Product Catalog

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AAV
INDUSTRIAL GROUP

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Variable Frequency Drive
CM540 | CM300 | CM500

Variable Frequency Drive

Image

CM540-0.75/1.5/4.0KW

CM540-5.5/7.5/11KW

Model	CM540-0.75/1.5/4.0KW	CM540-5.5/7.5/11KW
Dimension L*W*Hmm	118*156*185	247*160*176
Weight	2.0kg	3.7kg
Basic Function		
Maximum frequency	Vector control: 0 ~ 600Hz | V/F control: 0 ~ 3200Hz	
Carrier frequency	0.8kHz ~ 12kHz. The carrier frequency automatically adjusted based on the load features.	
Input frequency resolution	Digital setting: 0.01Hz Analog setting: Maximum frequency ×0.025%	
Control mode	Open-loop vector control (SVC), Closed-loop vector control (FVC), VF control.	
Startup torque	G type: 0.25Hz/150% (SVC), 0Hz/180%(FVC), P type: 0.5Hz/100%	
Speed range	1:200(SVC), 1:1000(FVC)	
Speed stability accuracy	±0.5%(SVC), ±0.02%(FVC)	
Torque control precision	±5% (SVC) (above 10Hz), ±3%(FVC)	
Overload capacity	G type: 150% rated current 60s. 180% rated current 3s. P type: 120% rated current 60s. 150% rated current 3s.	
Torque boost	Automatic torque boost. Manual torque boost 0.1% ~ 30.0%	
V/F curve	Five modes: Straight-line, Multi-points, Square V/F, V/F separation, V/F Semi-separation	
V/F Separation	Two modes: complete separation, semi-separation	
Ramp mode	Straight-line ramp and S-curve ramp. Four kinds of acceleration/deceleration time with the range of 0.0–6500.0s	
DC injection braking	DC braking frequency: 0.00Hz ~ maximum, braking time: 0.0s ~ 36.0s. Braking action current value: 0.0% ~ 100.0%	
Jog control	Jog frequency: 0.00Hz ~ 50.00Hz Jog acceleration and deceleration tome:0.0s ~ 6500.0s	
Simple PLC, multistage speed operation	It implements up to 16 speeds via the simple PLC function or combination of DI terminal states.	
Built-in PID	It can keep constant output voltage automatically when the mains voltage changes.	
Over voltage/Over current loss of speed control	Automatic limit of the current and voltage during the operation, prevent frequent over current and over voltage	
Rapid current limit	Minimizing over-current fault and protect the normal operation of converter.	
Torque limit and control	"Excavator" characteristics, automatic limit of the torque during the operation, to prevent frequent over-current trip. Closed-loop vector mode torque control can be achieved.	

Other models: CM540-15/ 18.5/ 22KW, CM540-30/ 37KW, CM540-45/ 55/ 75KW, CM540-90/ 110KW, CM540-132/ 160/ 185KW, CM540-200/ 220/ 250/ 280KW, CM540-315/ 350KW.
The above models are all iron shells. For detailed dimensions, please contact us
Detail info refer to: Coolmay CM540-Inverter user manual

Variable Frequency Drive

Image

CM300

CM500

Product specifications

Model	CM300	CM500
Maximum frequency	Vector control: 0 ~ 300Hz V/F control: 0 ~ 500Hz (general purpose); 0 ~ 3200Hz (high frequency)	
Carrier frequency	0.5kHz ~ 16kHz The carrier frequency can be automatically adjusted according to the load characteristics.	
Input frequency resolution	Digital setting: 0.01Hz Analog setting: highest frequency•0.025%	
control method	Open loop vector control (SVC) Closed loop vector control (FVC) V/F control	
Startup torque	0.5Hz/150% (SVC); 0Hz/180% (FVC)	
Speed range	1:100 (SVC) 1:1000 (FVC)	
Speed stability accuracy	±0.5% (SVC) ±0.02% (FVC)	
Torque control accuracy	±5% (FVC)	
Overload capacity	G type machine: 150% rated current 60s; 180% rated current 3s.	
Torque boost	P type machine: 120% rated current 60s; 150% rated current 3s.	
V/F curve	Automatic torque boost; manual torque boost 0.1% ~ 30.0%	
V/F separation	Three methods: linear type; multi-point type; N-th power V/F curve	
Acceleration and deceleration curve	Linear or S-curve acceleration and deceleration mode. Four kinds of acceleration and deceleration time 0.0 ~ 6500.0s	
Jog control	Braking current value: 0.0% ~ 100.0%	
Simple PLC, multistage speed operation	Jog frequency range: 0.00Hz ~ 50.00Hz. Jog acceleration/deceleration time is 0.0s ~ 6500.0s.	
Built-in PID	Through the built-in simple PLC or control terminal to achieve up to 16-speed operation	
Automatic voltage adjustment (AVR)	It is convenient to realize the process control closed-loop control system	
Over voltage and over current stall speed control	When the grid voltage changes, it can automatically keep the output voltage constant	
Rapid current limit	Minimize over-current faults to protect the normal operation of the inverter	
Torque limit and control	The "shovel" feature automatically limits the torque during operation to prevent frequent over-current trips; closed-loop vector mode can realize torque control	

Other models: CM300-0R4GS2, CM300-R75GS2, CM300-R75GT4, CM500-R75GT4, CM500-3R7G/5R5PT4, CM500-R75GT2, etc.
For detailed dimensions and models, please contact us
Detail info refer to: Coolmay CM500-Inverter user manual

Power supply

Image

CM6024	L02-60P	L02-100P	CG36-24	CG60-24	CG100-24

Product specifications

product type	CM6024	L02-60P	L02-100P	CG36-24	CG60-24	CG100-24
Installation method	Standard guide rail installation and can be installed on NS35/7.5 or NS35 guide slot					
Appearance size	92*66*35mm	90*77*36mm		90*36*59mm	90*52*59mm	990*70*69mm
Wiring method	5P-7.62Fence terminal	6P-5.08Bent plug closed press type terminal		3P/2P- 5.0 Screw terminal	3P/4P-5.0 screw terminal	
input voltage	100~240VAC					
Input frequency	50/60Hz					
output voltage	DC24V					
Output current	2.5A	2A	4.15A		2.5A	4.2A
Impulse current	30A/230VAC					
surge current				≤100A/230VAC	≤150A/Input 115/230VAC	
Output accuracy	±1%					±0.5%
Output efficiency	86%	86%	88%	87.4%	88%	88%
Empty load consumption	< 0.5W	8.5W	5.7W	≤0.1W	≤0.21W	≤0.21W
working temperature	-20℃~70℃, 25-75%					
Storage temperature	-20℃~80℃, 10-95%					
Protection function	Short circuit/overvoltage/overload protection					

Gateway Module CM-BG200

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BG200

Product specifications

Model	CM-BG200
Installation	Standard rail installation, can be installed on NS35 \ 7.5 or NS35 guide slots
Dimension	88mm * 75mm * 26mm (excluding antenna and mounting components)
Rated power	<5W
Rated voltage	DC24V ± 10% working voltage
Maximum power consumption	12W
Networking method ①	4G SIM Telecom/Unicom/Mobile
Networking method ②	Ethernet
Networking method ③	Wi-Fi
CPU	580MHz MIPS
Storage	16MB Flash + 128MB DDR2
VPN	support
Ethernet	1 WAN, 1 LAN
Serial port	1 RS232, 1 RS485
working temperature	-10~60℃
ambient humidity	10~90% RH (non condensing)
Related Information: Coolmay Gateway CM-BG200 User Manual V24.31 Version	

Protocols supported by BG200

ce Protocols / Interface	Support or not	485 232	RJ45
Siemens SMART200	yes		√
Mitsubishi FX1/2/3 series	yes	√	
Mitsubishi Q/5U	yes		√
Coolamy's various series PLCs	yes	√	√
MODBUS RTU protocol	yes	√	
MODBUS TCP protocol	yes		√

Cable

Image

Type C Cable

232 programming cable

USB-232 serial port cable

Mini type B usb programming cable

HMI programming cable for 7/10 inch HMI

CX2N PLC download cable

SC-11

Customization

Customization

- MOQ 200pcs
- OEM
- ODM

OEM

ODM

MOQ
200pcs