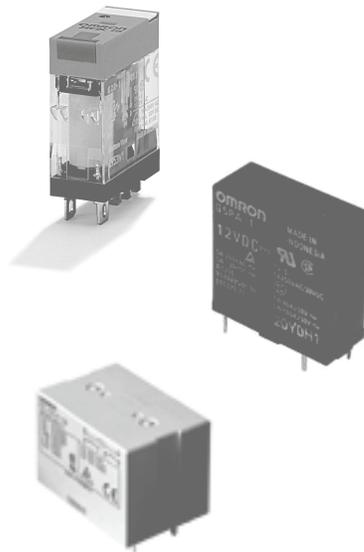


Omron TV Rated Relays



UL TV Ratings were born in 1970 as a means to insure TV Circuitry could withstand the harsh inrush current encountered when turning on and off televisions. The idea was to prevent the circuitry from sparking. Previous to these ratings, televisions were susceptible to catching on fire.

Typically, a relay being tested for UL TV Rating sees an Inrush Load 10 times that of steady state current at 120VAC. For example, a relay receiving TV-3 Rating sees approx. 30A Inrush for a very short duration @ 120VAC and settles to a steady state current of 3A, 120VAC before cycling off. Relays must operate successfully for 25,000 cycles of TV Load Testing to receive a UL TV Rating.

Applications where TV Ratings are important:
Televisions
Audio Equipment
Ballasts

Below is a list of Omron Relay Types that have TV Ratings assigned to them:

<u>TV Rating</u>	<u>Omron Relay Type having this rating</u>
TV-3	G2R-1, G2R-2, G2R-1-T, G2RS(S) (NO Contact applies for all G2R Types shown above) Bifurcated "Z" type does not have TV-3 Rating
TV-4	G5PA-2
TV-5	G2R-1(A)(4)-ASI, G2R-1(A)-E-ASI, G4W-2212P,
TV-5	G4W-2214P-US-TV5, G5PA-1, G5RL-HR,
TV-5	G5RL-LN, G6C, G8P-1A4P-TV5
TV-8	G2R-1(A)-TV8-ASI, G2R-1(A)-E-TV8-ASI,
TV-8	G4W-111(2)(4)P-US-TV8, G5PA-1-M-E, G7L-2A
TV-10	G7L-1A

Please note there are some special exceptions that will apply to the list above. Also, it is possible to get TV Ratings for additional Omron Relay Types not shown above.