

## Converter CC-32-100

Converter for driving permanent-magnet synchronous motors (PMSM) and brushless DC motors (BLDC).

- Sensorless speed control from 1,000 rpm up to 80,000 rpm
- Maximum output power of 100 W
- Torque- and speed-control
- Highest efficiency
- User definable setup for different motor parameters
- User-friendly PC control software



### Specifications

Input voltage $U_{in}$ (DC)	24 – 32 V
Maximum output power	100 W
Output voltage (peak value phase-phase)	0 – 0.95 $U_{in}$
Maximum phase current (PAM-operation)	4.7 Arms / 6.6 Apeak <sup>1</sup>
Maximum frequency / speed	1.33 kHz / 80,000 rpm
Operating range	4-Quadrant
Communication interface	USB, UART (LVTTTL 3.3 V)
PC control software	CC-32-100 Controller
Weight	20 g
Dimensions	69.3 x 38 x 8.1 mm
Operating temperature	0 – 40 °C

<sup>1</sup> Fundamental of the PAM-block current

## User interfaces (X1, X2)

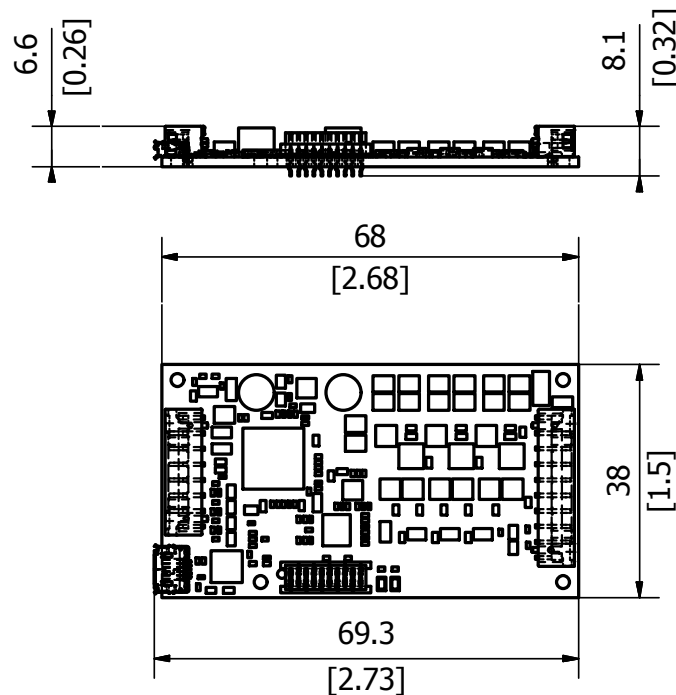
### Connector X1 – I/O interface (6 pins)

1 x digital outputs	LVTTL 3.3 V
2 x digital inputs	LVTTL 3.3 V
1 x analog input	0 – 10 V
1 x GND	
1 x power supply	10 V, 100 mA

### Connector X2 – I/O interface (8 Pins)

1 x input voltage	24 – 32 V
2 x GND	
2 x UART	RX, TX
3 x Motor phase	PHA, PHB, PHC

### Drawing in mm [inch]



Order codes: CC-32-100.Cxx

### connector configuration (X1, X2) Cxx

C01	horizontal
C02	vertical

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