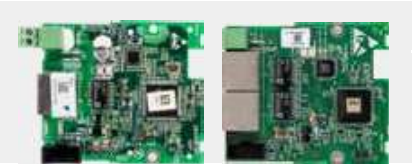
Accessories

The matched connection cables (CBM-CLxxA 、CBM-CCxxA) are required for usage.
Please refer to the user manual for detailed ordering information.

▪ EtherNet/IP Option Card

CMM-EIP02 / CMM-EIP03 NEW



Features

- Supports max. 32 words input and 32 words output of I/O connection
- User-defined parameter mapping
- IP Filter, basic firewall function
- Supports DLR ring nodes
  *Applicable to CMM-EIP03

Network Interface

Network protocol	DHCP、BOOTP、EtherNet/IP、Modbus TCP	Interface	RJ-45
Transmission speed	10 / 100Mbps	Number of port	1 (CMM-EIP02) / 2 (CMM-EIP03)
Transmission method	I/O connection / Explicit message	Transmission cable	Category 5e shielding
Transmission distance	100 m, extension is allowed via switch		

▪ DeviceNet Option Card

CMM-DN02



Features

- Supports Group 2 only connection method and cyclic I/O data exchange
- Provides EDS file to identify DeviceNet equipment information
- Supports max. 32 words input and 32 words output of parameter mapping and remote I/O function
- Node address and Baud rate can be set in the AC motor drive

Network Interface

Network protocol	DeviceNet	Interface	Terminal block
Transmission speed	500k / 250k / 125k / 100k / 50k bps and extendable baud rate mode of 1M	Number of ports	1
Transmission method	Explicit message / Implicit message	Transmission cable	Delta standard
Transmission distance	25 m / 1Mbps		

▪ CANopen Option Card

CMM-COP02



Features

- Complies with CiA 402 standard (default setting)
- 4 sets of RX/TX PDO
- Dual communication ports
- Node address and Baud rate can be set in the AC motor drive
- Supports Delta protocol, DMCNET
- Supports remote I/O function

Network Interface

Network protocol	CANopen	Interface	RJ-45
Transmission speed	1Mbps / 500 Kbps / 250 Kbps / 125 Kbps / 100 Kbps / 50 Kbps	Number of ports	2
Transmission method	PDO, SDO	Transmission cable	Delta standard
Transmission distance	25 m / 1Mbps		

PROFIBUS DP Option Card

CMM-PD02



Features

- Supports PZD cyclic data exchange
- Supports PKW read/write to AC motor drive parameters
- Supports user diagnosis function
- Auto-detects baud rates; supports Max.12 Mbps.
- Supports remote I/O function

Network Interface

Network protocol	PROFIBUS DP	Interface	DB9
Transmission speed	9.6k/19.2k/93.75k/187.5k/500k/1.5M/3M/6M/12Mbps	Number of ports	1
Transmission method	Cyclic/non-cyclic data exchange	Transmission cable	Delta standard
Transmission distance	100 m/12Mbps		

EtherCAT Option Card NEW

CMM-EC02



Features

- Supports Ethernet CAT protocol
- Supports standard CiA402 speed mode
- Supports SDO (Service Data Objects) function: Drive status reading and parameters editing
- Auto shutdown function for interruptions during data transmission
- Supports remote I/O function

Network Interface

Interface	RJ-45	Transmission cable	Category 5e shielding 100 M
Number of ports	2 Ports	Transmission speed	100 Mbps
Transmission method	IEEE 802.3, IEEE 802.3u	Network protocol	EtherCAT

24V Power Shift Card

EMM-BPS02



Terminals	Description
PE GND 24 V	When the AC motor drive power is off, the external power supply card provides external power to the network system, PLC function, and other functions to allow continued operations. Input power: 24 V ± 5% Maximum input current: 0.5A Note: 1) Do not connect the control terminal +24 V (Digital control signal common: SOURCE) directly to the EMC-BPS01 input terminal 24 V. 2) Do not connect control terminal GND directly to the EMC-BPS01 input terminal GND in oder to achieve good isolation.

Note 1: For the Open Collector, set input voltage to 5~15 mA and install a pull-up resistor
[5 V] Recommend pull-up resistor: 100~220 Ω, 1/2 W and above
[12 V] Recommend pull-up resistor: 510~1.35 KΩ, 1/2 W and above
[24 V] Recommend pull-up resistor: 1.8 K~3.3 KΩ, 1/2 W and above

Screw Specification of Option Card Terminals

Screw Specification of Option Card Terminals	Wire Gauge	Torque
CMM-COP02	30~16 AWG (0.0509 ~ 1.31 mm^2)	2 Kg-cm [1.74 lb-in]
CMM-EIP02/CMM-EIP03		
CMM-PD02		
CMM-DN02		
EMM-BPS02	30~16 AWG (0.0509 ~ 1.31 mm^2)	8 Kg-cm [6.94 lb-in]

Accessories

▪ Standard Fieldbus Cables

Delta Cables	Part Number	Description	Length
CANopen Cable	UC-CMC003-01A	CANopen cable, RJ45 connector	0.3m
	UC-CMC005-01A	CANopen cable, RJ45 connector	0.5m
	UC-CMC010-01A	CANopen cable, RJ45 connector	1m
	UC-CMC015-01A	CANopen cable, RJ45 connector	1.5m
	UC-CMC020-01A	CANopen cable, RJ45 connector	2m
	UC-CMC030-01A	CANopen cable, RJ45 connector	3m
	UC-CMC050-01A	CANopen cable, RJ45 connector	5m
	UC-CMC100-01A	CANopen cable, RJ45 connector	10m
	UC-CMC200-01A	CANopen cable, RJ45 connector	20m
DeviceNet Cable	UC-DN01Z-01A	DeviceNet cable	305m
	UC-DN01Z-02A	DeviceNet cable	305m
EtherNet/EtherCAT Cable	UC-EMC003-02A	EtherNet/EtherCAT cable, Shielding	0.3m
	UC-EMC005-02A	EtherNet/EtherCAT cable, Shielding	0.5m
	UC-EMC010-02A	EtherNet/EtherCAT cable, Shielding	1m
	UC-EMC020-02A	EtherNet/EtherCAT cable, Shielding	2m
	UC-EMC050-02A	EtherNet/EtherCAT cable, Shielding	5m
	UC-EMC100-02A	EtherNet/EtherCAT cable, Shielding	10m
	UC-EMC200-02A	EtherNet/EtherCAT cable, Shielding	20m
CANopen/DeviceNet TAP	TAP-CN01	1 in 2 out, built-in 121Ω terminal resistor	1 in 2 out
	TAP-CN02	1 in 4 out, built-in 121Ω terminal resistor	1 in 4 out
	TAP-CN03	1 in 4 out, RJ45 connector, built-in 121Ω terminal resistor	1 in 4 out
PROFIBUS Cable	UC-PF01Z-01A	PROFIBUS DP cable	305m

▪ Extension Cable for Digital Keypad



Part No.	L	
	mm	[inch]
EG0610C	600	23.6
EG1010C	1000	39.4
EG2010C	2000	78.7
EG3010C	3000	118.1
EG5010C	5000	196.8

Model Name Explanation

VFD 1A5 MS 43 A N S A A

Variable Frequency Drive

Rated Output Current

Under Heavy Duty Mode (150% 60 seconds)

Series Name

MS: Standard MS300

Input Voltage

11: 115V single-phase
21: 230V single-phase
23: 230V 3-phase
43: 460V 3-phase
53: 575V 3-phase*

IP Level

A: IP20
E: IP40 (Anti-dust)
M : IP66/NEMA 4X

EMC Filter

N: None
F: Built-in EMC Filter

Safe Torque Off (STO)

S: Integrated STO

Model Type

A: Standard Model
H: High Speed Model
(IP66 models not supported)

Version

*Only for models with ANSAA at the end of model names