 2	S-bridge clamp 2 x M8 x 35		Cu/Al conductor 50 - 185 mm ²	Maximum busbar	10 Nm*	8.5	
	M12 x 30 screw		conductor with lug terminal up to 240 mm ²	width 35 mm	20 Nm*	150	

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

Horizontal fuse switch disconnector electronic fuse monitoring module*

L1, L2, L3 diodes are on - all three phases are supplied, all fuse links are operational.

→ Relay contacts: [21..22] - closed; [13..14] - opened

L1, L2, L3 diodes are flashing - all three phases are supplied, fuse links operated

→ Relay contacts: [21..22] - opened; [13..14] - closed

L1, L2, L3 diodes are off - two or more phases are not supplied or fuse links are removed.

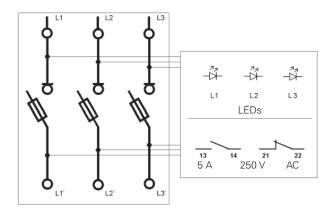
→ Relay contacts: [21..22] - opened; [13..14] - closed

Parameters

Operating voltage AC - 400 - 690 V, 40 - 60 Hz;

Relay parameters 5 A, 250 V~

CAUTION! Use only with fuse links with non-isolated gripping lugs!



Fuse switch disconnector

Electronic fuse monitoring module

disconnector contact position during normal operation



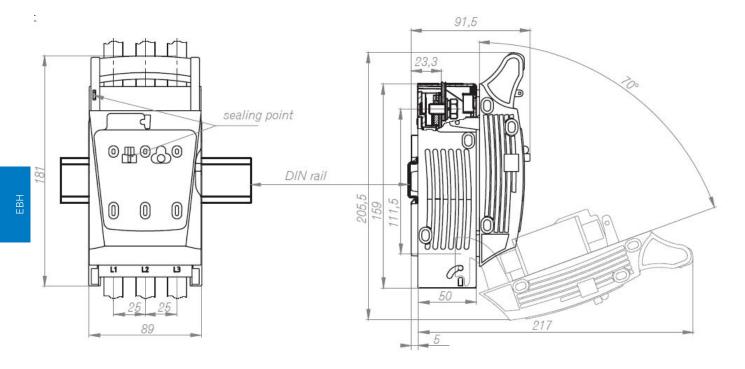
EBH00-X with electronic fuse monitoring module

Electronic fuse monitoring module, cable terminal - S-bridge clamps installation details

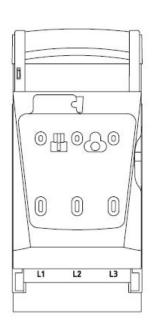
Catalogue number	Description
EBH0003TS5-TE	For installation on mounting plate, power supply connected to top cable terminals
EBH0003TS5-BE	For installation on mounting plate, power supply connected to top bottom terminals
EBH0013TTS5-E	For installation on 60 mm busbar system, top cable terminals
EBH0013TBS5-E	For installation on 60 mm busbar system, bottom cable terminals
EBH103TS8-TE	For installation on mounting plate, power supply connected to top cable terminals
EBH103TS8-BE	For installation on mounting plate, power supply connected to top bottom terminals
EBH113TTS8-E	For installation on 60 mm busbar system, top cable terminals
EBH113TBS8-E	For installation on 60 mm busbar system, bottom cable terminals
EBH123TTS8-E	For installation on 100 mm busbar system, top cable terminals
EBH123TBS8-E	For installation on 100 mm busbar system, bottom cable terminals
EBH203TS8-TE	For installation on mounting plate, power supply connected to top cable terminals
EBH203TS8-BE	For installation on mounting plate, power supply connected to top bottom terminals
EBH213TTS8-E	For installation on 60 mm busbar system, top cable terminals
EBH213TBS8-E	For installation on 60 mm busbar system, bottom cable terminals
EBH223TTS8-E	For installation on 100 mm busbar system, top cable terminals
EBH223TBS8-E	For installation on 100 mm busbar system, bottom cable terminals

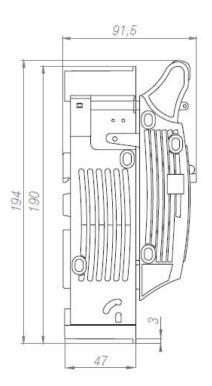
* Available upon request. Please contact Eaton's application engineering department for further details: buletechnical@eaton.com

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

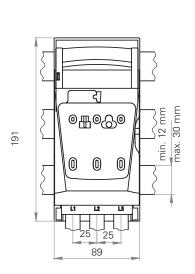


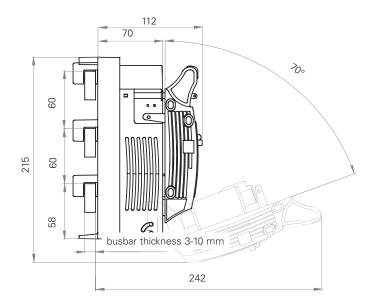
EBH000 Mounting plate installation, S-Bridge clamps and M Screws with lengthened terminal shrouds



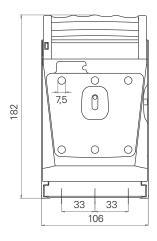


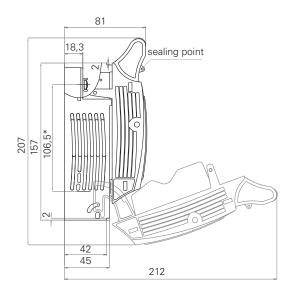
EBH000 - 60 mm busbar system busbar installation





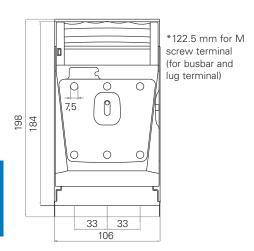
EBH00 Mounting plate installation

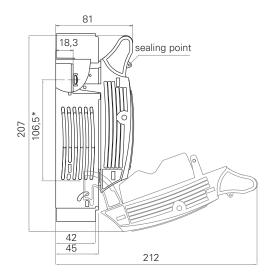




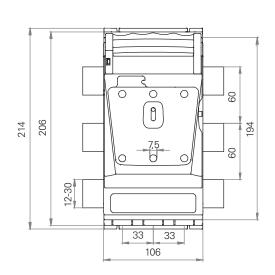
*122.5 mm for M screw terminal (for busbar and lug terminal)

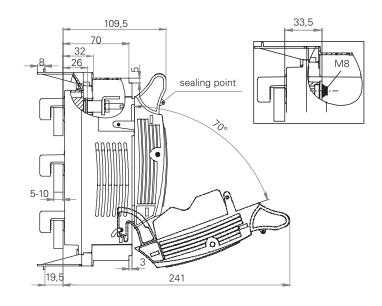
EBH00 Mounting plate installation with lengthened terminal shroud



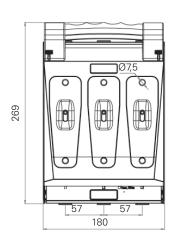


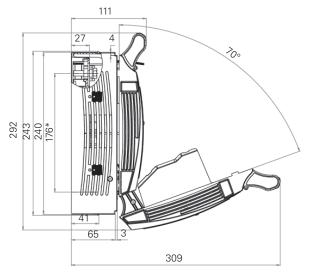
EBH003T Installation on 60 mm busbar





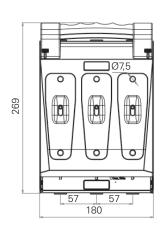
EBH1 Mounting plate installation S Bridge and M8 Screws

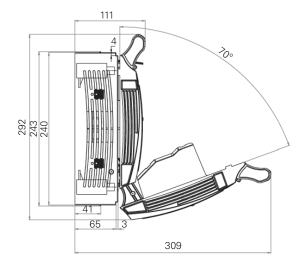




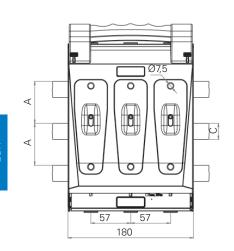
*197 mm for M type clamp

EBH1 Mounting plate installation V-clamps



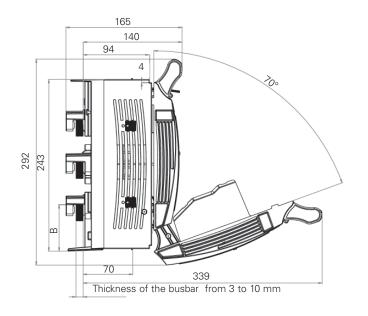


EBH1 60 mm and 100 mm busbar installation

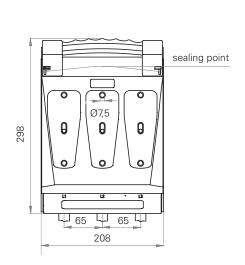


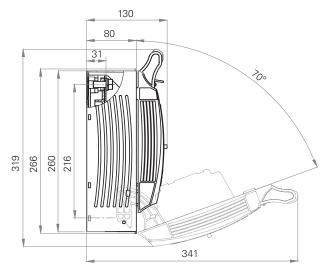
A	В	С
60 mm	66 mm	max. 30 mm
100 mm	27 - 66 mm	max. 60 mm

M,S,V types of clamps

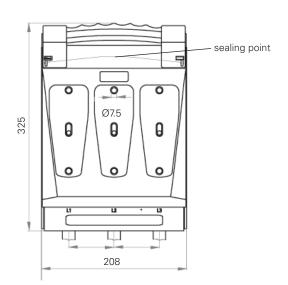


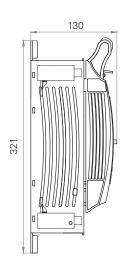
EBH2 Mounting plate installation S-Bridge clamps and M Screws



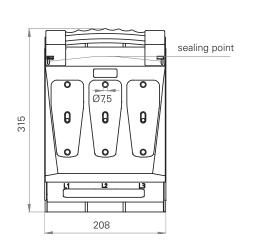


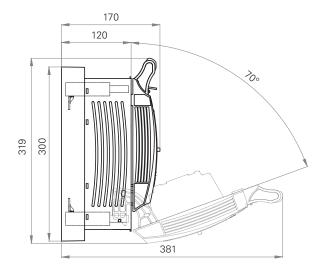
EBH2 Mounting plate installation , V-clamps



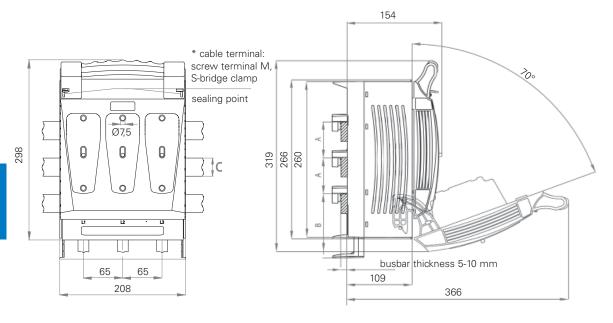


EBH2 Mounting plate installation, double V-clamps

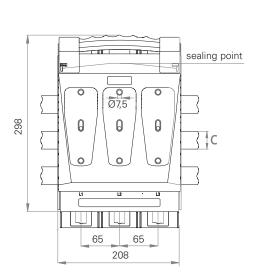


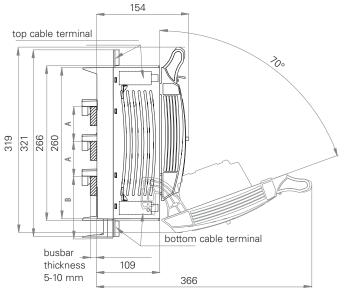


EBH2 Installation on 60 mm and 100 mm busbar, M Screws



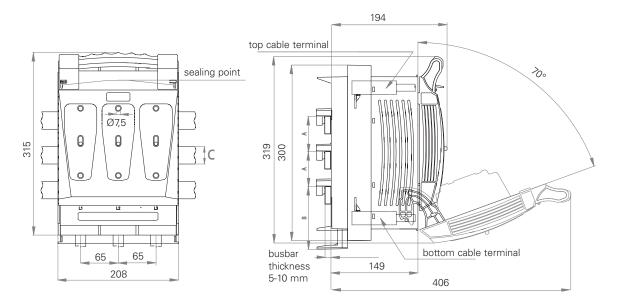
EBH2 Installation on 60 mm and 100 mm busbar, V-clamps





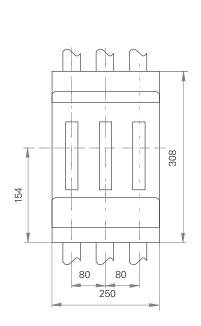
A	В	С
60 mm	75 mm	max. 30 mm
100 mm	35 - 67 mm	max. 60 mm

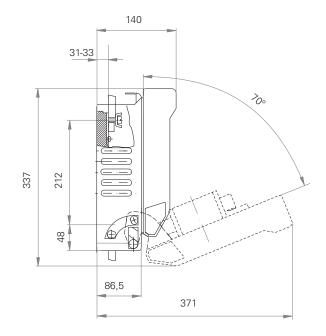
EBH2 Installation on 60 mm and 100 mm busbar, double V-clamps



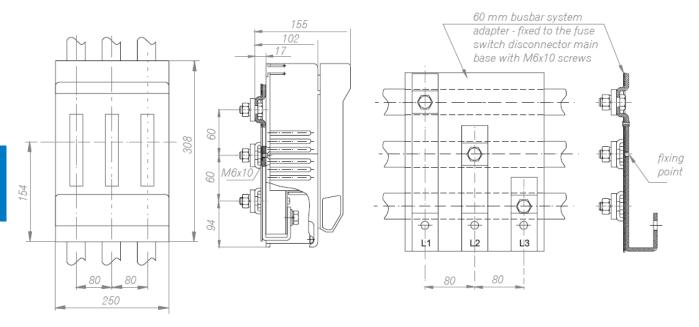
A	В	С
60 mm	75 mm	max. 30 mm
100 mm	35 - 67 mm	max. 60 mm

EBH3 Mounting plate installation, S bridge and M Screws

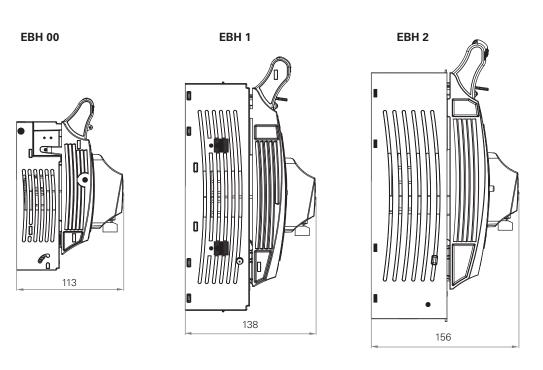




EBH3 60 mm busbar installation, M Screws



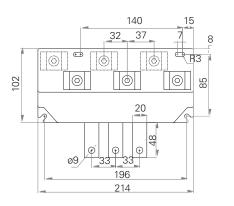
EBH with electronic modules width - mm

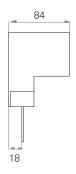


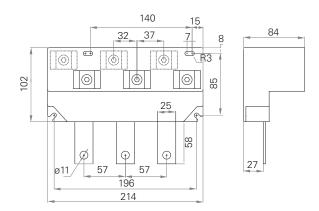
Terminal adaptors

EBH 00

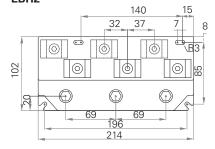
EBH1

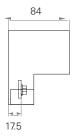






EBH2





EBH Horizontal fuse switch disconnector - Accessories

EBH000

EBHA1 - Feeding bridge

Feeding bridge EBH 000 25-95 mm² (1 set - 3 pcs.) for connection of conductor of cross-section



25 - 70 mm² 🛞 25 - 95 mm²



EBHA2 - Auxiliary contacts

Auxiliary contacts (microswitch) AC-15 U 230 V~ I 2,5 A DC-13 U 200 V~ I 0,3 A



EBHA3 - Additional terminal shroud

Additional terminal shroud "O"extends shroud length of 25 mm



EBH00

EBHA4 - Feeding bridge

Feeding bridge clamp EBH 00 25 - 95 mm² (1 set - 3 pcs.) for connection of conductor of cross-section



25 - 70 mm² 🛞 25 - 95 mm²



EBHA5 - Clamp

Clamp for EBH 00 2 x 25 mm² 1 x 16 mm²



EBHA6 - Clamp

Clamp for EBH 00 4 x 10 mm²



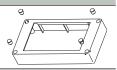
EBHA7 - Auxiliary contacts (microswitch)

Auxiliary contacts (microswitch) AC-15 U 230 V~ I 2.5 A DC-13 U 230 V~ I 0.3 A



EBHA8 - Full cover (matt)

Full cover matt



EBHA9 - Terminal adaptor

Terminal adaptor + 3 x clamp + terminal shroud





EBH 1

EBHA10 - Terminal adaptor

Terminal adaptor EBH1 3 x V-clamp + terminal shroud





EBH 1 and EBH2

EBHA11 - Auxiliary contacts microswitch

Auxiliary contacts microswitch AC-15 U 230 V ~ I = 2.5 A DC-13 U 230 V ~ I = 0.3 A



EBHA12 - Terminal adaptor

Terminal adaptor EBH2 3 x V-Clamp + terminal shroud





ЕВН3

EBHA13 - Auxiliary contacts

Auxiliary contacts (microswitch) AC-15 $U_e 110/230/400 \text{ V} \sim I_e = 1 \text{ A}$ DC-13 U_e 48/110/220 V~ I_e = 0.5 A screw terminals conductors cross-section: - solid - 1 x 0.5 = 1 mm² - stranded - 1 x 0.5 = 0.75 mm²



52



EBV

Vertical fuse switch disconnector

- Fibre glass strenghtened, self extinguishing thermoplastics of V0 flammability class
- Double clearance between open contacts
- Arc chutes with deionisation plates over every contact
- Reversible top/bottom cable terminal connection
- Wide range of accessories

EBV Introduction	54-55
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EBV Catalogue numbers structure	56
EBV00 100 mm busbar system	57-58
EBV00 185 mm busbar system	59-60
EBV2 185 mm busbar system	61-62
EBV3 185 mm busbar system	61 and 63
EBV2 and EBV 3 Fuse disconnector with lateral busbar terminal	64
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Applications

EBV vertical fuse switch disconnectors are designed for distribution of electricity and protection against short circuits and overloads in three phase. They are designed to be used with NH fuse links and are meant for direct installation on horizontal or vertical busbar systems.

EBV fuse switch disconnectors conform to IEC 60947-1- and IEC 60947-3 standards. EBV fuse switch disconnectors are designed for applications which require reliability and safety like low voltage distribution boards installed in transformer substations, industrial low voltage distribution boards and cable cabinets.

Removal of fuse links is simple and safe. Once the fuse links are removed, there is a large isolating distance clearly visible. Mounting and cable termination is simple and can be accomplished by one person only using insulated equipment.

EBV fuse switch disconnectors are designed to perform the following functions:

- Protection.
- · Energy distribution,
- Earthing,
- Switching,
- Touch protection.

Sizes

EBV fuse switch disconnectors are designed for installation onto 185 mm busbar system. They are available in following sizes (according to rated current):

- 00 (160 A)
- 2 (400 A)
- 3 (630 A and 1250 A upon request)

EBV size 00 are manufactured in two versions depending on busbar system:

- **EBV00/100mm** fuse switch disconnector (160 A) for installation on 100 mm busbar system. Installation on 185 mm busbar system is possible by using an adaptor.
- EBV00 fuse switch disconnector (160 A) for installation on 185 mm busbar system.

Construction

EBV fuse switch disconnectors are manufactured in two versions:

- One-pole switching (separately each pole)
- Three-pole switching (three poles simultaneously)

They are manually operated, consequently making and breaking is dependant on the speed of operation.

Main base of fuse switch disconnector EBV is made of halogen free, fibre glass strengthened, self extinguishing, thermoset polyester of V0 flammability class. Other plastic parts of fuse switch disconnectors EBV are made of halogen free fibre glass strengthened, thermoplastic polyamides.

Silver plated contacts provide low power loss. Depending on clamp type, EBV fuse switch disconnectors enable user to connect circular or sector-shaped conductors with busbar ends or conductors with lug terminals. Arc chute with deionization plates are installed over each contact ensuring better arc extinction and exhaust of arc plasma. Protection degree of IP30 from the front is provided.

Additional accessories enable to install EBV fuse switch disconnectors of different sizes on common busbar systems. All sizes of EBV fuse switch disconnectors are provided complete with clamps (i.e. screws, V-terminals, 2V-terminals) and shrouds for cable terminals.

The making and breaking operations has to be done with adequate force since these are manually operated switches

Parallel moving, double contact system.

Fuse switch disconnectors width: 50, 100 and 200 mm.

Suitable for top cable terminal connection.

Flexibility to terminate circular or sector-shaped busbar conductors for V or 2V terminals. Conductors with lugs can be terminated with screw terminals.

Voltage test can be performed through test holes leading to blade contacts.

Operating conditions

- To be installed in a room free of any dust, aggressive or explosive gases
- Altitude up to 2000 meters above sea level
- Outdoor in cabinets with protection degree > IP 34
- Ambient temperature from -25°C to +55°C
- Relative humidity of the air should not be higher than 50% at temperature of +40°C

Technical data

	Detect	EDV00				
Description	Rated voltage	EBV00 100 mm	EBV00	EBV2	EBV3	EBV3-1250
Rated thermal current $I_{th}=I_n$ with fuse links		160 A	160 A	400 A	630 A	-
Rated thermal current I _{th} with solid links	-	-	-	600 A	750 A	1250 A
Rated voltage Un		690 V a.c.	690 V a.c.	690 V a.c.	690 V a.c.	400 V a.c.
	690 V a.c.	AC-22B	AC-22B	AC-22B	AC-21B	-
Utilisation category	500 V a.c.	-	-	-	AC-22B	-
	400 V a.c.	AC-23B	AC-23B	AC-23B	AC-23B	AC-22B
Rated switching current I _e	-	160 A	160 A	400 A	630 A	1250 A
	690 V a.c.	25 kA	80 kA	100 kA	80 kA	-
Rated short-circuit making current	500 V a.c.	25 kA	-	100 kA	100 kA	-
	400 V a.c.	25 kA	100 kA	100 kA	100 kA	-
	690 V a.c.	100 kA	80 kA	100 kA	80 kA	-
Rated short-circuit withstand current	500 V a.c.	100 kA	-	100 kA	100 kA	-
	400 V a.c.	100 kA	100 kA	100 kA	100 kA	-
Rated insulation voltage U _i		1000	1000	1000	1000	1000
Rated impulse withstand voltage U _{imp} .		8 kV	12 kV	12 kV	12 kV	12 kV
Rated short time withstand current I _{cw}		-	-	12 ¹ /15 ² kA	14 ¹)/16 ² kA	15/20 ³ kA
Rated frequency	_	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz
Mechanical durability (Number of cycles)	-	1600	1600	1000	1000	600
Electrical durability (Number of cycles)		200	200	200	200	100
IP degree of protection (IP)		30	20	30	30	30
Compatible NH Fuse links body size		00	00	1, 2	3	solid links

¹⁾ For disconnectors 1-phase disconnected

 $^{^{\}scriptscriptstyle 2)}$ For disconnectors 3-phase disconnected

³⁾ With mechanical lock

Catalogue numbers structure

Vertical fuse switch disconnector	NH Fuse link size	Mounting type	Poles	Switching type	Terminal clamps details	Electronic module or Lateral busbar
EBV	00	11 = 185 mm busbar with heightened rails	1 = one- pole	S = Each phase switching separately	M1 = Screw terminals with pressed nuts	-E = Electronic fuse monitoring module
	2	23 = 100 mm busbar	3 = three-	T = Simultaneous 3	M2 = Screw terminals with pressed nuts M12	-L = Lateral busbar terminal - Left
	3	system	pole	phase switching	S8 = Screw terminals with M8 Screws	side
		33 = 185 mm busbar			V0 = V-terminals without V-clamps	- R = Lateral busbar terminal - Right
		system			V1 = V-terminals with V-clamps	side
					W0 = 2-V Terminals without double V-clamps	
					W1 = 2-V Terminals with double V-clamps	

Miscellaneous part: EBV3-12150-3-2M-L and EBV3-1250-3-3M-R see details page 64

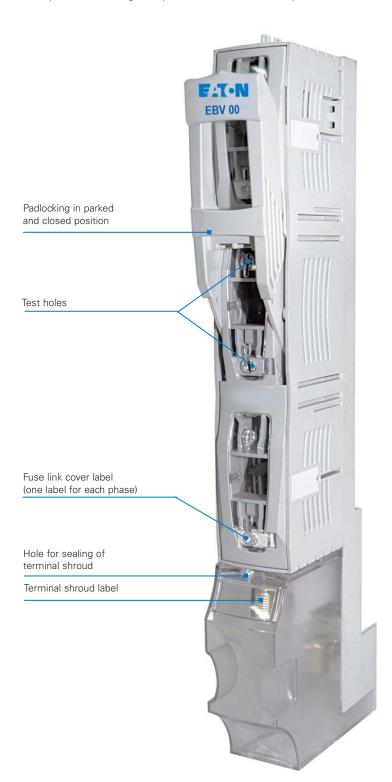
Catalogue number **EBV233SV1** represents a vertical fuse switch disconnector, for NH Fuse link size **2**, suitable for 185 mm busbar system **33**, each phase switching separately **S**, with V-terminals and V-clamps **V1**.

Example: EBV233SV1

Ordering code information	Туре	desi	gnatio	on		
Product type	EBV					
NH Fuse link size		2				
Mounting type			3			
Number of poles				3		
Simultaneous or separate switching					S	
Terminal clamps						V1
Complete part numbers	EBV	2	3	3	S	V1

EBV00 Vertical fuse switch disconnector, size 00, 160 A, 690 V, 100 mm busbar system

For installation on 100 mm busbar system
Fuse switch disconnector's width 50 mm
Three pole switching - all phases simultaneously



EBV 00/100 mm

EBV00 Vertical fuse switch disconnector, size 00, 160 A, 690 V, 100 mm busbar system

EBV00 / 100 mm busbar system - Technical data

Description	EBV00 / 100) mm
Rated thermal current $I_{th}=I_n$	160 A	
Rated voltage U _n	690 V a.c.	
Utilisation category	AC-22B	AC-23B
Rated switching voltage $U_{\rm e}$	690 V a.c.	400 V a.c.
Rated switching current I _e	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 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	00	
Accessories see page 72		



EBV00 - Catalogue numbers

100 mm busbar system		Weight
Three pole switching - al	l phases simultaneously (for installation on 100 mm busbar system)	
EBV0023TS8	cable terminals: bridge terminals with bridge clamps (S) 4-70 mm², screw terminals with M8 screws	1,3 kg
EBV0023TV1	cable terminals: V-terminals with V-clamps 25-120 SW	1,5 kg
EBV0023TV0	cable terminals: V-terminals, without V-clamps	1,3 kg

EBV00 Terminal clamps details

Description				
Clamp	S-bridge clamp 2 x M5 x 25	M8 screw*	V-clamp 25-120 SW	HM 10-120
				
Outline drawing				
Cross –section of conductors	4 - 70 mm²	Conductor with lug terminal max 185 mm ²	re ● 16 mm² - 95 mm² se ● 25 mm² - 120 mm² rm ❤ 16 mm² - 95 mm² sm ◆ 25 mm² - 120 mm²	re 10 mm² - 70 mm² se 20 mm² - 120 mm² rm 10 mm² - 70 mm² sm 10 mm² - 95 mm²
Tightening torque	3 Nm**	12 Nm**	20 Nm**	15 Nm**

For stranded conductors using cable ferrules is recommended

- *) Busbars of maximum width of 20 mm and maximum thickness of 5 mm can be fixed to M type screw terminals.
 **) using torque wrench is recommended

Recommend using Eaton V-terminals only. Minimum tightening torque (M8 screw) for screws fixing fuse switch disconnector to busbar system –12 Nm, recommended tightening torque for screws and nuts with property class $8.8-21~\mathrm{Nm}$

^{***)} fuse switch disconnectors with V-terminals are equipped with steel V-clamp HM 10-120 on request

EBV00 Vertical fuse switch disconnector, size 00, 160 A, 690 V, 185 mm busbar system

For installation on 185 mm busbar system

Fuse switch disconnector's width 50 mm

Three pole switching - all phases simultaneously - two-hand operation or one pole switching - each phase independently

EBV00 / 185 mm busbar system - Technical data

Description	EBV00 / 185 i	nm	
Rated thermal current I _{th} =I _n	160 A		
Rated voltage U _n	690 V a.c.		
Utilisation category	AC-22B	AC-23B	
Rated switching voltage U _e	690 V	400 V	
Rated switching current I _e	160 A		
Dated about aircuit making aureant	80 kA (690 V	a.c.)	
Rated short circuit making current	100 kA (400 V a.c.)		
Rated short circuit withstand current	80 kA (690 V a.c.)		
nateu short circuit withstand current	100 kA (400 V a.c.)		
Rated insulation voltage U _i	1000 V a.c.		
Rated impulse withstand voltage U _{imp.}	12 kV		
Rated frequency	50-60 Hz		
Mechanical durability (Number of cycles)	1600		
Electrical durability (Number of cycles)	200		
IP degree of protection (IP)	20		
Compatible NH Fuse link body size	00		
Accessories see page 72			





EBV 00-T

EBV00 - Catalogue numbers

185 mm busbar syster	n	Weight
Three-pole switching - 6	each phase independently	
EBV0033SS8	Cable terminals: bridge terminals with bridge clamps (S) 4-70 mm², screw terminals with M8 screws	2,6 kg
EBV0033SV1	Cable terminals: V-terminals with V-clamps 25-120 SW	2,7 kg
EBV0033SV0	Cable terminals: V-terminals, without V-clamps	2,6 kg
Three-pole switching - a	all phases simultaneously	
EBV0033TS8	Cable terminals: bridge terminals with bridge clamps (S) 4-70 mm², screw terminals with M8 screws	2,7 kg
EBV0033TV1	Cable terminals: V-terminals with V-clamps 25-120 SW	2,8 kg
EBV0033TV0	Cable terminals: V-terminals, without V-clamps	2,7 kg
EBV 00 with heighter	ned rails adjusted to front line and terminal cover of EBV 2, 3	
One-pole switching - ea	ch phase independently	
EBV0011SS8	Cable terminals: bridge terminals with bridge clamps (S) 4-70 mm², screw terminals with M8 screws	2,7 kg
EBV0011SV1	Cable terminals: V-terminals with V-clamps 25-120SW	2,8 kg
EBV0011SV0	Cable terminals: V-terminals, without V-clamps	2,7 kg
One-pole switching - all	phases simultaneously	
EBV0011TS8	Cable terminals: bridge terminals with bridge clamps (S) 4-70 mm ² . screw terminals with M8 screws	2,8 kg
EBV0011TV1	Cable terminals: V-terminals with V-clamps 25-120 SW	2,9 kg
EBV0011TV0	Cable terminals: V-terminals, without V-clamps	2,8 kg

EBV00 Vertical fuse switch disconnector, size 00, 160 A, 690 V, 185 mm busbar system

EBV00 / 185 mm busbar system - Terminal clamps details

Description				
Clamp	S-bridge clamp 2 x M5 x 25	M8 screw*	V-clamp 25-120 SW	HM 10-120

Outline drawing				
Cross–section of	4 - 70 mm ²	Conductor with lug terminal	re 16 mm² - 95 mm² se 25 mm² - 120 mm²	re 10 mm² - 70 mm² se 25 mm² - 120 mm²
conductors	7 70 11111	max 185 mm ²	rm	rm 8 10 mm² - 70 mm² sm 4 25 mm² - 95 mm²
Tightening torque	3 Nm**	12 Nm**	20 Nm**	15 Nm**

For stranded conductors using cable ferrules is recommended

- *) Busbar of maximum width of 20 mm and maximum thickness of 5 mm can be fixed to M-type screw terminals
- **) Using torque wrench is recommended
- ***) Fuse switch disconnectors with V-terminals are equipped with steel V-clamp HM 10-120 on request

Recommend using Eaton V-terminals only. Minimum tightening torque (M8 screw) for screws fixing fuse switch disconnector to busbar system – 12 Nm, recommended tightening torque for screws and nuts with property class 8.8 – 21 Nm

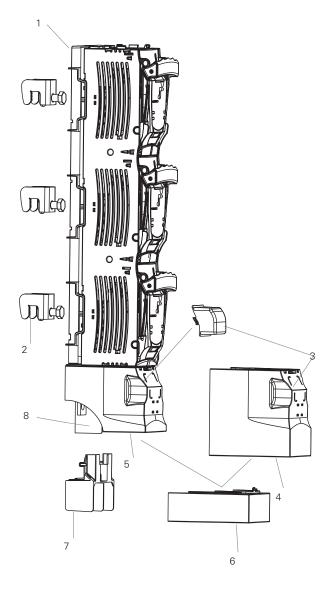


Vertical fuse switch disconnector, EBV2 size 2, 400 A and EBV3 size 3 630 A, 690 V a.c. 185 mm busbar system

For installation on 185 mm busbar system

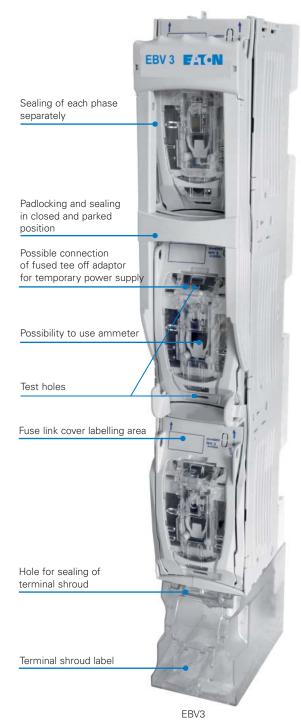
Fuse switch disconnector's width 100 mm

Three pole switching - all phases simultaneously or one pole switching - each phase independently



Description

- 1 Main base
- 2 Hooked clamp for installation on busbar system
- 3 -Terminal shroud for fuse switch disconnector with double V-clamps (2 \times 240 $\,mm^2)$
- 4 Terminal shroud (long)
- 5 Terminal shroud (short)
- 6 Bottom adjusting shroud
- 7 Cable terminal protective cover
- 8 protective busbar barrier



EBV2 Vertical fuse switch disconnector, size 2, 400 A, 690 V, 185 mm busbar system

Designed for operation with NH1 and NH2 fuse links

EBV2 / 185 mm busbar system - Technical data

Description	EBV2 / 185 mm
Rated thermal current I _{th} =I _n with fuse links	400 A
Rated thermal current I _{th} with solid links	600 A
Rated voltage U _n	690 V a.c.
Utilisation category	AC-22B AC-23B
Rated switching voltage U _e	690 V a.c. 400 V a.c.
Rated switching current I	400 A
Rated short circuit making current	100 kA
Rated short circuit withstand current	100 kA
Rated insulation voltage U _i	1000 V a.c.
Rated impulse withstand voltage U _{imp}	12 kV
Rated short time withstand current I	12 ¹ /15 ² kA
Rated frequency	50-60 Hz
Mechanical durability (number of cycles)	1000
Electrical durability (number of cycles)	200
IP degree of protection (IP)	30
Compatible NH Fuse link body size	1, 2
Accessories see page 73	

¹⁾ for disconnectors 1-phase disconnected





EBV233S

EBV233T

EBV2 - Catalogue numbers

185 mm busbar syste	Weight					
Three-pole switching - each phase independently						
EBV233SV1	Cable terminals: V-terminals with V-clamps 240 mm ²	5,8 kg				
EBV233SM1	Cable terminals: screw terminals with pressed nuts M10	5,7 kg				
EBV233SW1	Cable terminals: 2V-terminals with double V-clamps 240 mm ²	6,4 kg				
EBV233SV0	Cable terminals: V-terminals without V-clamps	5,5 kg				
EBV223SW0	Cable terminals: 2V-terminals without double V-clamps	6,9 kg				
Three-pole switching -	all phases simultaneously					
EBV233TV1	Cable terminals: V-terminals with V-clamps 240 mm ²	5,8 kg				
EBV233TM1	Cable terminals: screw terminals with pressed nuts M10	5,7 kg				
EBV233TW1	Cable terminals: 2V-terminals with double V-clamps 240 mm ²	6,4 kg				
EBV233TV0	Cable terminals: V-terminals without V-clamps	5,5 kg				
EBV233TW0	Cable terminals: 2V-terminals without double V-clamps	5,9 kg				

EBV2 - Terminal clamps details

Description	EBV 2 V-Clamps (400	A)	EBV 2 Double V	-Clamp	S	EBV 2 with M10	screw
Clamp	V-clamp		V-clamp HS			M10 screw (pressed	nut)*
Outline drawing						#	
	V-clamp for direct fixing	of conductor with busba	r end with crosssect	tion of:			
Cross-section of conductors	35 - 185 mm² 🛞	35 - 240 mm ²	35 - 185 mm²	※	35 - 240 mm ²		
	35 - 240 mm ²	35 - 300 mm ²	35 - 240 mm ²	•••	35 - 300 mm ²		
Tightening torque	30 Nm		40 Nm			32 Nm	·

For stranded conductors using cable ferrules is recommended

Recommend using Eaton V-terminals only. Minimum tightening torque (M12 screw) for screws fixing fuse switch disconnector to busbar system – 32 Nm, recommended tightening torque for screws and nuts with property class 8.8 – 56 Nm

²⁾ for disconnectors 3-phase disconnected

^{*)} Busbars of maximum width of 40 mm and maximum thickness of 8 mm can be fixed to M type screw terminals when protective busbar barrier between phases is installed.

EBV3 Vertical fuse switch disconnector, size 3, 630 A, 690 V, 185 mm busbar system

EBV3 / 185 mm busbar system - Technical data

Description	EBV3 / 185 m	m			
Rated thermal current lth=In with fuse links	630 A				
Rated thermal current Ithwith solid links	750 A				
Rated voltage Un	690 V a.c.				
Utilisation category	AC-22B	AC-23B	AC-21B		
Rated switching voltage Ue	500 V a.c.	400 V a.c.	690 V a.c.		
Rated switching current le	630 A				
Dated about aircuit making aureant	80 kA (690 V a.c.)				
Rated short circuit making current	100 kA (500 V	/ a.c.)			
Rated short circuit withstand current	100 kA				
Rated insulation voltage Ui	1000 V a.c.				
Rated impulse withstand voltage Uimp.	12 kV				
Rated short time withstand current lcw	12 ¹ /15 ² kA				
Rated frequency	50-60 Hz				
Mechanical durability (Number of cycles)	1000				
Electrical durability (Number of cycles)	200				
IP degree of protection	30 IP				
Compatible NH Fuse link body size	3				
Accessories see page 73					

¹⁾ for disconnectors 1-phase disconnected





EBV333S EBV333T

EBV3 - Catalogue numbers

185 mm busbar sy	stem	Weight							
Three-pole switchin	Three-pole switching - each phase independently								
EBV333SV1	Cable terminals: V-terminals with V-clamps 240 mm ²	6,6 kg							
EBV333SM2	Cable terminals: screw terminals with pressed nuts M12	6,5 kg							
EBV333SW1	Cable terminals: 2V-terminals with double V-clamps 240 mm ²	7,2 kg							
EBV333SV0	Cable terminals: V-terminals without V-clamps	6,3 kg							
EBV333SW0	Cable terminals: 2V-terminals without double V-clamps	6,7 kg							
Three pole switchin	g - all phases simultaneously								
EBV333TV1	Cable terminals: V-terminals with V-clamps 240 mm ²	6,6 kg							
EBV333TM2	Cable terminals: screw terminals with pressed nuts M12	6,5 kg							
EBV333TW1	Cable terminals: 2V-terminals with double V-clamps 240 mm ²	7,2 kg							
EBV333TV0	Cable terminals: V-terminals without V-clamps	6,3 kg							
EBV333TW0	Cable terminals: 2V-terminals without double V-clamps	6,7 kg							

EBV3 - Terminal clamps details

Description	EBV 3 V-clamps		EBV 3 Double V-Clar	nps	EBV 3 M12 Screws
Clamp	V-clamp 35-300SW-B		V-clamp HS 2/35 240-0	0	M12 screw (pressed nut)
Outline drawing					#
	V-clamp for direct fixing	g of conductor with bus	bar end with cross section	on of:	
Cross section of conductors	35 - 185 mm² 🛞	35 - 240 mm ²	35 - 185 mm² 🛞	35-240 mm ²	
	35 - 240 mm ²	35 - 300 mm ²	35 - 240 mm ²	35 - 300 mm ²	
Tightening torque	30 Nm		40Nm		56 Nm

For stranded conductors using cable ferrules is recommended

Recommend using Eaton V-terminals only. Minimum tightening torque (M12 screw) for screws fixing fuse switch disconnector to busbar system – 32 Nm, recommended tightening torque for screws and nuts with property class 8.8 – 56 Nm

²⁾ for disconnectors 3-phase disconnected

^{*)} Busbars of maximum width of 40 mm and maximum thickness of 8 mm can be fixed to M type screw terminals when protective busbar barrier between phases is installed.

EBV2 and EBV3 Fuse switch disconnector with lateral busbar terminal*

EBV2 and EBV3 - Technical data

Description	EBV2	EBV3
Rated thermal current I _{th} =I _n	400 A	630 A
Rated voltage U _n	690 V a.c.	690 V a.c.
Utilisation category	AC-22B	AC-22B
Rated switching voltage U _e	690 V a.c.	500 V a.c.
Rated switching current I _e	400 A	630 A
Rated short circuit making current	100 kA	100 kA
Rated short circuit withstand current	100 kA	100 kA
Rated insulation voltage U _i	1000 V a.c.	1000 V a.c.
Rated impulse withstand voltage U _{imp.}	12 kV	12 kV
Rated frequency	50-60 Hz	50-60 Hz
Mechanical durability (number of cycles)	1000	1000
Electrical durability (number of cycles)	200	200
IP degree of protection (IP)	30	30
Compatible NH Fuse link body size	2	3
Accessories see page 73		



Lateral busbar terminals

EBV2 and EBV3 - Catalogue numbers

185 mm busbar sys	stem	Weight
Fuse switch disco	nnectors EBV2 - 400A	
Three-pole switching	g - each phase independently	
EBV233SM2-L	Cable terminals: screw terminals with pressed nuts M12, lateral busbar terminal - left side	5,1 kg
EBV233SM2-R	Cable terminals: screw terminals with pressed nuts M12, lateral busbar terminal - right side	5,1 kg
Three-pole switching	g - all phases simultaneously	
EBV233TM2-L	Cable terminals: screw terminals with pressed nuts M12, lateral busbar terminal - left side	5,1 kg
EBV233TM2-R	Cable terminals: screw terminals with pressed nuts M12, lateral busbar terminal - right side	5,1 kg
Fuse switch disco	nnectors EBV3 – 630 A	
Three-pole switching	g - each phase independently	
EBV333SM2-L	Cable terminals: screw terminals with pressed nuts M12, lateral busbar terminal - left side	5,9 kg
EBV333SM2-R	Cable terminals: screw terminals with pressed nuts M12, lateral busbar terminal - right side	5,9 kg
Three pole switching	g - all phases simultaneously	
EBV333TM2-L	Cable terminals: screw terminals with pressed nuts M12, lateral busbar terminal - left side	5,9 kg
EBV333TM2-R	Cable terminals: screw terminals with pressed nuts M12, lateral busbar terminal - right side	5,9 kg
Fuse switch disco	nnectors EBV3 – 1250 A	
Three pole switching	g - all phases simultaneously	
EBV3-1250-3-2M-L	Switch-disconnector 1250 A , equipped with solid-links 1250 A Cable terminals: screw terminals with pressed nuts M12, lateral busbar terminal - left side	7 kg
EBV3-1250-3-3M-R	Switch-disconnector 1250 A , equipped with solid-links 1250 A Cable terminals: screw terminals with pressed nuts M12, lateral busbar terminal - right side	7 kg

EBV2 and EBV3 with lateral busbar terminals terminal clamps details

Description	EBV 2-x-NL (400 A)	EBV 2-x-NR (400 A)	EBV 3-x-NL (630 A)	EBV 3-x-NR (630 A)
Clamp	M12 screw	M12 screw	M12 screw	M12 screw
Outline drawing	#		#	#
Lateral busbar terminal	Left side	Right side	Left side	Right side
Tightening torque	56 Nm	56 Nm	56 Nm	56 Nm

*EBV 2 and 3 with lateral busbar terminal available upon request. Please contact Eaton's application engineering department for further details: buletechnical@eaton.com

EBV with electronic fuse monitoring module

Electronic fuse monitoring module

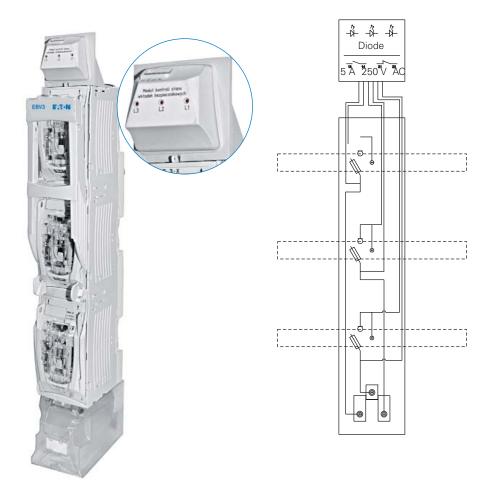
Fuse switch disconnector can be equipped with electronic fuse monitoring module. Fuse link status (operational, operated, loss of voltage) is indicated by light-emitting diodes and status of relay contacts.

Principle of operation

- L1, L2, L3 diodes are on all three phases are supplied, all fuse links are operational. Relay contacts: [21..22] - closed; [13..14] - opened
- L1, L2, L3 diodes are flashing all three phases are supplied, fuse links operated Relay contacts: [21..22] - opened; [13..14]
 - closed
- L1, L2, L3 diodes are off two or more phases are not supplied or fuse links are removed. Relay contacts: [21..22] - opened; [13..14] - closed

Nominal parameters

- Operating voltage AC 400 690 V, 40-60 Hz;
- Relay parameters 5 A , 250 V_{\sim}



EBV with electronic fuse monitoring module available upon request. Please contact Eaton's application engineering department for further details: buletechnical@eaton.com

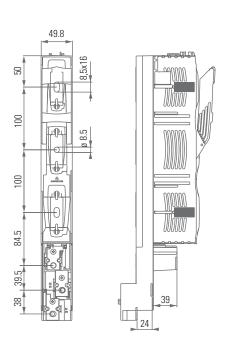
EBV with electronic fuse monitoring module

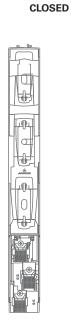
Catalogue numbers

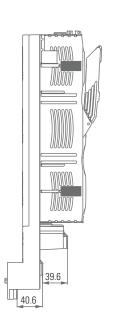
Catalogue number	Description	Weight
Fuse switch disconn	ectors EBV2 - 400 A	
For installation on 185 r	mm busbar system, one pole switching - each phase independently	
EBV233SV1-E	Cable terminals: V-terminals with V-clamps 240 mm ²	5,9 kg
EBV233SM1-E	Cable terminals: screw terminals with pressed nuts M10	5,8 kg
EBV233SW1-E	Cable terminals: 2V-terminals with double V-clamps 240 mm ²	6,5 kg
EBV233SV0-E	Cable terminals: V-terminals without V-clamps	5,6 kg
EBV233SW0-E	Cable terminals: 2V-terminals without double V-clamps	6,0 kg
For installation on 185 r	mm busbar system, three pole switching - all phases simultaneously	
EBV233TV1-E	Cable terminals: V-terminals with V-clamps 240 mm ²	5,9 kg
EBV233TM1-E	Cable terminals: screw terminals with pressed nuts M10	5,8 kg
EBV233TW1-E	Cable terminals: 2V-terminals with double V-clamps 240 mm ²	6,5 kg
EBV233TV0-E	Cable terminals: V-terminals without V-clamps	5,6 kg
EBV233TW0-E	Cable terminals: 2V-terminals without double V-clamps	6,0 kg
Fuse switch disconn	ectors EBV3 – 630 A	
For installation on 185 r	mm busbar system, one pole switching - each phase independently	
EBV333SV1-E	Cable terminals: V-terminals with V-clamps 240 mm ²	6,7 kg
EBV333SM2-E	Cable terminals: screw terminals with pressed nuts M12	6,6 kg
EBV333SW1-E	Cable terminals: 2V-terminals with double V-clamps 240 mm ²	7,3 kg
EBV333SV0-E	Cable terminals: V-terminals without V-clamps	6,4 kg
EBV333SW0-E	Cable terminals: 2V-terminals without double V-clamps	6,8 kg
For installation on 185 i	mm busbar system, three pole switching - all phases simultaneously	
EBV333TV1-E	Cable terminals: V-terminals with V-clamps 240 mm ²	6,7 kg
EBV333TM2-E	Cable terminals: screw terminals with pressed nuts M12	6,6 kg
EBV333TW1-E	Cable terminals: 2V-terminals with double V-clamps 240 mm ²	7,3 kg
EBV333TV0-E	Cable terminals: V-terminals without V-clamps	6,4 kg
EBV333TW0-E	Cable terminals: 2V-terminals without double V-clamps	6,8 kg

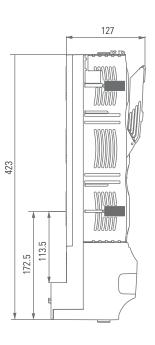
EBV with electronic fuse monitoring module available upon request. Please contact Eaton's application engineering department for further details: buletechnical@eaton.com

EBV00 / 100 mm , EBV00-1 , EBV00-3



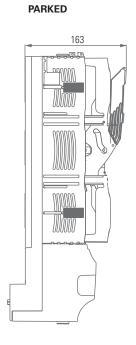






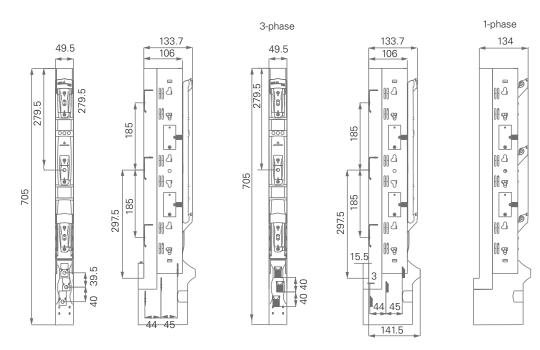
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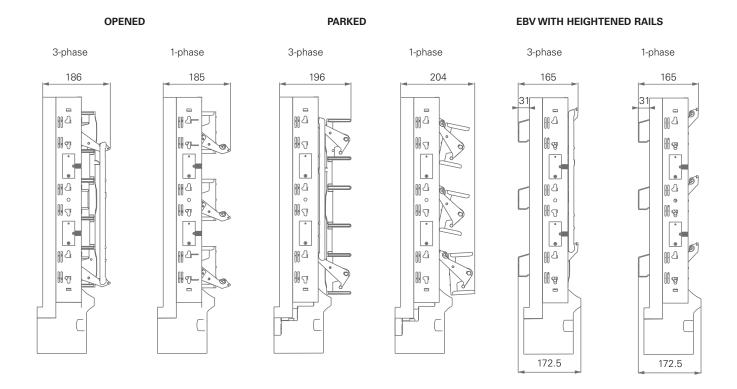
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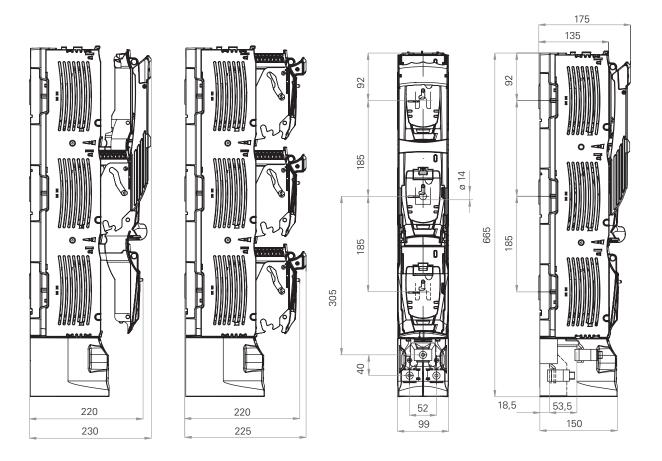
EBV00/100 mm, EBV00-1, EBV00-3 Closed 3-phase

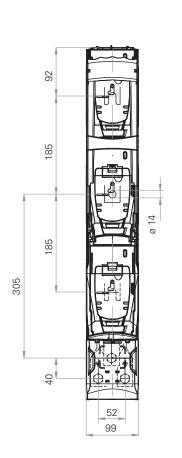
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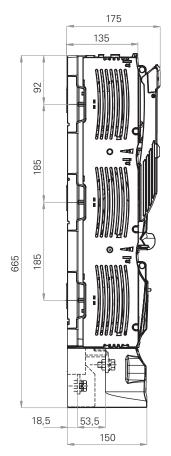


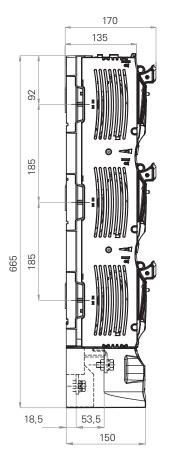


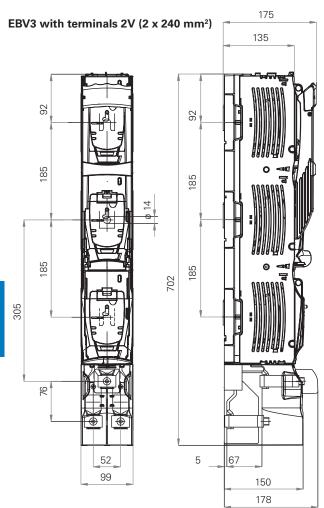
EBV2 and EBV3



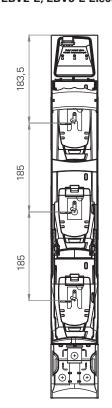


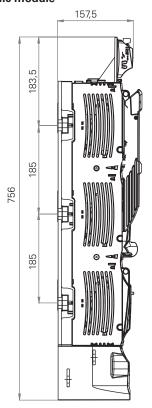


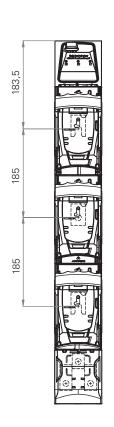


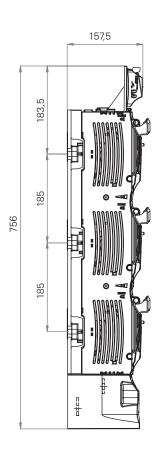




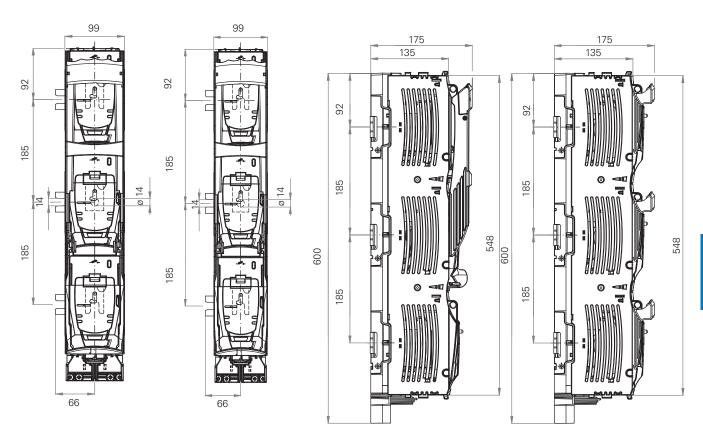








EBV2, EBV3 with lateral busbar terminal



EBV Vertical fuse switch disconnectors - Accessories

EBV00, EBV00 / 100 mm

EBFVA1 - M8 Terminal screw

M8 terminal screw, for connection of conductors with lug terminal (set - 3 pcs.)



EBFVA2 - Busbar shroud

Busbar shroud (polycarbonate) for busbar system 185 mm, Width 50 mm, length 562 mm, thickness 3 mm



EBFVA4 - Isolating pin

Isolating pin for fixing the 50 mm busbar shroud, M8 (set - 2 pcs.)



EBFVA6 - S-Bridge clamp

S-Bridge clamp - fixed with 2 x M5 screw - for connection of conductors with cross-section $4 \text{ mm}^2 \text{ up to } 70 \text{ mm}^2 \text{ (set } -3 \text{ pcs.)}$



EBFVA7 - V-shape clamp

V-shape clamp - S-bridge clamp + V-shape saddle - for connection of sector-shaped conductors with cross-section 1,5 up to 70 mm² (stranded) or 95 mm² (solid) (set - 3 pcs.)



EBFVA8 - Universal earthing device

Universal earthing device for EBV 00, 2, 3



EBFVA32 - V-Clamp 25-120 SW

V-clamp 25-120 SW. For connection of conductor with cross-section:

16 - 95 mm² 25 - 120 mm² 25 - 120 mm²





EBFVA9 - V-clamp HM-10-120

V-clamp HM-10-120. For connection of conductor with cross-section:

10 - 70 mm² 25 - 120 mm²







EBFVA3 - Hooked clamps

Hooked clamps for installation of EBV on busbar system without drilled holes. (set - 3 pcs.)



EBV00 / 100 mm

EBFVA33 - Micro switch

Micro switch for fuse link cover position monitoring (0-1) of EBV 00/100mm



EBFVA34 - Support angle

Support angle for installation of busbar



EBV00 / 100 mm

EBFVA35 - Labelling area

Labelling area



EBFVA10 - Terminal shroud/adjusting shroud

Terminal shroud/adjusting shroud. When fixed top and bottom of EBV 00/100 mm it adjusts its length and height to that of EBV 2, 3 enclosure



EBFVA36 - Extended terminal shroud/adjusting shroud

Extended terminal shroud/adjusting shroud. Together with two shrouds it adjusts the length and height of EBV 00/100 mm to that of EBV 1, 2, 3 with terminal shroud



EBFVA37 - Extended terminal shroud/adjusting shroud

Extended terminal shroud/adjusting shroud. When fixed to shroud it adjusts the length and height of EBV 00/100 mm to that of EBV 2, 3 with label holder 53-945826-011.



EBFVA11 - Single adaptor

Single adaptor 100/185 enabling to install EBV 00/100 mm on busbar system 185 mm



EBFVA12 - Double adaptor

Double adaptor 100/185 enabling to install two EBV 00/100 mm units on busbar system 185 mm



EBFVA15 - Single distance adaptor

Single distance adaptor 185/185. It adjusts front line of EBV 00 to that of EBV 2,3 (set - 3 pcs.)



EBFVA14 - Double distance adaptor

Double distance adaptor 185/185. Designed for two EBV 00 units. It adjusts front line of EBV 00 to that of EBV 2,3 (set -3 pcs.)



EBFVA16 - Terminal shroud

Terminal shroud



EBFVA38 - Hooked clamps

Hooked clamps for installation of EBV with heightened rails on busbar system without drilled holes. (set - 3 pcs.)



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EBV Vertical fuse switch disconnectors - Accessories

EBV2, EBV3, EBV630 kVA, EBV1250

Terminal screw

For connection of conductors with lug terminal (1 set- 3pcs)



EBFVA17 - M10 terminal screw for EBV1 and EBV2

EBFVA18 - M12 terminal screw for EBV3

EBFVA19 - V-clamp

V-clamp. For connection of conductor with cross-section:





EBFVA20 - V-clamp

V-clamp. For connection of conductor with cross-section:

35 - 185 mm² 35 - 240 mm² 35 - 240 mm² 35 - 300 mm²



EBFVA21 - Double V-clamp

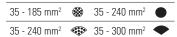
Double V-clamp. For connection of two conductors with cross-section:

₩ 35 - 185 mm² 35 - 240 mm² 35 - 240 mm² 35 - 300 mm²



EBFVA23 - V-clamp HS

V-clamp HS (steel) for connection of two conductors with cross-section





EBFVA24 - Hooked clamps

Hooked clamps for installation of EBV 2, 3 on busbar system without drilled holes (1 set - 3 pcs.)



EBV2, EBV3, EBV630 kVA, EBV1250

EBFVA25 - Busbar shroud

Busbar shroud (polycarbonate) for busbar system 185 mm, width 100 mm, length 562 mm, thickness 3 mm



EBFVA26 - Isolating pin

Isolating pin for fixing the 50 mm busbar shroud, M12 (1 set - 2 pcs.)



EBFVA27 - Terminal shroud

Terminal shroud



EBFVA28 - Extended terminal shroud

Extended terminal shroud, for use with terminal shroud below



EBFVA29 - Terminal protective cover

Terminal protective cover



EBFVA8 - Universal earthing device

Universal earthing device for EBV 00, 2, 3



EBFVA39 - Label holder

Label holder



NH DIN Fuse links overview

Description

A square bodied range of NH DIN industrial fuse links for a wide variety of applications.

Features and benefits

- Comprehensive portfolio: Standard metal gripping lugs and insulated metal gripping lugs versions are available
- Reliability: Dual indication for more reliable fault finding.
- Safety: Lead and cadmium free they are RoHS and REACH compliant (not dangerous or hazardous for the environment).
- Energy efficient solutions: Class leading watts loss helping to improve network efficiencies.

Standards

IEC 60269-1 and 2, VDE 0636, DIN 43620 and CE.



Low voltage — NH DIN Industrial fuse links gG

	400 Volts gG	500 Volts gG	690 Volts gG
Catalogue numbers with conducting metal gripping lugs	(amp)NHG(size)B-400	(amp)NHG(size)B	(amp)NHG(size)B-690
Catalogue numbers with insulated metal gripping lugs	(amp)NHG(size)BI-400	(amp)NHG(size)BI	(amp)NHG(size)BI-690
Fuse link body size	000 to 3	000 to 4	000 to 4
Rated voltage	400 V a.c.	500 V a.c.	690 V a.c.
Rated current	2 to 630 A	2 to 1250 A	2 to 800 A
Operating Class	gG	gG	gG
Breaking capacity	120 kA AC		
Fuse bases	Single pole SD -D DIN-Rail	mounted and SD-S Screw mou	unting or TD-D DIN-Rail mounted (data sheet 10163)
Fuse switches	Fuse switch disconnectors	vertical EBV and horizontal EBF	H (data sheets 10292 and 10293)
Fuse rail	Fuse rail vertical EBF (data	sheet 10240)	
Standards	IEC 60269-1 and 2, VDE 06	36, DIN 43620 and CE	
Applications	Alternative energy, utilities	s, industrial and motor applicati	ons

Data sheets: 400V gG: 720099, 500V gG 10164, 690V gG 720109, 500 and 690V aM: 10165



500/690 Volts aM



Catalogue numbers with conducting metal gripping lugs	500 Volts: (amp)NHM(size)B 690 Volts: (amp)NHM(size)B-690
Catalogue numbers with insulated metal gripping lugs	N/A
Fuse link body size	000 to 3
Rated voltage	500 and 690 V a.c.
Rated current	6 to 500 A
Operating Class	aM
Breaking capacity	120 kA AC
Fuse bases	Single pole SD -D DIN-Rail mounted and SD-S Screw mounting or TD-D DIN-Rail mounted (data sheet 10163)
Fuse switches	Fuse switch disconnectors vertical EBV and horizontal EBH (data sheets 10292 and 10293)
Fuse rail	Fuse rail vertical EBF (data sheet 10240)
Standards	IEC 60269-1 and 2, VDE 0636, DIN 43620 and CE
Applications	Alternative energy, utilities, industrial and motor applications

Low voltage — NH DIN Industrial fuse links range overview

a.c.)			Amp)S																											
Voltage (V a.c.)	Class	Size	2 4	1 6	10	16	20	25	32	35	40	50	63	80	100	125	160	200	224	250	300	315	355	400	425	450	500	630	800	1000	1250
		000	2 4	1 6	10	16	20	25	32	35	40	50	63	80	100																
		00														125	160														
		01								35	40	50	63	80	100	125	160														
400	gg	1																200	224	250											
4	Б	02								35	40	50	63	80	100	125	160	200	224	250											
		2																				315	355	400				630			
		03																		250		315	355	400							
		3																									500	630			
		000	2 4	6	10	16	20	25	32	35	40	50	63	80	100																
		00										50	63	80	100	125	160														
		0		6	10	16	20	25	32	35	40	50	63	80	100	125	160														
		01		6	10	16	20	25	32	35	40	50	63	80	100	125	160														
200	gg	1										50	63	80	100	125	160	200	224	250		315	355								
2	Б	02								35	40	50	63	80	100	125	160	200	224	250											
		2																		250	300	315	355	400	425	450	500				
		03																		250		315	355	400							
		3																				315	355	400	425	450	500	630	800		
		4																									500	630	800	1000	1250
		000	2 4	6	10	16	20	25	32	35	40	50	63																		
		00										50	63	80	100		160														
069	gg	1										50	63	80	100	125	160	200													
9	0,	2																200	224	250		315									
		3																		250		315	355	400	425		500				
		4																										630	800		
0		000		6	10	16	20	25	32	35	40	50																			
500 and 690	_	00													100																
Jan	aM	1										50	63	80	100		160	055	05.	055		0.4=	055								
200		2														125	160	200	224	250		315									
		3																				315	355	400			500				

: Part available, for example Size 00 400 V is available in 125 and 160A

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Contact details

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Calls can be made between:

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The Customer Satisfaction team can be reached via:

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High speed technical enquiries: bulehighspeedtechnical@eaton.com

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