

CC-120-1000



Summary

- Converter for driving permanent-magnet synchronous motors (PMSM) and brushless DC motors (BLDC)
- Wide input voltage range
- Separate voltage supply for startup sequence
- Sensorless speed control from 5,000 rpm up to 500,000 rpm
- User definable setup for different motor parameters
- Protection class IP67
- Rated output power: 1,000 W
- Separate supply for power and digital part
- No output filter required
- Torque and speed control
- 96% efficiency
- Integrated break chopper
- Connection to active and passive cooling (water or air) possible
- Ideal in combination with compressor CT-17-700 or CT-17-700

Specifications

Input voltage U_{in} (dc) ¹	40 – 120 V
Input voltage auxiliary supply U_{in} (dc)	8 – 32 V
Rated output power	1,000 W
Output voltage (peak value phase-phase)	0 – 100 V
Maximum phase current (PAM-operation)	8.5 Arms / 12 A _{peak} ²
Maximum frequency / speed (PAM-operation)	8.3 kHz / 500,000 rpm
Operating range motor	4-Quadrant
Communication interface	CAN
Weight (incl. housing)	1.4 kg
Dimensions (L x W x H)	150 x 130 x 45 mm

¹Other voltage areas on request

²Fundamental of the PAM-block current

Interfaces

Connector X1 – in-/output (14 Pin)

3 x CAN interface	CanH, CanL, CanGND
1 x Auxiliary power supply (battery)	8 – 32 V
1 x GND	Reference potential auxiliary supply
3 x Input voltage	40 – 120 V
3 x GND	Reference potential input voltage
3 x PE	Protective earth input

Connector X2 – in-/output (14 Pin)

1 x Temperature measurement input	PT100
1 x GND	Reference potential temperature measurement
3 x Motor phase	PHA, PHB, PHC
3 x PE	Protective earth motor

Contact

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