

CM500 High-performance Inverter

- General flux vector control and automatic tuning function, which can achieve high torque of 150%/1Hz (when slip compensation function is valid)
- The data transmission speed corresponding to the standard RS-485 communication (Mitsubishi inverter protocol, MODBUS RTU protocol) can reach up to 115.2kbps; it is convenient to network and realize the host monitoring
- Equipped with an optional LED operation panel to realize the visual operation and monitoring of the inverter
- Crimp terminals *1, can realize simple and reliable wiring, reduce costs, and reduce working hours
- Implemented circuit board coating (IEC60721-3-33C2/352) treatment to improve environmental resistance
- Equipped with terminal P/+ and terminal N/-, can be connected to the brake unit



COM port



LED panel



Data monitoring



Strong applicability



Product Model

Model	Mounting hole position (mm)		Dimensions (mm)				Mounting hole (mm)	Weight
	A	B	H	H1	W	D	d	kg
CM500-0.4S2-1A	80	156	164	-	86	125	Ø5	1.6
CM500-0.75S2-1A								
CM500-1.5S2-1A								
CM500-0.75T4-1A								
CM500-1.5T4-1A								
CM500-2.2T4-1A	86	173	184	-	97	136	Ø5	2.0
CM500-3.7T4-1A								
CM500-5.5T4-1A								
CM500-7.5T4-1A								

Scope of application

- Used in conveyor belts, cranes, elevators, and other handling machinery. It can be used at high starting torques such as washing machines and mixers.

Specifications

Basic function	Control system	Current vector universal inverter with highly integrated performance and function.
	Drive performance	High-efficiency drive induction motor
	Highest frequency	Vector control: 0-500Hz V/F control: 0-3200Hz.
	Carrier frequency	0.5KHz-16KHz According to the load characteristics, the carrier frequency can be automatically adjusted
	Input frequency resolution	Digital setting: 0.01Hz Analog setting: highest frequency×0.025%
	Control method	Open loop vector control (SVC) V/F control
	Starting torque	G type machine: 0.3Hz/150%(SVC) P type machine: 0.3Hz/100%
	Adjust speed range	1: 100(SVC)
	Steady speed precision	±0.5%(SVC)
	Overload capacity	G type machine: 150% rated current 120s; 180% rated current 10s P type machine: 120% rated current 60s; 150% rated current 3s
	Torque boost	Automatic torque boost; manual torque boost 0.1%-30.0%
	V/F curve	Three methods: linear type; multi-point type; Nth power V/F curve (1.2 power, 1.4 power, 1.6 power, 1.8 power, 2 power)
	V/F separation	Full separation or Half separation
	Curve acceleration and deceleration mode	Linear or S-curve acceleration/deceleration mode, four types of acceleration/deceleration time, acceleration/deceleration time range 0.0-6500.0s
	DC braking	DC braking frequency: 0.00Hz-maximum frequency; braking time: .0s-36.0s Braking action current value: 0.0%-100.0%
	Jog control	Jog frequency range: 0.00Hz-50.00Hz; Jog acceleration and deceleration time: 0.0s-6500.0s.
	Simple PLC, multi-stage fast transportation	Realize up to 16-speed operation through built-in PLC or control terminal
	Built-in PID	Convenient to realize process control closed-loop control system
	Automatic voltage adjustment	When the grid voltage changes, it can automatically keep the output voltage constant
	Overvoltage and overcurrent stall speed control	Automatically limit the current and voltage during operation to prevent frequent over-current and over-voltage trips
Fast current limiting	Minimize over-current faults to protect the normal operation of the inverter	
Torque limit and control	The "excavator" feature automatically limits the torque during operation to prevent frequent over-current trips. The closed-loop vector mode can realize torque control.	
Personalization function	Instantaneous stop keep running	When instantaneous power failure occurs, the load feedback energy is used to compensate for the voltage drop, and maintain the inverter to continue running for a short period of time
	Fast current limit	Avoid frequent over-current faults of the inverter
	Fast current limit	P type machine: 120% rated current 60s; 150% rated current 3s
	Timing control	Timing control function: set time range 0.0Min-6500.0Min.CANopen
Run	Command source	Operation panel setting, control terminal setting, serial communication port setting. Can be switched in a variety of ways
	Frequency source	11 kinds of frequency sources: keyboard potentiometer, digital setting, analog voltage setting, analog current setting, serial port setting. Can be switched in a variety of ways
	Input terminal	5 digital input terminals 1 analog input terminal; 1 support 0-10V voltage input or 0-20mA current input;
	Output terminal	1 digital output terminal 1 relay output terminal 1 analog output terminal, support 0-10V, 0-20mA voltage output
Display and keyboard operation	Keyboard potentiometer	Equipped with keyboard potentiometer or coded potentiometer
	Protective function	Power-on motor short circuit detection, input and output phase loss protection, overcurrent protection, overvoltage protection, undervoltage protection, overheat protection, overload protection, etc.
Environment	Use occasion	Indoors, free from direct sunlight; no dust, corrosive gas, flammable gas, oil mist, water vapor, dripping water or salt, etc.
	Altitude	Less than 1000m
	Ambient temperature	-10°C~+40°C(Ambient temperature is 40°C~50°C, please use with derating)
	Humidity	Less than 95%RH, no condensation
Vibration	Less than 5.9m/s (0.6g)	

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