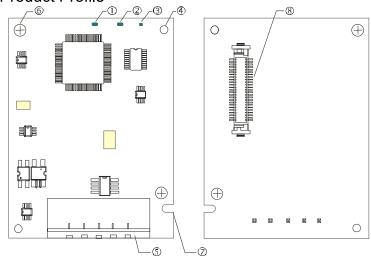
8-12 CMC-DN01 -- Communication card, DeviceNet

8-12-1 Functions

- Based on the high-speed communication interface of Delta HSSP protocol, able to conduct immediate control to AC motor drive.
- 2. Supports Group 2 only connection and polling I/O data exchange.
- 3. For I/O mapping, supports Max. 32 words of input and 32 words of output.
- 4. Supports EDS file configuration in DeviceNet configuration software.
- 5. Supports all baud rates on DeviceNet bus: 125 Kbps, 250 Kbps, 500 Kbps and extendable serial transmission speed mode.
- 6. Node address and serial transmission speed can be set up on AC motor drive.
- 7. Power supplied from AC motor drive.

8-12-2 Product Profile



1. NS indicator	
2. MS indicator	
3. POWER indicator	
4. Positioning hole	

5. I	DeviceNet	connection	por

6. Screw fixing hole

7. Fool-proof groove

8. AC motor drive connection port

8-12-3 Specifications

DeviceNet Connector

Interface	5-PIN open removable connector of 5.08mm PIN interval	
Transmission	CAN	
Transmission Cable	Shielded twisted pair cable (with 2 power cables)	
Transmission Speed	125 Kbps, 250 Kbps, 500 Kbps and extendable serial transmission speed	
Network Protocol	DeviceNet protocol	

AC Motor Drive Connection Port

Interface	50 PIN communication terminal	
Transmission SPI communication		
Terminal Function 1. Communicating with AC motor drive 2. Transmitting power supply from AC motor drive		
Communication Protocol Delta HSSP protocol		

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Electrical Specification

Power Supply	5 V _{DC} (supplied by AC motor drive)	
Insulation Voltage	500 V _{DC}	
Communication Wire Power Consumption	0.85 W	
Power Consumption	1 W	
Weight	23 g	

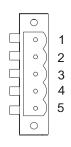
Environment

	ESD (IEC 61800-5-1, IEC 61000-4-2)	
Noise Immunity	EFT (IEC 61800-5-1, IEC 61000-4-4)	
Noise Immunity	Surge Teat (IEC 61800-5-1, IEC 61000-4-5)	
	Conducted Susceptibility Test (IEC 61800-5-1, IEC 61000-4-6)	
Operation / Storage	Operation: -10°C–50°C (temperature), 90% (humidity) Storage: -25°C–70°C (temperature), 95% (humidity)	
Shock / Vibration Resistance	International standards: IEC61800-5-1, IEC60068-2-6 (TEST Fc) / IEC61800-5-1 & IEC60068-2-27 (TEST Ea)	

8-12-4 Installation

DeviceNet Connector

PIN	Signal	Color	Definition
1	V+	Red	DC24V
2	Н	White	Signal+
3	S	-	Earth
4	L	Blue	Signal-
5	V-	Black	0V



8-12-5 LED Indicator & Troubleshooting

There are 3 LED indicators on CMC-DN01. POWER LED displays the status of power supply. MS LED and NS LED are dual-color LED, displaying the connection status of the communication and error messages.

POWER LED

LED status Indication		Corrective Action
OFF	Power supply in abnormal status.	Check the power supply of CMC-DN01.
Green light On	Power supply in normal status	

NS LED

LED status	Indication	Corrective Action
OFF	No power supply or CMC-DN01 has not completed MAC ID test yet.	 Check the power of CMC-DN01 and see if the connection is normal. Make sure at least one or more nodes are on the bus. Check if the serial transmission speed of CMC-DN01 is the same as that of other nodes.

LED status	Indication	Corrective Action
Green light flashes	CMC-DN01 is on-line but has not established connection to the master.	 Configure CMC-DN01 to the scan list of the master. Re-download the configured data to the master.
Green light on	CMC-DN01 is on-line and is normally connected to the master	
Red light flashes	CMC-DN01 is on-line, but I/O connection is timed-out.	 Check if the network connection is normal. Check if the master operates normally.
Red light on	 The communication is down. MAC ID test failure. No network power supply. CMC-DN01 is off-line. 	 Make sure all the MAC IDs on the network are not repeated. Check if the network installation is normal. Check if the baud rate of CMC-DN01 is consistent with that of other nodes. Check if the node address of CMC-DN01 is illegal. Check if the network power supply is normal.

MS LED

LED status	Indication	Corrective Action
OFF	No power supply or being off-line	Check the power supply of CMC-DN01 and see if the connection is normal.
Green light flashes	Waiting for I/O data	Switch the master PLC to RUN status
Green light on	I/O data are normal	
Red light flashes	Mapping error	 Reconfigure CMC-DN01 Re-power AC motor drive
Red light on	Hardware error	 See the fault codes displayed on the AC motor drive. Send back to the factory for repair if necessary.
Orange light flashes	CMC-DN01 is establishing connection with AC motor drive.	If the flashing lasts for a long time, turn off the power and check if CMC-DN01 and the AC motor drive are correctly installed and normally connected to each other.