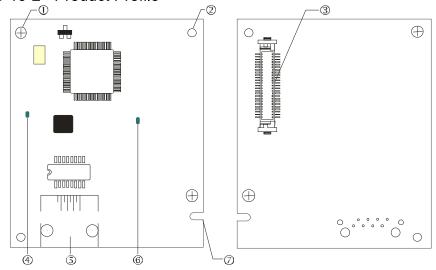
8-13 CMC-EIP01 -- Communication card, EtherNet/IP

8-13-1 Features

- 1. Supports Ethernet/IP and Modbus TCP protocol
- 2. User-defined corresponding parameters (use with EIP V.1.06)
- 3. IP filter simple firewall function
- 4. MDI/MDI-X auto-detect
- 5. Baud rate: 10/100 Mbps auto-detect

8-13-2 Product Profile



(Figure1)

- 1. Screw fixing hole
- 2. Positioning hole
- 3. AC motor drive connection port
- 4. LINK indicator
- 5. RJ45 connection port
- 6. POWER indicator
- 7. Alignment groove

8-13-3 Specifications

Network Interface

Interface	RJ45 with Auto MDI/MDIX	
Number Of Ports	1 Port	
Transmission	IEEE 802.3, IEEE 802.3u	
Transmission	Category 5e shielding 100 M	
Transmission	10/100 Mbps Auto-Detect	
Network Protocol	ICMP, IP, TCP, UDP, DHCP, HTTP, SMTP, Modbus over TCP/IP,	
Network Protocor	EtherNet/IP, Delta Configuration	

Electrical Specification

Weight	25 g	
Insulation Voltage	500 V _{DC}	
Power	0.8 W	
Power Supply	5 V _{DC} (provided by C2000-HS)	

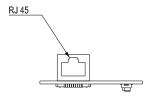
Environment

	ESD (IEC 61800-5-1, IEC 61000-4-2)
Noise Immunity	EFT (IEC 61800-5-1, IEC 61000-4-4)
Noise Immunity	Surge Test (IEC 61800-5-1, IEC 61000-4-5)
	Conducted Susceptibility Test (IEC 61800-5-1, IEC 61000-4-6)
O	Operation: -10°C–50°C (temperature), 90% (humidity)
Operation / Storage	Storage: -25°C–70°C (temperature), 95% (humidity)
Vibration / Shock International standards: IEC 61800-5-1, IEC 60068-2-6 / IEC 618 IEC 60068-2-27	

8-13-4 Installation

Connecting CMC-EIP01 to Network

- 1. Turn off the power of the drive.
- 2. Open the cover of the AC motor drive.
- 3. Connect a CAT-5e network cable to the RJ45 port on the CMC-EIP01 (See Figure 2).



(Figure 2)

RJ45 PIN Definition

PIN	Signal	Definition
1	Tx+	Positive pole for data
2	Tx-	Negative pole for data
3	Rx+	Positive pole for data reception
4		N/C

PIN	Signal	Definition
5		N/C
6	Rx-	Negative pole for data reception
7		N/C
8		N/C



8-13-5 Communication Parameters for C2000-HS Connected to Ethernet

When the C2000-HS is connected to an Ethernet network, set up the communication parameters for it according to the table below. The Ethernet master is only able to read and write the frequency word and control word of C2000-HS after the communication parameters are set.

Parameter	Function	Set value (Dec)	Explanation
Pr.00-20	Source of frequency command setting	8	The frequency command is controlled by communication card.
Pr.00-21	Source of operation command setting	5	The operation command is controlled by communication card.
Pr.09-30	Decoding method for communication	0	The decoding method for Delta AC motor drive
Pr.09-75	IP setting	0	Static IP(0) / Dynamic distribution IP(1)
Pr.09-76	IP address -1	192	IP address 192.168.1.5
Pr.09-77	IP address -2	168	IP address 192.168.1.5
Pr.09-78	IP address -3	1	IP address 192.168.1.5
Pr.09-79	IP address -4	5	IP address 192.168.1.5

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Parameter	Function	Set value (Dec)	Explanation
Pr.09-80	Netmask -1	255	Netmask 255.255.255.0
Pr.09-81	Netmask -2	255	Netmask 255.255.255.0
Pr.09-82	Netmask -3	255	Netmask 255.255.255.0
Pr.09-83	Netmask -4	0	Netmask 255.255.255.0
Pr.09-84	Default gateway -1	192	Default gateway 192.168.1.1
Pr.09-85	Default gateway -2	168	Default gateway 192.168.1.1
Pr.09-86	Default gateway -3	1	Default gateway 192.168.1.1
Pr.09-87	Default gateway -4	1	Default gateway 192.168.1.1

8-13-6 LED Indicator & Troubleshooting

There are 2 LED indicators on the CMC-EIP01. The POWER LED displays the status of power supply, and the LINK LED displays the connection status of the communication.

LED Indicators

LED Indicators				
LED	Status		Indication	Corrective Action
POWER		ON	Power supply in normal status	
FOWER	POWER Green OFF		No power supply	Check the power supply.
LINK Green		ON	Network connection in normal status	-
	Green	Flashing	Network in operation	
		OFF	Network not connected	Check if the network cable is connected.

Troubleshooting

Abnormality	Cause	Corrective Action
POWER LED OFF	AC motor drive not powered	Check the power of the AC motor drive, and if the power supply is normal.
	The CMC-EIP01 not connected to the AC motor drive	Ensure that CMC-EIP01 is connected to the AC motor drive.
	The CMC-EIP01 not connected to network	Ensure that the network cable is correctly connected to network.
LINK LED OFF	Poor contact to RJ45 connector	Ensure that RJ45 connector is connected to Ethernet port.
No communication card found	The CMC-EIP01 not connected to network	Ensure that CMC-EIP01 is connected to network.
	PC and CMC-EIP01 in different networks and blocked by network firewall.	Search by IP or set up relevant settings by AC motor drive keypad.
Fail to open CMC-EIP01 setup page	The CMC-EIP01 not connected to network	Ensure that CMC-EIP01 is connected to the network.
	Incorrect communication setting in DCISoft	Ensure that the communication setting in DCISoft is set to Ethernet.
	PC and CMC-EIP01 in different networks and blocked by network firewall.	Set up with the AC motor drive keypad.

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Abnormality	Cause	Corrective Action
Able to open CMC-EIP01 setup page but fail to utilize webpage monitoring	Incorrect network setting in CMC-EIP01	Check if the network setting for CMC-EIP01 is correct. For the Intranet setting in your company, please consult your IT staff. For the Internet setting in your home, refer to the network setting instruction provided by your ISP.
Fail to send e- mail	Incorrect network setting in CMC-EIP01	Check if the network setting for CMC-EIP01 is correct.
	Incorrect mail server setting	Confirm the IP address for SMTP-Server.