

Wind CUBEFuse™

For Wind Power Generation Applications



Catalog Symbol: WCF_RN

Description: Finger-safe, fast-acting CUBEFuse for wind power generation.

Electrical Characteristics: Maximum clearing time at 200% rated current:

- 4 Minutes for 1 to 30A fuses
- 6 Minutes for 35 to 60A fuses
- 8 Minutes for 70 to 100A fuses

Ratings:

- Volts — 690Vac
- Amps — 1-100A
- IR — 50kA AC (1-60A)
- IR — 30kA AC (70-100A)

Agency Information:

- UL Recognized Fuse: Guide JFHR, File E56412
- cURus component certified C22.2

Other Ratings/Specifications:

- Watts Loss at Rated Current:** WCF15RN: 3.48W
WCF30RN: 5.45W
WCF60RN: 7.27W
WCF100RN: 11.50W

Operating and Storage Temperature Range: -40 to 90°C

Material Specifications:

- Case: Glass filled PES (Polyethersulfone)
- Terminals: Copper alloy
- Terminal plating: Electroless tin

Installation:

Fits 690V WCF holders as listed in the table

Application:

- Wind Systems:
 - Transformer protection
 - Pitch and speed control
 - Turbine HVAC and lighting

Carton Quantity and Weight

| Amp Rating | Carton Qty. | Weight Per Carton | |
|------------|-------------|-------------------|------|
| | | lbs | kg |
| WCF1-30A | 12 | 1.39 | 0.63 |
| WCF35-60A | 12 | 1.42 | 0.65 |
| WCF70-100A | 6 | 1.74 | 0.79 |

Features and Product Benefits

- Maximize uptime and reliability using fuses designed and recognized to UL 248 for low voltage fuses
- Fast-acting protection specifically designed for low-fault current conditions that occur in wind power generation systems
- Minimize chances of equipment failure and personnel injury when using full range fuses having fast response time to low-magnitude faults
- Simplify compatibility with readily available industry standard Class CF holders while minimizing panel space by up to 80%
- Meets all UL specified overload opening requirements
- Minimizes incident energy and reduces arc flash hazards utilizing Class J electrical characteristics
- Finger-safe feature minimizes exposure to live parts, reducing hazard to personnel

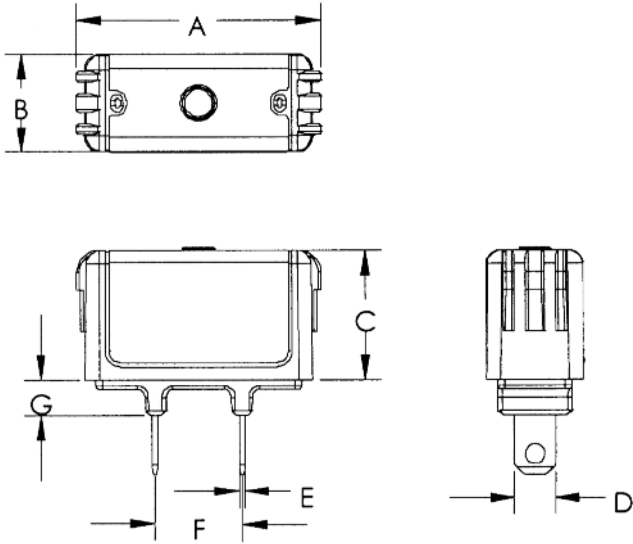
Catalog Numbers (amp rating)

| Non-Indicating Wind CUBEFuse | | | | |
|------------------------------|---------|---------|---------|----------|
| WCF1RN | WCF15RN | WCF35RN | WCF60RN | WCF100RN |
| WCF3RN | WCF20RN | WCF40RN | WCF70RN | — |
| WCF6RN | WCF25RN | WCF45RN | WCF80RN | — |
| WCF10RN | WCF30RN | WCF50RN | WCF90RN | — |

Wind CUBEFuse Holders

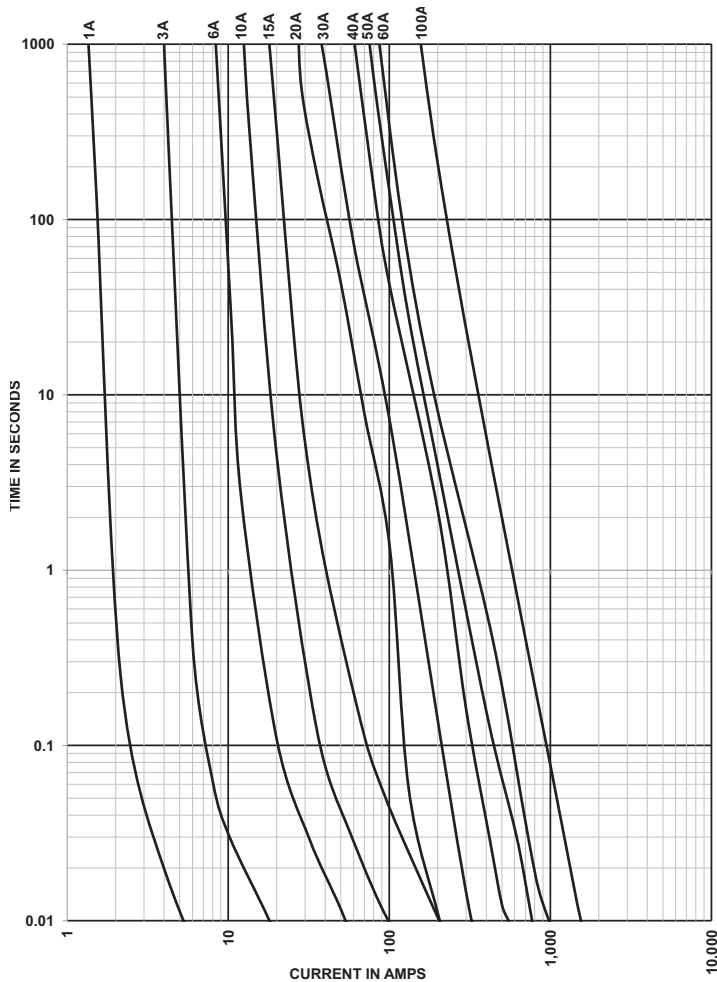
| Catalog Numbers (amps) | Fits 690V Wind CUBEFuse Holder | | |
|------------------------|--------------------------------|----------|-----------|
| | TCFH30NW | TCFH60NW | TCFH100NW |
| WCF1RN | X | X | X |
| WCF3RN | X | X | X |
| WCF6RN | X | X | X |
| WCF10RN | X | X | X |
| WCF15RN | X | X | X |
| WCF20RN | X | X | X |
| WCF25RN | X | X | X |
| WCF30RN | X | X | X |
| WCF35RN | | X | X |
| WCF40RN | | X | X |
| WCF50RN | | X | X |
| WCF60RN | | X | X |
| WCF70RN | | | X |
| WCF80RN | | | X |
| WCF90RN | | | X |
| WCF100RN | | | X |

WCF_RN Dimensions – in (mm)

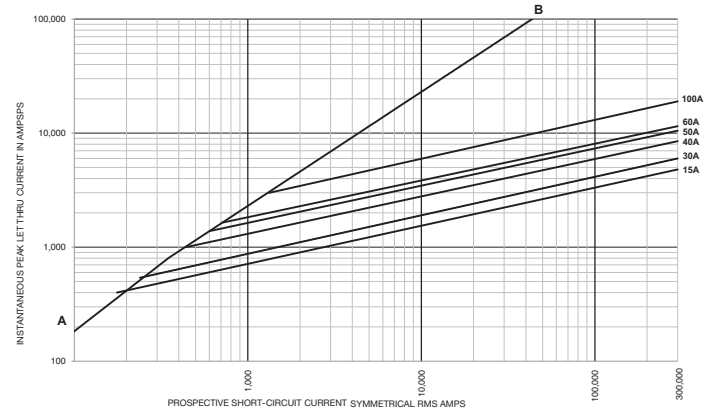


| Fuse Amps | Dimensions - in (mm) | | | | | | |
|-----------|----------------------|-----------------|-----------------|-----------------|----------------|-----------------|----------------|
| | A | B | C | D | E | F | G |
| 1-15 | 1.88 (47.75) | 0.75 (19.05) | 1.00 (25.40) | 0.23 (5.84) | 0.04 (1.02) | 0.63 (15.93) | 0.28 (7.11) |
| 20 | 1.88 (47.75) | 0.75 (19.05) | 1.00 (25.40) | 0.31 (7.87) | 0.04 (1.02) | 0.63 (15.93) | 0.28 (7.11) |
| 25-30 | 1.88 (47.75) | 0.75 (19.05) | 1.00 (25.40) | 0.31 (7.87) | 0.04 (1.02) | 0.63 (15.93) | 0.28 (7.11) |
| 35-40 | 2.13 (54.10) | 1.00 (25.40) | 1.13 (28.58) | 0.36 (9.10) | 0.04 (1.02) | 0.63 (15.93) | 0.38 (9.65) |
| 45-50 | 2.13 (54.10) | 1.00 (25.40) | 1.13 (28.58) | 0.44 (11.13) | 0.04 (1.02) | 0.63 (15.93) | 0.38 (9.65) |
| 60 | 2.13 (54.10) | 1.00 (25.40) | 1.13 (28.58) | 0.44 (11.13) | 0.04 (1.02) | 0.63 (15.93) | 0.38 (9.65) |
| 70 | 3.01 (76.45) | 1.00 (25.40) | 1.26 (32.00) | 0.49 (12.45) | 0.06 (1.60) | 0.58 (14.78) | 0.38 (9.65) |
| 80-90 | 3.01 (76.45) | 1.00 (25.40) | 1.26 (32.00) | 0.49 (12.45) | 0.06 (1.60) | 0.58 (14.78) | 0.38 (9.65) |
| 100 | 3.01 (76.45) | 1.00 (25.40) | 1.26 (32.00) | 0.57 (14.48) | 0.06 (1.60) | 0.58 (14.78) | 0.38 (9.65) |

Time-Current Characteristic Curves—Average Melt



Current Limitation Curves



Wind CUBEFuse Holders



All 690V 100, 60 and 30A Wind CUBEFuse holders can be dovetail together for the required number of poles.

690V Fuse Holder Catalog Numbers

| Catalog Numbers | Amp Range |
|-----------------|-----------|
| TCFH30NW | 1-30 |
| TCFH60NW | 1-60 |
| TCFH100NW | 1-100 |

The only controlled copy of this Data Sheet is the electronic read-only version located on the Cooper Bussmann Network Drive. All other copies of this document are by definition uncontrolled. This bulletin is intended to clearly present comprehensive product data and provide technical information that will help the end user with design applications. Cooper Bussmann reserves the right, without notice, to change design or construction of any products and to discontinue or limit distribution of any products. Cooper Bussmann also reserves the right to change or update, without notice, any technical information contained in this bulletin. Once a product has been selected, it should be tested by the user in all possible applications.



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.