

## CH14 modular fuse holders for 14x51mm fuses

Bussmann series 14x51mm modular fuse holders are suitable for use with standard cylindrical fuses and high speed FW type ferrule fuses. With DIN-Rail or panel mount flexibility, their compact dimensions helps reduce space, allows for higher cable bending radius. Low watts loss and wide range of accessories make them ideally suited for most industrial applications.

## Ratings

- Volts
  - 690 Vac/750 Vdc (IEC)
  - 700 Vac (UL)
- Amps
  - 50 A
- SCCR
  - 120 kA AC
  - 10 kA DC (PV only)
- Power acceptance
  - 5 W to IEC 60269-2 (rated)
  - 6.2 W (max)
- Rated impulse withstand voltage ( $U_{imp}$ )
  - 6 kV
- Microswitch (IEC)
  - 250 Vac / 5 A



Shown with optional microswitch

## Agency information

- IEC 60269-1 and 2, UL Listed File E14853, CCC (UL/IEC)
- IEC 60269-1 and 2, UL Listed File E348242, CCC (PV)
- RoHS compliant

## Poles

1 to 4

## Protection index

- IP20

## Temperature range

- Storage
  - 40°C to +80°C (CH14D)
  - 20°C to +90°C (CHPV14 indicating)
  - 20°C to +120°C (CHPV14 non-indicating)
- Operating
  - 20°C to +70°C (CH14D)
  - 20°C to +90°C (CHPV14 indicating)
  - 20°C to +120°C (CHPV14 non-indicating)

## Features

- Ventilation zones optimized for better heat dissipation
- Built-in padlocking facility and IP20 degree of protection
- Photovoltaic version rated at 1500 Vdc (IEC only) for use with gPV fuses

Data sheet no. 10080

Catalog no.	Poles	Description
<b>UL/IEC holders</b>		
CH141DNXU	1	Neutral holder
CH141DU	1	Fuse holder
CH142DU	2	
CH143DU	3	
CH144DU	4	
CH141DNU	2	1-pole holder+ neutral
CH143DNU	4	3-pole holder+ neutral
CH141DIU	1	Fuse holder with neon indicator
CH142DIU	2	
CH143DIU	3	
CH144DIU	4	
CH141DNIU	2	1-pole holder + neutral + neon indicator
CH143DNIU	4	3-pole holder + neutral + neon indicator
CH141DMSU-F	1	Holder + microswitch
CH143DMSU-F	3	
CH143DNMSU-F	4	3-pole holder+ neutral + microswitch
CHPV141DI-48U	1	Holder with LED indicator
<b>1500 Vdc photovoltaic holders</b>		
CHPV141U	1	Holder
CHPV141IU	1	Holder with neon indicator
CHPV142U	2	Holder
CHPV142IU	2	Holder with neon indicator

## Accessories

Catalog no.	Description
JV-L	Multi-pole connector kit; one kit gangs up to 4 poles
CH14-SPS	Microswitch for CH141D(I)U; 1 NO + 1 NC changeover type
CH14-TPS	Microswitch for CH143D(I)U; 1 NO + 1 NC changeover type
CH14-CTP	IP20 protection accessory for terminals with 10mm <sup>2</sup> or less cable

# 14 x 51 mm Modular fuse holders



## Product description

Eaton's Bussmann® series 14 x 51 mm modular fuse holders are suitable for use with standard cylindrical fuse links and FW type ferrule fuse links.

Their compact dimensions helps reduce space, allows for higher cable bending radius. Low watts loss and wide range of accessories make them ideally suited for most industrial applications.

## Standard features

- Compact dimensions
- Ventilation zones optimised for a better heat dissipation
- Inbuilt padlocking facility
- IP20 degree of protection (see details page 3)
- Photovoltaic version rated at 1500 V d.c. (IEC only) for use with gPV fuse links
- Flexibility to mount on DIN-Rail and/or screw mounting
- Toolless DIN-Rail mounting, improves ease of use and reduces installation time and costs.

### Catalogue symbol

- CH14 (# of poles)**DU**: standard fuse holder
- CH141**DNXU**: neutral fuse holder
- CH14(# of poles)**DNU**: standard fuse holder and neutral
- CH14(# of poles)**DIU**: fuse holder with neon indicator
- CH14(# of poles)**DNIU**: fuse holder with neutral and neon indicator
- CH14(# of poles)**DMSU-F**: fuse holder with microswitch (pre-breaking/fuse operation)
- CH14(# of poles)**DNMSU-F**: fuse holder with neutral and microswitch (pre-breaking/fuse operation)
- CH141DI**48U**: fuse holder with LED Indicator
- CH**PV**14(# of poles)U: suitable for photovoltaic fuse links

### Compatible fuse links

- C14G and C14M: 14 x 51 mm fuse links
- PV-(amp rating)A14F: Photovoltaic gPV Fuse links
- FW Ferrule fuse links

Table 1. FW Ferrule fuse links

Catalogue number	Maximum continuous fuse current	Catalogue number	Maximum continuous fuse current
FWH-5A14F	5 A	FWP-5A14F	5 A
FWH-10A14F	10 A	FWP-10A14F	10 A
FWH-15A14F	15 A	FWP-15A14F	15 A
FWH-20A14F	20 A	FWP-20A14F	20 A
FWH-25A14F	25 A	FWP-25A14F	25 A
FWH-30A14F	24 A	FWP-30A14F	30 A
FWX-5A14F	5 A	FWP-32A14F	32 A
FWX-10A14F	10 A	FWP-40A14F	40 A
FWX-15A14F	15 A	FWP-50A14F	49 A
FWX-20A14F	20 A		
FWX-25A14F	25 A		
FWX-30A14F	30 A		

### Technical data

- Number of poles: 1 to 4
- Rated voltage

	IEC	UL
CH14DU	690 V a.c. / 750 V d.c.	700 V a.c.
CHPV14U	1500 V d.c.	1500 V d.c.

- Rated current
  - IEC: 50 A (a.c. and d.c.)
  - UL: 50 A
- Rated power acceptance: 5 W to IEC 60269-2
- Maximum power acceptance: 6.2 W
- Protection index: IP20
- Rated impulse withstand voltage ( $U_{imp}$ ): 6 kV
- SCCR Rating: 120 kA ac, 10 kA dc for CHPV14U
- Cable size: 1.5 - 50 mm<sup>2</sup>
- Torque settings:
  - Recommended torque setting 3.5 N•m
  - Maximum torque setting: 3.5 N•m

- Mounting 35 mm DIN-Rail or 2 x M4 panel mounting screws
- Self-extinguishable UL 94-V0 rated polyester material
- Storage & operating temperature range

CH14D range:

- Storage temperature -40°C to +80°C
- Operating temperature -20°C to +70°C

CHPV14 range - storage and operating temperature:

- 20°C to +90°C (indicating)
- 20°C to +120°C (non indicating)

- RoHS compliant.

### Standards/Approvals

- IEC 60269-1 and 60269-2
- UL listed: file numbers E14853 for general purpose only; E348242 for photovoltaic gPV CHPV14 modular fuse holders
- CCC

### Packaging

- 1-pole: 6 per pack / 2-pole: 3 per pack
- 3-pole: 2 per pack / 4-pole: 1 per pack

## 14 x 51 mm Modular fuse holders

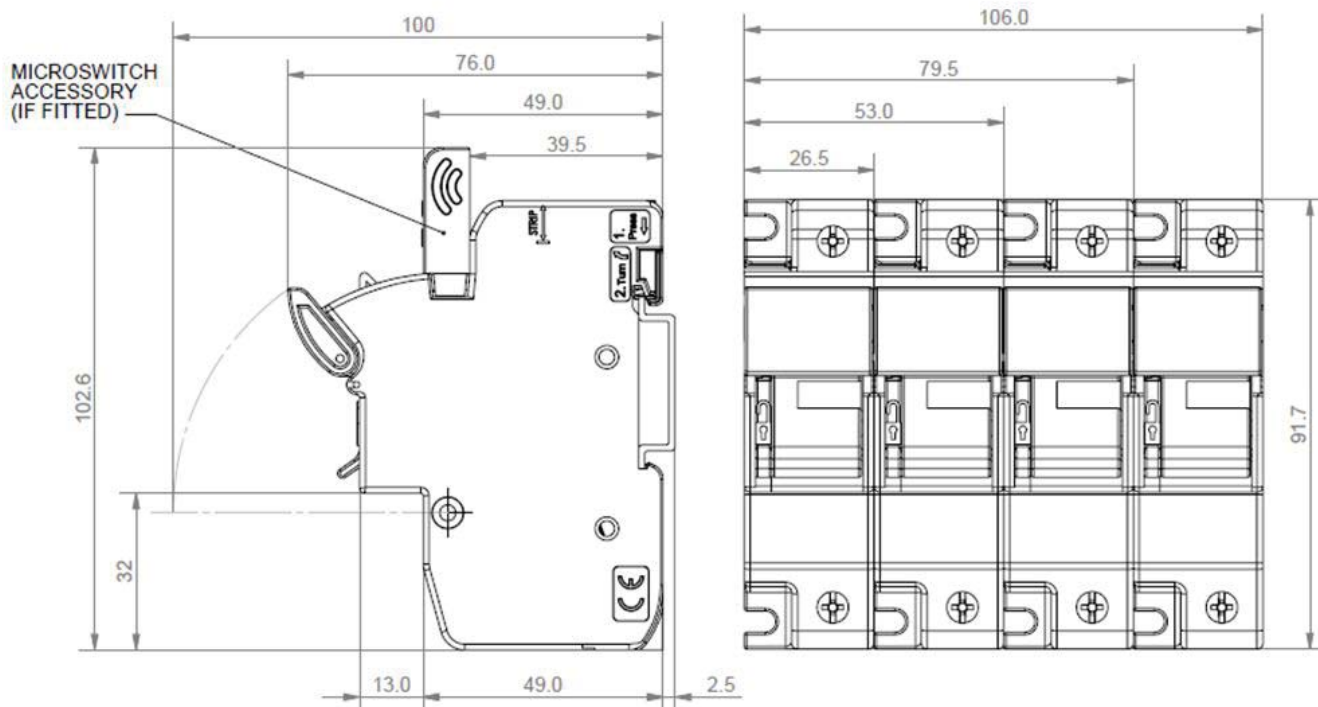
Table 2. Technical Data

Old Catalogue number	New Catalogue number	Number of poles	Description
<b>Neutral only</b>			
CH141BNX	CH141DNXU	1	Neutral cylindrical fuse holder
<b>Fuse holder only</b>			
CH141B	CH141DU	1	1-pole cylindrical fuse holder
CH142B	CH142DU	2	2-pole cylindrical fuse holder
CH143B	CH143DU	3	3-pole cylindrical fuse holder
CH144B	CH144DU	4	4-pole cylindrical fuse holder
<b>Fuse holder and neutral</b>			
CH141BN	CH141DNU	2	1-pole + neutral cylindrical fuse holder
CH143BN	CH143DNU	4	2-pole + neutral cylindrical fuse holder
<b>Fuse holder with neon indicator</b>			
CH141BI	CH141DIU	1	1-pole cylindrical fuse holder with neon indicator
CH142BI	CH142DIU	2	2-pole cylindrical fuse holder with neon indicator
CH143BI	CH143DIU	3	3-pole indicator fuse holder with neon indicator
CH144BI	CH144DIU	4	4-pole indicator fuse holder with neon indicator
<b>Fuse holder with neon indicator and neutral</b>			
CH141BNI	CH141DNIU	2	1-pole + neutral cylindrical fuse holder with neon indicator
CH143BNI	CH143DNIU	4	3-pole + neutral cylindrical fuse holder with neon indicator
<b>Fuse holder with microswitch</b>			
CH141BMS & CH141BMS-F	CH141DMSU-F	1	1-pole cylindrical fuse holder with microswitch for remote fuse indication operation
CH143BMS & CH143BMS-F	CH143DMSU-F	3	3-pole cylindrical fuse holder with microswitch for remote fuse indication operation
<b>Fuse holder with microswitch and neutral</b>			
CH143BNMS-F & CH143BNMS	CH143DNMSU-F	4	3-pole + neutral cylindrical fuse holder with microswitch for remote fuse indication operation
<b>Fuse holder with LED Indicator</b>			
N/A	CHPV141DI-48U	1	1-pole cylindrical fuse holder with LED indicator
<b>Fuse holder for Photovoltaic applications</b>			
CH141D-PV	CHPV141U	1	1-pole cylindrical fuse holder
N/A	CHPV141IU	1	1-pole cylindrical fuse holder with neon indicator
N/A	CHPV142U	2	2-pole cylindrical fuse holder
N/A	CHPV142IU	2	2-pole cylindrical fuse holder with neon indicator

Table 3. Accessories

Catalogue number	Description	Unit packing
JV-L	Multi-pole connector kit. One kit will gang up to 4-poles together	12
CH14-SPS	Microswitch to work on <b>CH141D(I)U</b> , 1 n/o + 1 n/c changeover type	3
CH14-TPS	Microswitch to work on <b>CH143D(I)U</b> , 1 n/o + 1 n/c changeover type	3
CH14-CTP	IP20 Protection accessory, provides IP20 protection to terminals with 10mm <sup>2</sup> or less cable	12

**Dimensional data - mm**



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