

# High Speed FWP Fuse 690V-700V (IEC/UL)

## Ferrule High Speed Fuses With Striker Provide Visual and Remote Fuse Status Indication

- RoHS Compliant
- Very High Breaking Capacity
- Excellent Cycling Capability & DC Performance
- Low Arc Voltage & Low Let-Through Energy Values
- Provides Low Watts Loss in a Compact Size
- Quickly determine the fuse status at a glance via a striker or remote indication
- **Typical applications:**  
Common DC Bus, AC & DC Drives, Power Converters, Power Rectifiers, Soft Starters
- To be used in Finger Safe modular holders with Microswitch (Series CH14 and CH22)
- Meets agency Standards CE, UL Recognition and CSA

勝特力材料 886-3-5753170  
勝特力电子(上海) 86-21-54151736  
勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)



# FWP High Speed Fuses With and Without Striker Specifications

Catalogue Symbol: FWP  
 Ampere Ratings: 1-50A (14x51mm)  
 20-100A (22x58mm)  
 Voltage Ratings: 690Vac (IEC)  
 700Vac (UL)  
 Interrupting Rating: 200kA RMS Sym  
 50kA @ 700Vdc (14x51mm)  
 50kA @ 500Vdc (22x58mm)  
 Agency Information: CE, UL recognition, CSA  
 RoHS Status: Compliant

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14x51mm

## Technical Specifications & Cross-Reference

| Cooper Bussmann Part No | Previous Part No     | Current RMS Amps** | I <sup>2</sup> t (A <sup>2</sup> S) |                           | Watts Loss** | CH14 Fuseholder Maximum Continuous Current (Amps) |
|-------------------------|----------------------|--------------------|-------------------------------------|---------------------------|--------------|---|
|                         |                      |                    | Minimum Pre-arc                     | Clearing @ U <sub>N</sub> |              |   |
| Without Striker         |                      |                    |                                     |                           |              |   |
| FWP-1A14F               | N/A                  | 1                  | 0.035                               | 0.41                      | 5.7          | 1   |
| FWP-2A14F               | N/A                  | 2                  | 0.08                                | 0.11                      | 8.6          | 2   |
| FWP-3A14F               | N/A                  | 3                  | 0.11                                | 0.26                      | 2.8          | 3   |
| FWP-4A14F               | N/A                  | 4                  | 0.1                                 | 0.26                      | 3            | 4   |
| FWP-5A14F               | N/A                  | 5                  | 1.6                                 | 11                        | 1.5          | 5   |
| FWP-10A14F              | N/A                  | 10                 | 3.6                                 | 39                        | 4            | 10  |
| FWP-15A14F              | 170N1005             | 15                 | 8.6                                 | 70                        | 5.5          | 14  |
| FWP-20A14F              | 170N1006<br>170N1007 | 20                 | 26                                  | 230                       | 6            | 18  |
| FWP-25A14F              | 170N1008             | 25                 | 47                                  | 375                       | 7            | 21  |
| FWP-30A14F              | N/A                  | 30                 | 58                                  | 485                       | 9            | 22  |
| FWP-32A14F              | 170N1009             | 32                 | 68                                  | 600                       | 8            | 27  |
| FWP-40A14F              | 170N1011<br>170L1013 | 40                 | 84                                  | 750                       | 8            | 32  |
| FWP-50A14F              | 170L1014             | 50                 | 200                                 | 1800                      | 9            | 38  |
| With Striker            |                      |                    |                                     |                           |              |   |
| FWP-10A14FI             | N/A                  | 10                 | 3.6                                 | 39                        | 4            | 9   |
| FWP-15A14FI             | 170N1105             | 15                 | 8.6                                 | 70                        | 5.5          | 12  |
| FWP-20A14FI             | 170N1106<br>170N1107 | 20                 | 26                                  | 230                       | 6            | 16  |
| FWP-25A14FI             | 170N1108             | 25                 | 47                                  | 375                       | 7            | 20  |
| FWP-30A14FI             | N/A                  | 30                 | 58                                  | 485                       | 9            | 24  |
| FWP-32A14FI             | 170N1109             | 32                 | 68                                  | 600                       | 8            | 25  |
| FWP-40A14FI             | 170N1111<br>170L1113 | 40                 | 84                                  | 750                       | 8            | 32  |
| FWP-50A14FI             | 170L1114             | 50                 | 200                                 | 1800                      | 9            | 40  |

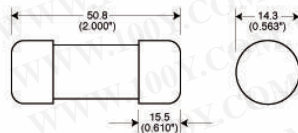
\*\* In open fuse clips

## Fuseholders

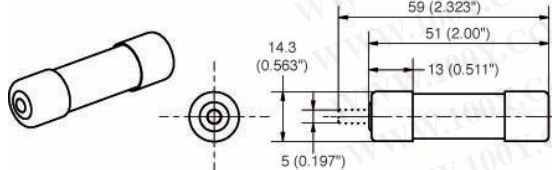
| Series Size | Max Voltage & Current                                      | IEC | UL | Phase configuration            | Fuse Holder | Fuse Holder with Neon Indication | Box Qty |
|-------------|--|-----|----|--------------------------------|-------------|----------------------------------|---------|
| CH14 14X51  | UL<br>600Vac/dc<br>40A<br>(5 watt)<br>IEC<br>690Vac<br>50A | -   | x  | 1 pole                         | CH141D      | CH141DI                          | 6       |
|             |  |     |    | 1 pole + microswitch           | CH141DMS    | -                                | 6       |
|             |  |     |    | 1 neutral pole                 | CH141DNX    | -                                | 6       |
|             |  |     |    | 1 pole + neutral               | CH141DN     | CH141DNI                         | 3       |
|             |  |     |    | 2 pole                         | CH142D      | CH142DI                          | 3       |
|             |  |     |    | 3 pole                         | CH143D      | CH143DI                          | 2       |
|             |  |     |    | 3 pole + microswitch           | CH143DMS    | -                                | 2       |
|             |  |     |    | 3 pole + neutral               | CH143DN     | CH143DNI                         | 1       |
|             |  |     |    | 3 pole + neutral + microswitch | CH143DNMS   | -                                | 1       |
|             |  |     |    | 4 pole                         | CH144D      | CH144DI                          | 1       |

## Dimensions

Without Striker



With Striker



22x58mm

## Technical Specifications & Cross-Reference

| Cooper Bussmann Part No | Previous Part No     | Current RMS Amps** | I <sup>2</sup> t (A <sup>2</sup> S) |                           | Watts Loss*** | CH22 Fuseholder Maximum Continuous Current (Amps) |
|-------------------------|----------------------|--------------------|-------------------------------------|---------------------------|---------------|---|
|                         |                      |                    | Minimum Pre-Arc                     | Clearing @ U <sub>N</sub> |               |   |
| Without Striker         |                      |                    |                                     |                           |               |   |
| FWP-20A22F              | N/A                  | 20                 | 19                                  | 260                       | 5             | 18  |
| FWP-25A22F              | 170N2008             | 25                 | 34                                  | 410                       | 6             | 23  |
| FWP-32A22F              | 170N2009             | 32                 | 54                                  | 605                       | 8             | 29  |
| FWP-40A22F              | 170N2011             | 40                 | 68                                  | 750                       | 9             | 36  |
| FWP-50A22F              | 170L2214<br>170N2013 | 50                 | 135                                 | 1600                      | 9.5           | 45  |
| FWP-63A22F              | 170L2216             | 63                 | 280                                 | 3080                      | 11            | 58  |
| FWP-80A22F              | 170L2217             | 80                 | 600                                 | 6600                      | 14            | 66  |
| FWP-100A22F             | 170L2218             | 100*               | 1100                                | 12500**                   | 16            | 78  |
| With Striker            |                      |                    |                                     |                           |               |   |
| FWP-20A22FI             | N/A                  | 20                 | 19                                  | 260                       | 5             | 18  |
| FWP-25A22FI             | 170N2108             | 25                 | 34                                  | 410                       | 6             | 23  |
| FWP-32A22FI             | 170N2109             | 32                 | 54                                  | 605                       | 8             | 29  |
| FWP-40A22FI             | 170N2111             | 40                 | 68                                  | 750                       | 9             | 36  |
| FWP-50A22FI             | 170L2114<br>170N2113 | 50                 | 135                                 | 1600                      | 9.5           | 45  |
| FWP-63A22FI             | 170L2116             | 63                 | 280                                 | 3080                      | 11            | 50  |
| FWP-80A22FI             | 170L2117             | 80                 | 600                                 | 6600                      | 14            | 64  |
| FWP-100A22FI            | 170L2118             | 100*               | 1100                                | 12500**                   | 16            | 80  |

\* IEC/UL Voltage rating 600/700V

\*\* Clearing I<sup>2</sup>t at 600V

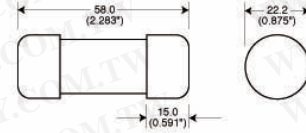
\*\*\* In open fuse clips

## Fuseholders

| Series Size | Max Voltage & Current  | IEC | UL | Phase configuration            | Fuse Holder | Fuse Holder with Neon Indication | Box Qty |
|-------------|--|-----|----|--------------------------------|-------------|----------------------------------|---------|
| CH22 22x58  | UL<br>600Vac/dc<br>100A<br>(9.5 Watt)<br>IEC<br>690Vac<br>125A | -   | x  | 1 pole                         | CH221D      | CH221DI                          | 6       |
|             |  |     |    | 1 pole + microswitch           | CH221DMS    | -                                | 6       |
|             |  |     |    | 1 neutral pole                 | CH221DNX    | -                                | 6       |
|             |  |     |    | 1 pole + neutral               | CH221DN     | CH221DNI                         | 3       |
|             |  |     |    | 2 pole                         | CH222D      | CH222DI                          | 3       |
|             |  |     |    | 3 pole                         | CH223D      | CH223DI                          | 2       |
|             |  |     |    | 3 pole + microswitch           | CH223DMS    | -                                | 2       |
|             |  |     |    | 3 pole + neutral               | CH223DN     | CH223DNI                         | 1       |
|             |  |     |    | 3 pole + neutral + microswitch | CH223DNMS   | -                                | 1       |
|             |  |     |    | 4 pole                         | CH224D      | CH224DI                          | 1       |

## Dimensions

Without Striker



With Striker

