

H-Tronic SCL 3680 (Model 1114730)

H-Tronic SCL 3680 Inrush Current Limiter User Manual

Model: SCL 3680 (1114730) | Brand: H-Tronic

1. PRODUCT OVERVIEW

The H-Tronic SCL 3680 is an inrush current limiter designed to prevent the tripping of circuit breakers when high-power electrical appliances are switched on. It is a plug-in device that reduces the initial current surge, ensuring stable operation of your electrical system.

- Limits the inrush current of powerful electrical appliances.
- Suitable for 16 A safety circuits.
- Maximum switching operations per minute: 10 (depending on the consumer).
- No function when connecting multiple consumers to the device.
- Integrated temperature monitoring protects against overload.
- **Note:** The SCL 3680 does not support soft start functionality.

2. SAFETY INSTRUCTIONS

Please read and understand all safety instructions before using the H-Tronic SCL 3680. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- This device is intended for indoor use only.
- Do not expose the device to moisture, rain, or extreme temperatures.
- Ensure the device is correctly plugged into a grounded wall socket.
- Only connect one appliance to the inrush current limiter at a time. Connecting multiple devices may cause malfunction or damage.
- Do not exceed the maximum load capacity of 3680 W (16 A).
- If the device shows signs of damage, do not use it. Contact qualified personnel for repair.
- Keep out of reach of children.

- Disconnect the device from the power supply before cleaning or if it will not be used for an extended period.

3. SETUP

Follow these steps to set up your H-Tronic SCL 3680 Inrush Current Limiter:

1. **Insert into Wall Socket:** Plug the SCL 3680 directly into a standard 230V wall socket.
2. **Connect Appliance:** Ensure the high-power electrical appliance (e.g., angle grinder, circular saw, compressor) is switched off. Then, plug the appliance's power cord into the socket of the SCL 3680.
3. **Power On:** Switch on the connected appliance. The SCL 3680 will automatically limit the inrush current, preventing the circuit breaker from tripping.

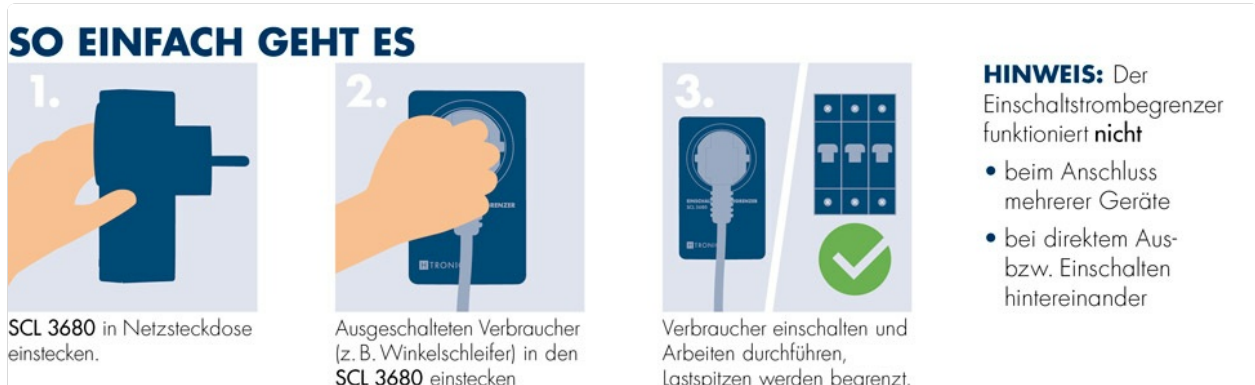


Figure 3.1: Setup steps for the H-Tronic SCL 3680. First, plug the limiter into the wall. Second, plug your appliance into the limiter. Third, turn on your appliance.

4. OPERATION

Once properly set up, the H-Tronic SCL 3680 operates automatically. When you switch on a connected high-power appliance, the limiter will momentarily reduce the initial current surge. This prevents the sudden high demand from tripping your household's 16 A circuit breakers. The device is designed for intermittent use with appliances that have high starting currents.

The integrated temperature monitoring system ensures the device operates within safe limits, protecting it from potential damage due to excessive heat build-up during operation.

5. MAINTENANCE

The H-Tronic SCL 3680 requires minimal maintenance to ensure its longevity and proper function.

- **Cleaning:** Disconnect the device from the power supply before cleaning. Use a dry, soft cloth to wipe the exterior. Do not use abrasive cleaners or solvents.
- **Inspection:** Periodically inspect the device for any signs of physical damage, such as cracks in the casing or bent plug pins. If damage is found, discontinue use and replace the device.
- **Storage:** When not in use, store the device in a cool, dry place away from direct sunlight and moisture.

6. TROUBLESHOOTING

If you encounter issues with your H-Tronic SCL 3680, refer to the following troubleshooting guide:

- **Appliance still trips circuit breaker:**

- Ensure only one appliance is connected to the SCL 3680. The device is not designed for multiple consumers.
- Verify that the connected appliance's power consumption does not exceed the SCL 3680's maximum capacity (3680 W / 16 A).
- Check if the circuit breaker itself is faulty or if there are other issues with your electrical installation.
- Allow a brief pause (a few seconds) between switching the appliance off and on again, especially for appliances with very high inrush currents.

- **Device does not power on / no current flow:**

- Check if the wall socket is functional by plugging in another device.
- Inspect the SCL 3680 for visible damage. If damaged, do not use.

- **Device feels warm during operation:**

- Some warmth is normal due to the internal components. However, if it becomes excessively hot or emits smoke/unusual odors, immediately disconnect it from the power supply and discontinue use. This indicates a potential fault.

7. SPECIFICATIONS

Feature	Specification
Brand	H-Tronic
Manufacturer	H-Tronic
Model Number	1114730
Voltage	230 Volt
Max Current	16 Ampere
Max Power	3680 Watt
Number of Sockets	1
Plug Type	Type F - 2-pin (German) / Type E or Type F
Special Features	Integrated Temperature Monitoring
Recommended Applications	High-power tool operation (e.g., angle grinders, circular saws, compressors, pumps, drills)
Product Dimensions	4.1 x 5.9 x 9.8 cm
Weight	230 g
Color	Multi-color (typically black)
First Available Date	May 17, 2022

8. PRODUCT MEDIA

Images





Front view of the H-Tronic SCL 3680 Inrush Current Limiter.



Side view of the H-Tronic SCL 3680, highlighting the plug.

SCL 3680 next to a circuit breaker, demonstrating its function.



SCL 3680 in use with an angle grinder.

ANWENDUNGSBEREICHE

KREISSÄGEN	PUMPEN
WINKEL-SCHLEIFER	KOM-PRESSOREN
BOHR-MASCHINEN	

LIEFERUMFANG

SCL 3680
Einschaltstrombegrenzer für die 230 V-Netz-
schaltung. Nennleistung: max. 3680 VA, geeignet
für Haushalts-Stromkreise mit 16 A-Absicherung.

Abmessungen:
98 x 29 x 41 mm (ohne Stecker).
Steckerseite

Application areas for the SCL 3680.

Videos

No official product videos are available for this specific H-Tronic SCL 3680 model.

9. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the documentation included with your purchase or visit the official H-Tronic website. Keep your proof of purchase for warranty claims.