

UTILITY

COMMERCIAL

INDUSTRIAL

RESIDENTIAL

RCHW Series

Heavy-Duty | Highly Configurable | Hardwired



The **RCHW Series** provides **high-energy surge protection** and **optional RF filtering** for Residential, Commercial, Industrial and Remote Site applications.

These hardwired units provide superior control over transients by delivering low clamping voltages combined with high surge energy handling capabilities. All RCHW models are Type 1 or Type 2 Surge Protection Devices that are listed to **ANSI/UL 1449**.

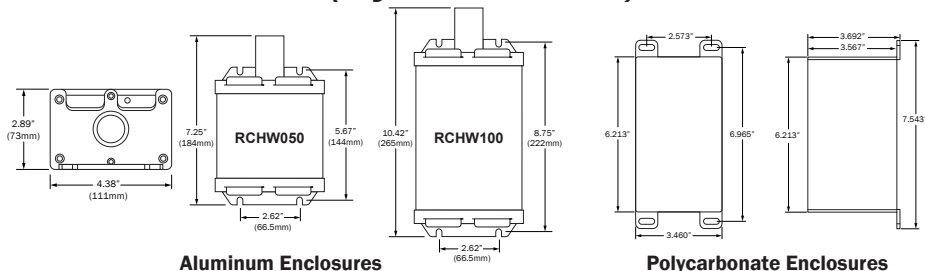
They are configured for **quick and easy parallel installation** and require little maintenance while in service.

The RCHW Series is available for all service voltages and phase configurations and can be equipped with several specialized diagnostic options. All Models have a 100kA RMS symmetrical fault current rating suitable for all IEEE category C locations and are available with surge ratings of 50kA or 100kA per phase.†

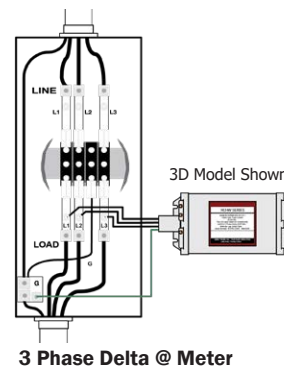
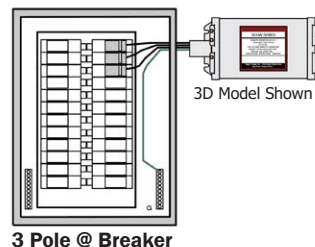


Dimensions

(Diagrams not drawn to scale)



Typical Installations



Product Specifications

Max Surge Current (8/20) I_{max}	Up to 200 kA	Operating Frequency	47-63 Hz (50/60 Hz Typ.)
Short-Circuit Current Rating (SCCR)	100 kA RMS Symmetrical	Fusing	Surge/ Thermal
Repetative Impulse Rating (I_n)	20 kA*	Enclosure	Extruded aluminum (with Zytel end caps) or Polycarbonate
On/Off Status ♦	LED	Response Time	< 1 Nanosecond
Housing Rating	NEMA 1, 2, 3, 3X, 4X, 12 & 13	Listings & Certifications	Listed to ANSI/UL 1449, CSA
Most Current Industry Standards	ANSI/UL 1449	Warranty	15 Year Limited Product Warranty
Surge Technology	MOV	Connector Method	Hardwired
Operating Temperature	-31 °F to +104 °F (-35 °C to +40 °C)	Relative Humidity	95% noncondensing

† Special order options up to 200KA models, please contact the manufacturer for details.

* Devices that are rated 480V delta have a 10kA I_n

♦ See **Installation Guide** for detailed instruction on reading On/Off Status

Model Number	Service Voltage	MCOV	L-N	L-G	N-G	L-L
RCHWxxx/120-10-#-1	120V Single Phase	150V	600V	600V	600V	-
RCHWxxx/120-3H-0-1	120/240V 3 Phase Delta	150/320V	600/1000V	600/1000V	600V	1200/1800V
RCHWxxx/120-3W-#-1	120/208V 3 Phase Wye	150V	600V	600V	600V	1200V
RCHWxxx/120-SP-#-1	120/240V Split Phase	150V	600V	600V	600V	1200V
RCHWxxx/220-3W-#-1	220/380V 3 Phase Wye	320V	1000V	1000V	1000V	2000V
RCHWxxx/230-3W-#-1	230/400V 3 Phase Wye	320V	1000V	1000V	1000V	2000V
RCHWxxx/240-3D-0-1	240V 3 Phase Delta	320V	-	1000V	-	2000V
RCHWxxx/240-3W-#-1	240/415V 3 Phase Wye	320V	1000V	1000V	1000V	2000V
RCHWxxx/277-3W-#-1	277/480V 3 Phase Wye	320V	1000V	1000V	1000V	2000V
RCHWxxx/480-3D-0-1	480V 3 Phase Delta	520V	-	1800V	-	4000V

1. **Replace xxx with:** 050 for 50kA or with 100 for 100kA (200 for 200kA per phase) Surge Ratings

2. **Replace # with:** F if filtering is required (available option on WYE Models only).

3. **Options:** Add /DC for Dry Contacts, Add /AA for Audible Alarm, Add /FM for Flush Mount Kit.

4. **Add:** /POL to the end of the Model Number for the optional NEMA 4X Polycarbonate Housing

5. **Add:** /WP to the end of the Model Number for the optional weatherproof, NEMA 4X, 3/4" grey thick flexible nonmetallic conduit

6. **Add:** /FLEX to the end of the Model Number for the optional weatherproof, NEMA 4X, 3/4" black thin nonmetallic conduit

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