

## Comparison

# CP4PWM CP6V16








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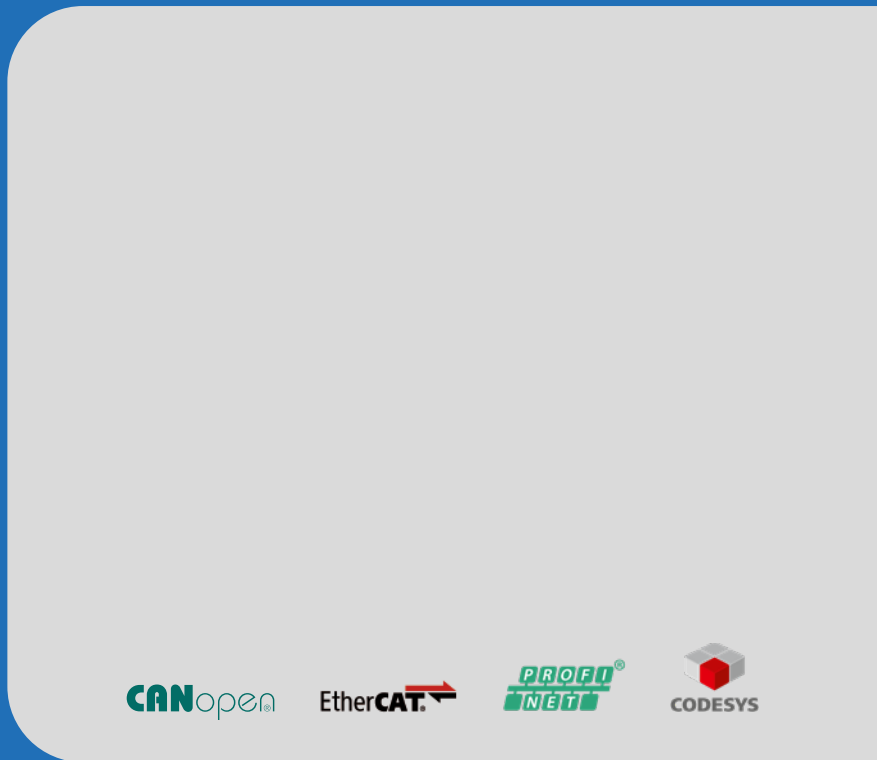


	CP4PWM	CP6V16
<b>POWER</b>		
Separation of the supply voltage to the one applied to the load	✓	—
Supply	110/230 Vac ± 10%, 50/60 Hz	From 100 to 270 Vac, 50/60 Hz
Maximum power per channel	600 W (350W if all 4 channels are active) Max system power out 1.4 kW @ 230 Vac, 700 W @ 110 Vac	450 W
Limitation of the inrush current	Electronic control 5Apk @230Vac x 60ms	Fuse
<b>POWER FACTOR CORRECTOR</b>		
This function allows: <ul style="list-style-type: none"> <li>• a reduction of the consumptions due to the use of a system internal DC bus</li> <li>• optimization of the load in the network thanks to the reactive power absence</li> </ul>		
Input PFC stage (Power Factor Correction)	✓	—
Power Factor	99,8%	17,5%
Reactive power	~0	Reactive power >> active power
<b>COMMAND OF THE VIBRATING SYSTEM ELECTROMAGNET</b>		
Adjustable command signal frequency	✓ Range from 30 Hz to 70 Hz Adjustable with period resolution of 0,1 ms and independent for each channel	— Fixed to the supply network frequency
Automatic vibrating system resonance frequency research	✓	—
Reactive power	✓	— Depends on the supply network voltage and on the used load
Load command technology	Maximum impressed voltage 400 Vpk with current control PWM at 10 kHz	Phase partialization. Triac trigger phase angle control
Load inductance range	From 100 mH to 8 H	From 500 mH to 1,5 H
Overcurrent protection	Electronic control	Fuse
Diagnostics	Short-circuit, interrupted wire, inductance out-of-range	Interrupted wire and too high inductance
Monitoring	RMS current and apparent power on the load	—
<b>VIBRATING SYSTEM REGULATION</b>		
Regulations during the installation	Parameters setting and automatic tuning are sufficient	The mechanical regulation is necessary
Regulations during the functioning	Parameters setting and automatic tuning are sufficient	The mechanical regulation is necessary



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<b>FUNCTIONS FOR THE MANAGEMENT OF THE PRODUCT MOVEMENT IN VIBRATING SYSTEM</b>		
Boost start for product detachment	✓	✓
Soft start for start without noises	✓	✓
Vibrator fast stop for product queue reduction	✓	—
<b>COMMUNICATION AND FW UPDATE</b>		
Fieldbus	CANopen	CANopen
Firmware update	From fieldbus	From fieldbus
<b>I/O</b>		
Digital inputs	8 PNP	8 PNP
Digital outputs	8 PNP 24 V 500 mA	8 PNP 24 V 200 mA
Analog inputs	4 of type from 4 to 20 mA	—
Analog outputs	2 of type from 4 to 20 mA	2 of type ±10 Vdc
<b>BOARD HEATING MANAGEMENT</b>		
Fanless	✓	✓
Over temperature electronic protection	✓	—
Temperature monitoring	✓	—
<b>INSTALLATION</b>		
Dimensions (mm)	H 227 x W 73 x D 138	H 125 x W 303 x D 53
Installation	Compact space-saving book design, horizontal or vertical	Flat
<b>COMING SOON (to be defined)</b>		
FW update, configuration and monitoring from PC	Tool on PC	—
Fieldbus	Ethercat, Profinet, MODBUS-TCP	—
Stand-alone functioning	IEC61131 programmability	—
Output frequency range	Extension	—
Wave form	Sine wave and raised-cosine	—
Feedback	Accelerometer acquisition	—

-  MASTER CONTROLLERS
-  BRUSHLESS DRIVES & MOTORS
-  STEPLESS DRIVES & MOTORS
-  PERIPHERALS
-  HMI
-  CUSTOM
-  SOLUTIONS



CANopen

EtherCAT

PROFI  
NET

CODESYS

soga  energyteam

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