

External commutation electronics

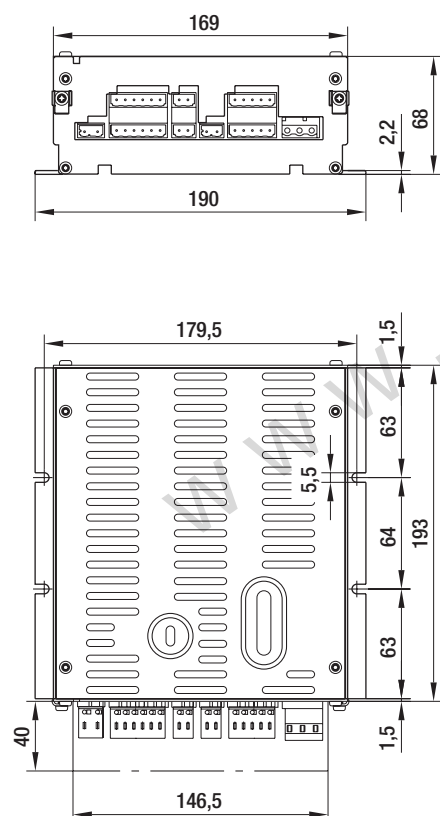
for rail technology, 110 VDC, 650 W



- **General remarks:** For EC motors / fans with three cores and without integrated commutation electronics
- **Function:** Commutation unit for three-core ebm EC motors up to a power input of 650 W. Various basic functions are integrated: open loop speed control, closed loop speed control, even an RS485 interface. In combination with sensors, all control tasks as required in air technology can be executed.
- **Protection class:** I
- **Type of protection:** IP 20 (acc. to DIN EN 60529)
- **NB:** Connected fans have to be designed for rated voltage of 127 VDC!

Nominal data	Nominal voltage	Power input P ₁ max.	Current draw	Perm. amb. temp.	Mass
Type	VDC	W	A	°C	kg
CEG 485-HB50 -01	110	650	5.9	-25 to +40	2.0

subject to alterations



- **EMC / EMI:** Acc. to EN 50155 and EN 50121
- **Legislation:** Low voltage directive 73/23/EEC, VDE 0160/EN 50178
- **Design:**
 - motor output protected against short circuit phase to phase and conditionally phase to earth
 - 0-10 V input (Ri: 100 kΩ)
 - 0-10 V input (Ri: 100 kΩ) for connection of external actual value input
 - RS485 interface (ebmBUS)
 - Floating alarm contact 250 VAC / 5A, during alarm, relay is released (low-active)
 - Wide voltage input for external controller enabling via RESET function
 - Tach output
 - LED for operation and alarm mode
green: unit on
red: alarm
 - Setting of minimum and maximum values via potentiometer
 - Operational modes (to be set via DIP switch):
Open loop speed control
Closed loop speed control
Controlling external parameters
 - Direction of motor rotation reversible
- **Connectors for external electronics:**
 - KL1 2-pole connector; centreline 7.5; Co. Wago part no.: 231-202/026-000
 - KL2A 6-pole connector; centreline 5; Co. Wago part no.: 231-106/026-000
 - KL2B 6-pole connector; centreline 5; Co. Wago part no.: 231-106/026-000
 - KL3A 2-pole connector; centreline 5; Co. Wago part no.: 231-102/026-000
 - KL3B 2-pole connector; centreline 5; Co. Wago part no.: 231-102/026-000
 - KL4 2-pole connector; centreline 5; Co. Wago part no.: 231-102/026-000
 - KL5A 5-pole connector; centreline 5; Co. Wago part no.: 231-105/026-000
 - KL5B 5-pole connector; centreline 5; Co. Wago part no.: 231-105/026-000
 - KL6 3-pole connector; centreline 7.5; Co. Wago part no.: 731-603