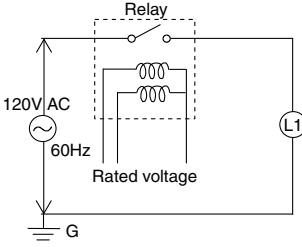
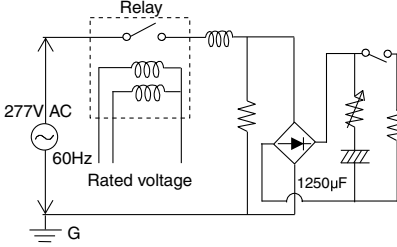
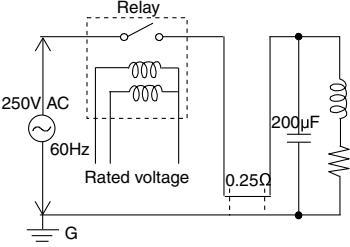
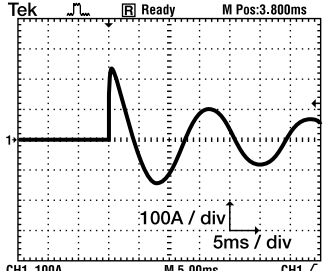
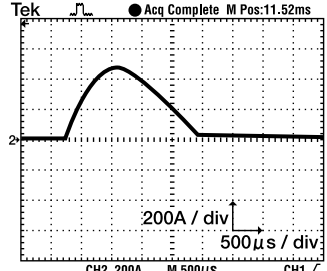
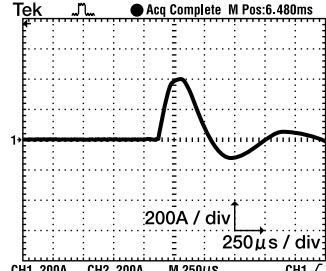
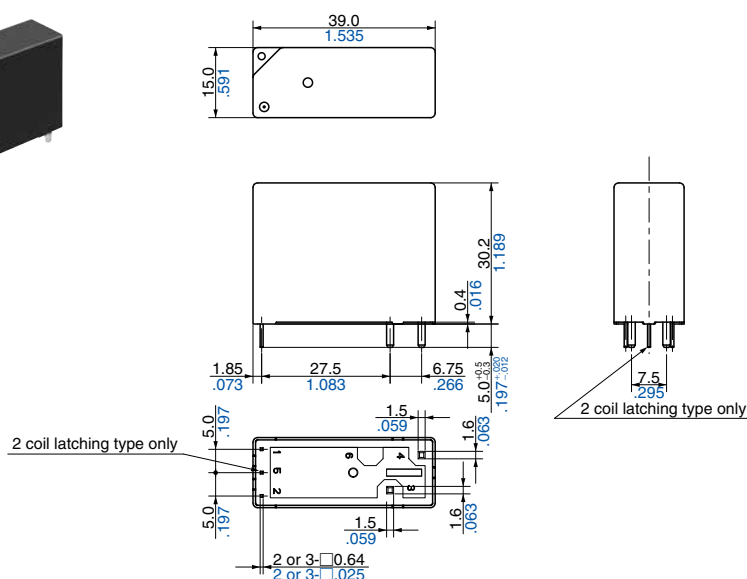
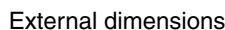


## 4. Inrush load (Electrical life diagram)

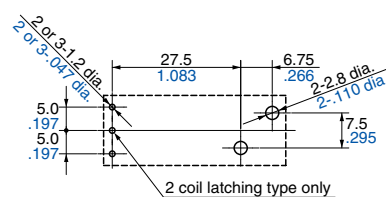
| Load               | Tungsten                                                                          | Electronic ballast                                                                 | Capacitive (IEC 60669-1)                                                            |
|--------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Switching capacity | 2,400W 120V AC                                                                    | 20A 277V AC                                                                        | 20A 250V AC 200 $\mu$ F                                                             |
| Load voltage       | 120V AC (60Hz)                                                                    | 277V AC (60Hz)                                                                     | 250V AC (60Hz)                                                                      |
| Load current       | Inrush 250A <sub>O-P</sub><br>Steady-state 20Arms                                 | Inrush 480A <sub>O-P</sub><br>Steady-state 16Arms                                  | Inrush 400A <sub>O-P</sub><br>Steady-state 20Arms                                   |
| Circuit            |  |  |  |
| Current waveform   |  |  |  |

## CAD



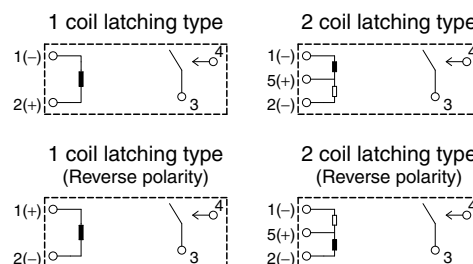
General tolerance:  $\pm 0.3 \pm .012$

PC board pattern (Bottom view)

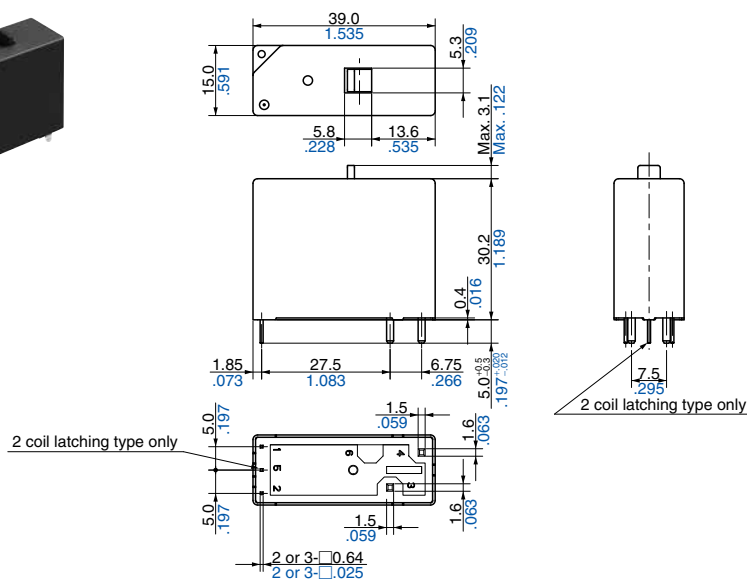
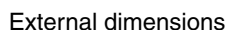


Tolerance:  $\pm 0.1$   $\pm .004$

Schematic (Bottom view)

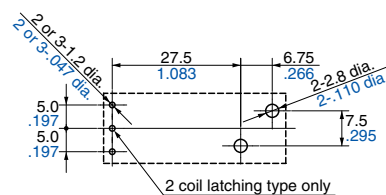


CAD



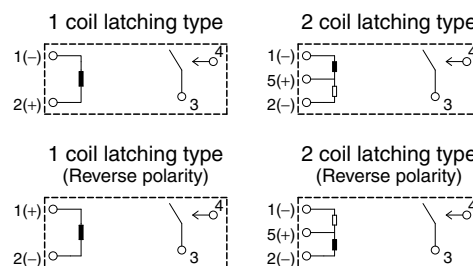
General tolerance:  $\pm 0.3 \pm .012$

PC board pattern (Bottom view)



Tolerance:  $\pm 0.1$   $\pm .004$

Schematic (Bottom view)



| UL/C-UL (Recognized) |                                                               |                       |             | VDE      |                                                       |                     |             |
|----------------------|---------------------------------------------------------------|-----------------------|-------------|----------|-------------------------------------------------------|---------------------|-------------|
| File No.             | Contact rating                                                | Cycles                | Temperature | File No. | Contact rating                                        | Cycles              | Temperature |
| E43149               | 50A 277V AC Resistive                                         | 10 <sup>4</sup>       | 85°C 185°F  | 40045659 | 50A 250V AC (cosφ=1.0)                                | 10 <sup>4</sup>     | 85°C 185°F  |
|                      | 40A 347V AC Resistive                                         | 2 × 10 <sup>4</sup>   | 40°C 104°F  |          |                                                       |                     |             |
|                      | 30A 480V AC Resistive                                         | 2 × 10 <sup>4</sup>   | 40°C 104°F  |          |                                                       |                     |             |
|                      | 20A 347V AC Electronic ballast<br>(1 coil latching type only) | 6 × 10 <sup>3</sup>   | —           |          | 25A 250V AC (cosφ=1.0)                                | 9 × 10 <sup>4</sup> | 40°C 104°F  |
|                      | 20A 277V AC Electronic ballast                                | 6 × 10 <sup>3</sup>   | 85°C 185°F  |          |                                                       |                     |             |
|                      | 20A 277V AC Standard ballast                                  | 3 × 10 <sup>4</sup>   | 85°C 185°F  |          |                                                       |                     |             |
|                      | 15A 347V AC Standard ballast                                  | 3 × 10 <sup>4</sup>   | 85°C 185°F  |          |                                                       |                     |             |
|                      | 5.540W 277V AC Tunsten                                        | 2.5 × 10 <sup>4</sup> | 40°C 104°F  |          |                                                       |                     |             |
|                      |                                                               |                       |             |          | 20A 250V AC Capacitor 200μF<br>(IEC60669-1 compliant) | 5 × 10 <sup>3</sup> | 40°C 104°F  |