

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 |

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- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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