BODY ELECTRONICS: MOTOBREAKER 2.0

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The new full-electronic battery breaker MOTOBREAKER 2.0 is intended for use in commercial vehicles and construction equipment.

MOTOBREAKER 2.0 is used to monitor the main power supply and protects your vehicle from overheating as well as from overcurrent.

While "simple" electronic battery breakers input signals over a mechanical relay, the full-electronic battery breaker do that without mechanical relays. They switch circuit wearlessly over power semiconductor and achieve therefore a significant higher amount of make-and-break cycles.

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The improved MOTOBREAKER 2.0 provides following additional advantages:

1. Greater safety with less wiring

Until now the make contact of the first-generation MOTOBREAKER had to be protected by routing the control line that switched on the MOTOBREAKER via the vehicle's fuse box. To reduce the wiring while simultaneously improving safety, we have incorporated a voltage output in the 4-pin plug of the MOTOBREAKER 2.0. This is connected to the battery in the MOTOBREAKER 2.0 on the primary side and is short-circuit-proof. This allows the MOTOBREAKER 2.0 to be switched directly off and on without any additional wiring, so managing without extra fuses.

2. Greater flexibility and stability on installation

To save space and make both installation and contacting of the MOTOBREAKER 2.0 more flexible for the various applications we have now replaced the threaded bolt by a second bore. This now allows the MOTOBREAKER 2.0 to be secured using two M10 bolts. This design improvement also results in greater stability.

Electrical specifications

Voltage range:	5 – 32 V
Nominal voltage:	12 V / 24 V
Temperature range:	-40 °C up to +85°C
Continuous current:	165 A at max. 85°C (960 min.)
Power pulse current:	1.800 A / 100 ms at 25°C
Standby-current:	max. 120 µA at 25°C
Contact resistance:	typ. 0.42 mOhm at 25°C

Electrical connection

Main connector:	bore ø 10,5 mm
Control cable:	4 pin. Super-Seal (manufacturer: Tyco)

Case (potted case)

Type of protection:	IP6K9K (DIN 40050)

Connector pin assignment of control cable

PIN1:	control contact
PIN 2:	holding contact
PIN 3:	ground
PIN 4:	steady plus

Installation

Place of installation:	positive cable of the vehicle
Part No.	670.502.1002

All data subject to technical changes. 10/2011

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