



Power relays for high inrush currents

CHI14 / CHI34



Power relay

- Reduces inrush currents up to 800 A by more than 80% thanks to tungsten lead-in contact and zero-voltage switching
- Ideal for electronic ballasts, switching power supplies and LED drivers
- Flexible use thanks to wide voltage input from 24 to 240 V AC/DC
- Low-noise switching for applications in sensitive environments
- Simplified commissioning and maintenance with auxiliary contact and manual operation on the CHI34

Technical data		CHI14/UC24-240V	CHI34/UC24-240V
	Number of contacts	1 NO	3 NO
	Number of auxiliary contacts	–	1 NO
	Contact material	AgSnO ₂ + W	
	Switching current I _{TH}	16 A	
	Inrush current	800 A / 200 μs 165 A / 20 ms	
	Switching voltage	250 V	
	Recommended minimum load	100 mA / 12 V	
Electrical life cycles AC-1 (cycles)	5 x 10 ⁶		
	Nominal voltage	AC/DC 24 ... 250 V	
	Coil voltage	AC/DC 16.8 V ... 250 V	
	Power consumption	AC: ≤ 1.2 VA DC: ≤ 430 mW	AC: ≤ 3.5 VA DC: ≤ 3.5 W

The **CHI14** and **CHI34** power relays are designed for applications with high inrush currents. They are particularly suitable for electronic ballasts, switching power supplies, and LED drivers, where inrush currents of up to 250 times the rated current can occur.

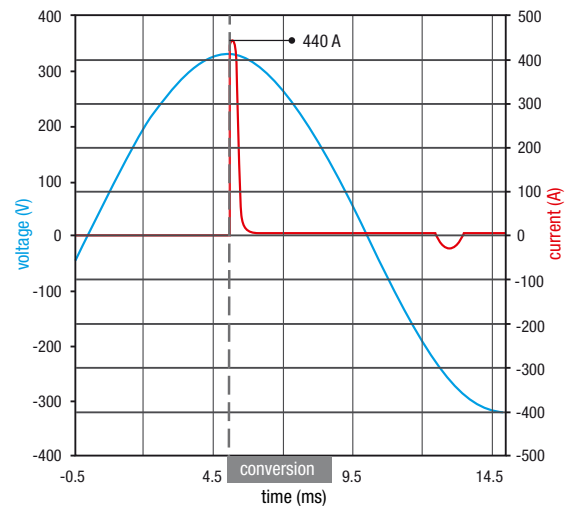
A **tungsten pre-contact** in combination with a **zero-voltage circuit** reduces the inrush current by more than 80% and contributes significantly to protecting the connected components and thus extending the service life of the system.

Thanks to the wide voltage input range of 24 to 240 V AC/DC, the relays can be used flexibly in a variety of applications. **Low-noise switching** supports reliable operation even in sensitive environments.

The **CHI34** also features an **auxiliary contact** and manual override. These functions facilitate service, commissioning, and diagnostics directly on site.

Standard relay with zero-voltage switching

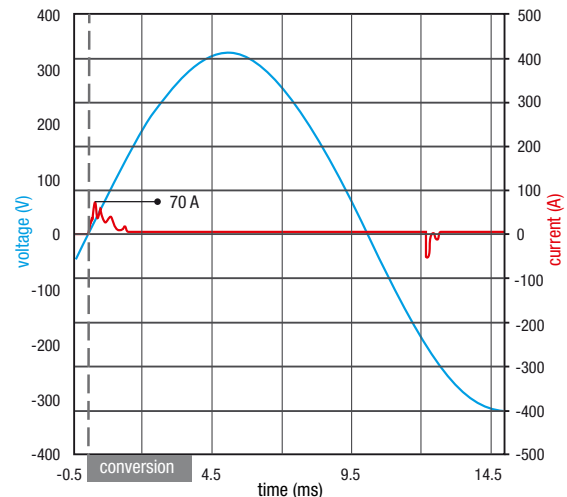
Switching fluorescent lamps with electronic ballasts* via a standard relay.



* Fluorescent lamps with electronic ballasts 2 × 24 W T5

CHI14 with zero voltage switching

Switching the same fluorescent lamps with the CHI14 with zero-voltage switching: >80% less inrush current.



Dimensions

