



High Power Solid State Relays

Wattcor W211 / W212 ,
“zero crossing” switching



The Wattcor W211 / 212 line offers highly reliable solid state power control with “zero crossing” switching up to 600A / 660Vac for resistive loads. The units are ideally suited for repetitive, wear and tear free switching of heater banks. The most outstanding features of these switches are low heat dissipation and compact, space saving construction.

The **W211** is triggered by a logic signal (5-30 VDC or Vac). Three phase loads can be controlled by two or three W211 units.

The **W212** is controlled by an analogue signal (0-5V, 0-10V, 0 / 4-20mA) or potentiometer. The output switches in bursts

(“zero crossing” switching) and the duty cycle is proportional to the input signal. The cycle time of the output can be adjusted by a trimmer incorporated in the unit. Three phase loads can be controlled by using one W212 as master and one or more W211 as slaves. The master unit synchronizes the slave units.

Common features:

- Compact construction, space saving
- Low power dissipation (1.2W / A)
- Zero crossing switching
- Logic “Power disabled” input
- “RPC” (optional) partial load failure detection
- “DTC” (optional) short circuit or current failure detection
- “DE” (optional) electronic overload protection up to 13x nominal current
- Alarm relay output for fault conditions
- Internal fuse with fuse failure output (on 250A and 600A units)
- DIN-rail mounting (25A to 150A units)
- Panel mounting (250A to 600A units)

Technical Information

General Features

Nominal working voltage:
660Vac
(max. range 20...725Vac)

Nominal frequency:
50/60Hz

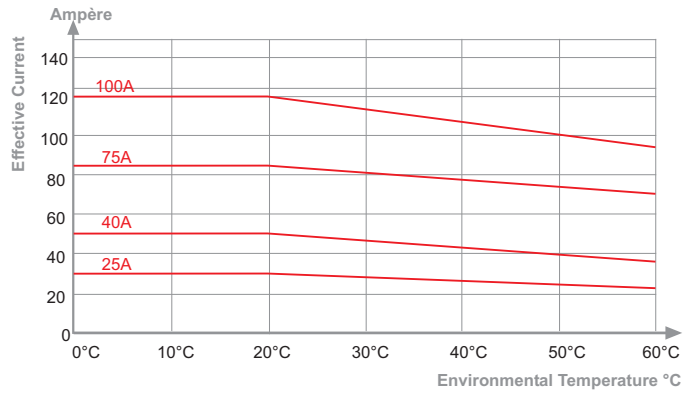
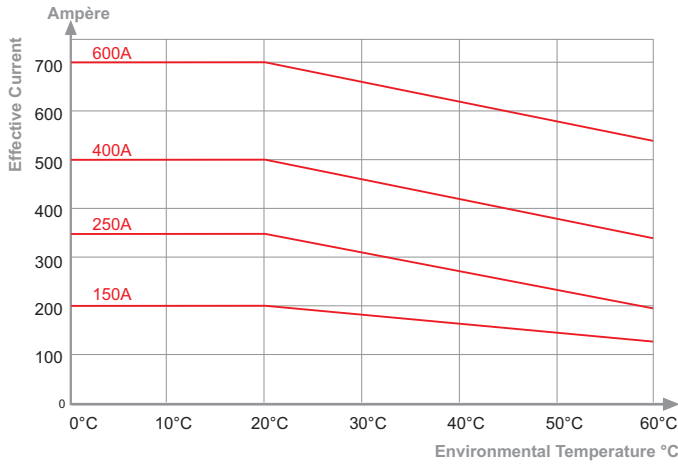
Current Ratings (50°C)

	Repetitive overcurrent (t=1s)	Non-repetitive overcurrent (t=20ms)
25Arms	≤ 74A	≤ 600A
40Arms	≤ 100A	≤ 1500A
75Arms	≤ 180A	≤ 1700A
100Arms	≤ 300A	≤ 4800A
150Arms	≤ 300A	≤ 4800A
250Arms	≤ 450A	≤ 7800A
400Arms	≤ 2000A	≤ 15000A
600Arms	≤ 2000A	≤ 15000A

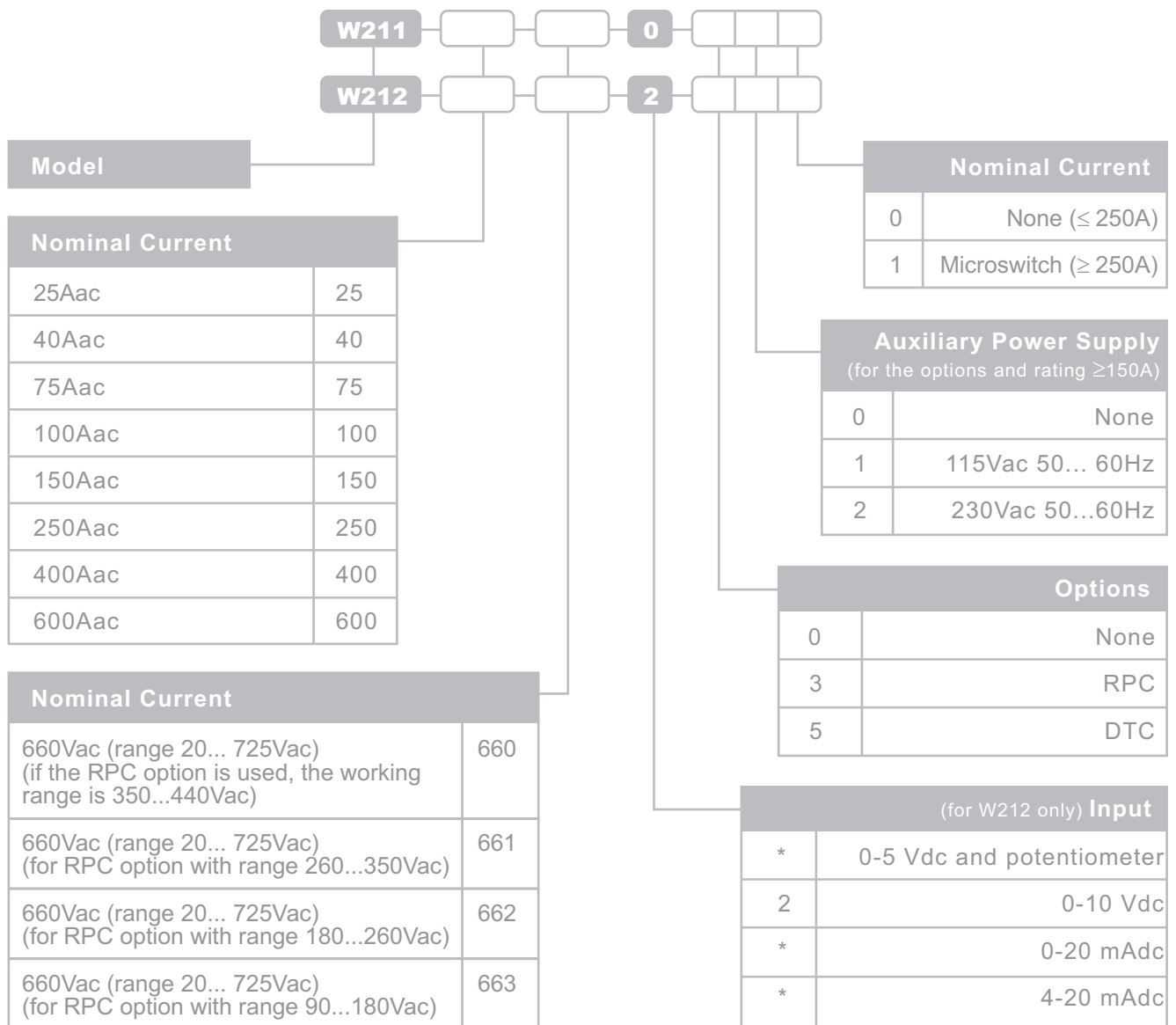
	I ² t for fusing (t=1-10s)	Critical dv/dt with output de-activated
25Arms	1800A ² s	1000V/μs
40Arms	11200A ² s	1000V/μs
75Arms	14450A ² s	1000V/μs
100Arms	86200A ² s	1000V/μs
150Arms	86200A ² s	1000V/μs
250Arms	200000A ² s	1000V/μs
400Arms	1125000A ² s	500V/μs
600Arms	1125000A ² s	500V/μs



Temperature Derating Curves



Order code and options



(*) Selectable by Dip-Switches