EC-No.

Technical Data

Application and basic function

Controlled switch-ON/OFF of the on-board power supply in commercial vehicles.

This device integrates the basic of a monostable two coil featuring for a strong pull in and an economical holding. The electronic-unit takes over the relay-control,

the evaluation for current monitoring,

the main-contact-control and other control-functions.

General Data

Temperature range40°C to +85°C Storage temperature46°C to +95°C (95°C for 2h)
Interior protectionIP67(0,2 bar-1 min) and IP6K9K after IEC529 and DIN 40 050 T9 Terminal protectionIPP00/ IEC529 and DIN 40 050 T9
Vibration 4 g/ 50-2000 Hz Shock 6 g/ 11 msec after ISO 16750 for road vehicles
Resistanceagainst most oils, hydraulic fluids, fuels, alcohol, fire-extinguishing agents, battery acid, salt spray, injurious gas, cleaning agents, humidity, alternating temperature
Mounting position optional Weight approx. 890 gr

Operational Characteristics

Overcurrent:

When the starter signal input is HIGH the current monitoring should be ignored for 12sec then if still HIGH dropout, irrelevant of the current load.

Without starter signal and current level >300A and >100msec then dropout.

Undervoltage:

No relay ON switching is possible in undervoltage condition: @12VDC: UNDERVOLTAGE_BARRIER_9V

NO relay OFF-switching in undervoltage condition from the electronic side is programmed.

Signals:	potential (function):	pin:
Input ignition supply Output negative trigger Output warning light Battery negative	Highside (ignore current) Highside (ON-OFF-switching) Lowside (switching a minus signal) Highside (switching a plus signal) B-	2 3 4 5
	B+	

Electrical Data

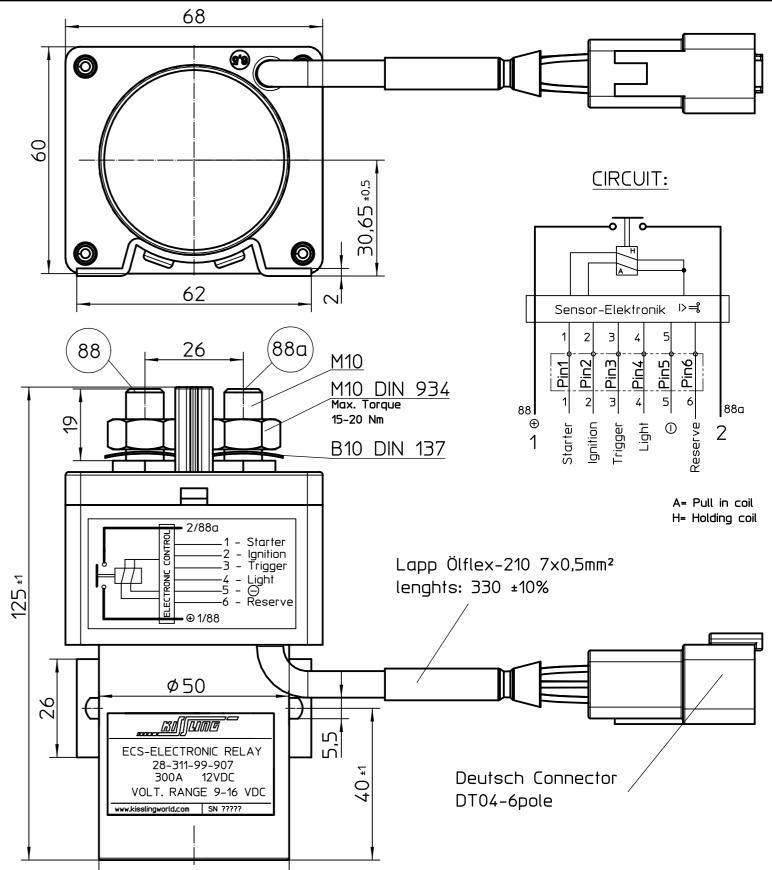
Nominal voltageVoltage range	
Spikes Min. operational voltage	70 VDC for 2 msec
Overvoltage	
Min. Insulation resistance After live or environmental Dielectric withstanding voltag	50 MOhm

Relay Data

3000A for 1 sec,	
A resistive load	

Contact drop (at 300A duty rating)...... .150 mVDC Contact drop after life test.....

Resistance Pull in coil... approx. 1,9 Ohms ±10% Pull in current max......6A for 20 msec Resistance Holding coil... approx. 40 Ohms ±10% Holding current max..... ...max. 0,4A





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