



HIGH VOLTAGE CONTACTOR

Series 60

Power Switching in KISSLING Quality

The ongoing electrification in the automotive and special vehicle industry leads to new requirements for manufacturers of electric components. To achieve power levels similar to modern combustion engines in an electric vehicle, high voltage drive systems are unavoidable. Unfortunately, high voltages also cause switching arc problems when separating electric loads – which, if not handled properly can destroy switching contacts and shorten the switch life or even cause safety critical failures.

Maximum Safety

The KISSLING high voltage contactor is optimized to meet the needs of the electric vehicle market and KISSLING is the first manufacturer worldwide, to offer relays and manual switches based on a non-gas-filled ceramic contact chamber. By avoiding the use of special gases in the contact chamber, we also avoid the risk of gas leaks, which would jeopardize the safe operational functionality of the switch. The biggest challenge for manufacturers is to minimize the burn time of the switching arc.

KISSLING has met this challenge with unique combination of blow out magnet positioning and ceramic chamber geometry coupled with a highly dynamic and efficient propulsion system.

This combination of innovative design characteristics ensures a first-class product lifecycle.

Features

- Without gas filling
- Overload up to 500 Amp
- Integrated PWM electronic controlling
- Contact voltage ≤ 800 VDC
- EMC E1 approval

Applications

- Electric vehicles
- Industrial vehicles
- Military vehicles

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HV Relay

The high voltage contactor also offers additional integrated electronic functions for coil control and electronics status output, in a package that effectively combines KISSLING first-class reliability with improved ease-of-use and customer-friendly installation.

Features

- Main contacts designed for continuous load and 100% duty cycle
- Up to 200.000 switching cycles at rated load
- Minimum 2 million mechanical operations
- Integrated PWM electronics for reduced coil control requirements, 9-16 VDC and 18-32 VDC
- Maximum voltage range of up to ≤ 800 VDC
- Maximum safety even with emergency shutdowns under overload up to 750 VDC
- Temperature resistant from -40°C to $+85^{\circ}\text{C}$ ambient temperature
- Efficient coil and magnetic field design with optimal switching characteristics and minimal holding current requirements
- Powerless control input for direct connection to an ECU
- Electronic status output

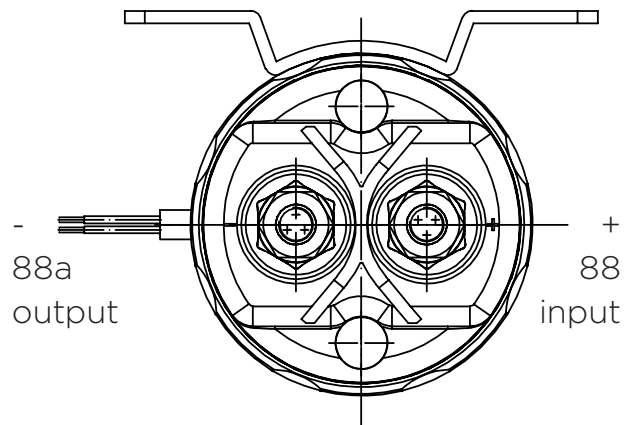
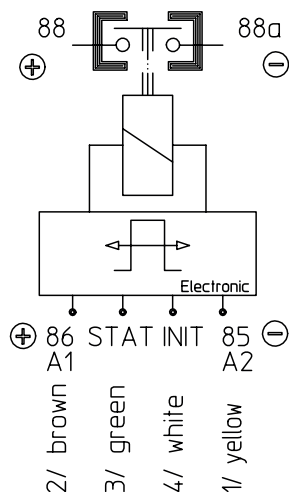
Ordering Information

Description	Part Number
Series 60 /// 9-16 VDC	60-311-11
Series 60 /// 18-32 VDC	60-311-12

Specification

Technical Data

Temparture range	-40°C to $+85^{\circ}\text{C}$
Shock	6g / 11 msec
Protection	IP 67 / IP6K9K
Max. Voltage range	≤ 800 VDC
Continuous current	300 A
Switching voltage range	up to 750 VDC

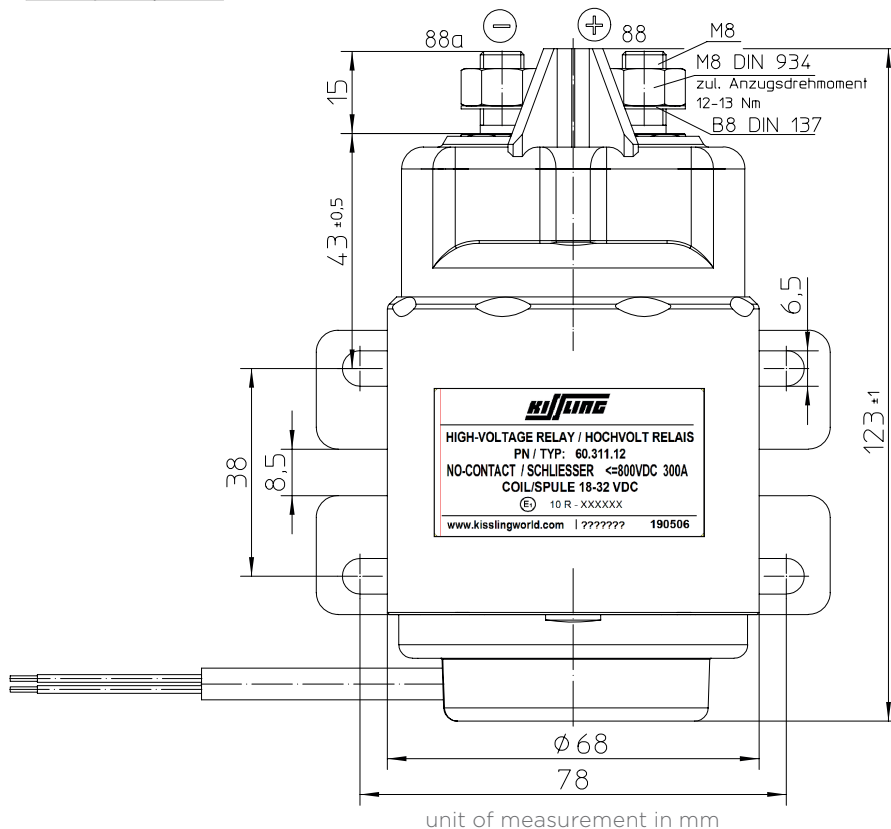
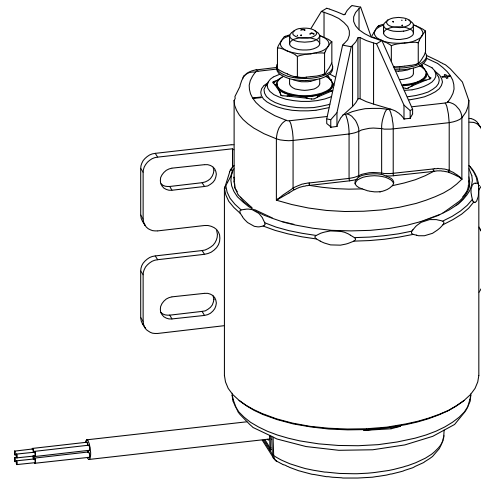
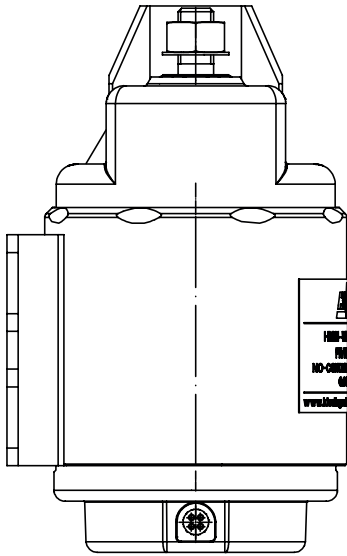


* for bidirektional application please contact engineering

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Ordering Information



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