

# Commercial/Light Industrial Hardwire Surge Protective Device

## RCHW SERIES

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 ETL Listed for use as either a Type 1 or Type 2 UL 1449 3rd edition SPD devices. They are configured for quick and easy parallel installation and require little maintenance while in service.

Superior energy handling capabilities of the RCHW Series is due to the utilization of large diameter MOV technology. The unique design and construction of the Series allows them to deliver low clamping voltages while safely dealing with large surge currents.

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, 100kA or 200kA per phase.



### Product Specifications

Max Surge Current	200kA per phase
Short Circuit Current*	100kA RMS Symmetrical Amps
Fusing	Coordinated Surge & Thermal
Housing Rating	NEMA 1, 2, 3, 3X, 4X, 12 & 13
Diagnostics	LED
Safety Standards	UL 1449 3rd Ed. (Sept. 2009)
$I_n^*$	20kA

\*Required by UL 1449 3rd Edition

### Material Specifications

- Wire Lead Length: 36 inches is standard
- Enclosures:
  - Mill finished Aluminum with Zytel Plastic End Caps (UL 94-5V Flame Rated) - Standard
  - NEMA 4X Non-Metallic Housing - Optional

Dimensions	Weight
2.9"H x 4.25"W x 7.5"L	2.5 lbs
2.9"H x 4.25"W x 10.5"L	4 lbs
2.9"H x 4.25"W x 14.5"L	6 lbs

MODEL NUMBER	SERVICE VOLTAGE	MCOV	VPR			
			L-N	L-G	N-G	L-L
RCHW100/120-10-#-1	120 Volt Single Ø	150Vac	600V	600V	600V	N/A
RCHW100/120-SP-#-1	120/240 Volt Split Ø	150Vac	600V	600V	600V	1200V
RCHW100/120-3W-#-1	120/208 Volt 3Ø Wye	150Vac	600V	600V	600V	1200V
RCHW100/120-3H-0-1	120/240 Volt 3Ø Delta	150/320Vac	600/1000V	600/1000V	600V	1200/1800V
RCHW100/240-3D-0-1	240 Volt 3Ø Delta	320Vac	N/A	1000V	N/A	2000V
RCHW100/220-3W-#-1	220/380 Volt 3Ø Wye	320Vac	1000V	1000V	1000V	2000V
RCHW100/230-3W-#-1	230/400 Volt 3Ø Wye	320Vac	1000V	1000V	1000V	2000V
RCHW100/240-3W-#-1	240/415 Volt 3Ø Wye	320Vac	1000V	1000V	1000V	2000V
RCHW100/277-3W-#-1	277/480 Volt 3Ø Wye	320Vac	1000V	1000V	1000V	2000V
RCHW100/480-3D-0-1	480 Volt 3Ø Delta	520Vac	N/A	1800V	N/A	4000V

- NOTES:**
1. Replace 100 for 100kA with 050 for 50kA or 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 NonMetallic Housing.



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