KISSLING AUTOMATIC BATTERY CUT-OFF RELAY

Series 88 - from TE Connectivity (TE)

The intelligent KISSLING Battery Cut-off Relay has been developed to switch the vehicle-on-board network as an independent control unit on and off. The integrated electronics monitor the vehicle's onboard network and in addition, it controls the relay and specific functions.

The integrated electronics, processing the analog control inputs individually and convert them into the control commands required. The integrated coil economizer always reduces the holding current to an optimum current ratio. The main contacts are continuously monitored to quickly detect switching operations or faults, as well as prevent faulty operating conditions.

The control unit receives various information through the control inputs as well as the voltage levels of the two main contacts. These signals are provided digitally by LIN, CAN or J1939.

Features

- Sealed housing conforms to IP6K9K
- switch vehicle on board network
- Variety of different signal
- 6g shock and 4g vibration resistant

Applications

- Commercial vehicles
- Bus
- Lift truck
- Ground support equipment
- Construction and agricultural vehicles

Specification

Technical Data

Temperature range	-40°C to +85°C
Protection	IP6K9K (DIN40050-9 and IEC 529.2)
Shock	6g - 11msec
Vibration	4g (50-2000Hz)
Wire section	200A - min 70mm² - AWG 2-0 / 300A - min 95mm² - AWG 4-0
Mounting position	optional
Weight	0,63kg

General Electrical Characteristics

Voltage range	9-32VDC
Nominal voltage	12 / 24VDC
Min. Insulation Resistance	100MΩ
After llve or environmental	50MΩ
Dielectric withstanding voltage	1050VAC / 1min
Max. Contact drop, initial	150mV
Contact drop after life test	175mV

Coil data - monostable

Pull in coil	1,6A for 100ms
Holding current	100mA
Contact operate	200msec
Contact bounce	max. 5msec
Contact release	max. 10msec

Coil data - bistable	12VDC	24VDC
Voltage range	9-16VDC	16-32VDC
Nominal voltage	12VDC	24VDC
Min. operational voltage	9VDC	16VDC
Over voltage	18VDC - 1h	36VDC - 1h
Pull in coil approx.	6,6A	3,0A
Drop out coil approx.	6.0A	2,8A
Operate	max. 15msec	
Bounce	max. 5msec	
Release	max. 10msec	
Quiescent current	< 300µA	

Rated contact load	200A	300A
Resistive load	50.000 cycles - 200A	50.000 cycles - 300A
Mechanical Life	100.000 cycles	100.000 cycles
Continuous current	200A	300A
Overload	1600 A - 1 sec / 400 A - 20 sec	2400 A - 1 sec / 600 A - 20 sec

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