

Onboard Network Communications**Johnson Controls Metasys N2**

H-Max Series provides communication between the drive and a Johnson Controls Metasys™ N2 network. With this connection, the drive can be controlled, monitored and programmed from the Metasys system. N2 can be selected and programmed by the drive keypad.

BACnet

H-Max Series provides communication to BACnet networks. Data transfer is master-slave/token passing (MS/TP) RS-485.

BACnet IP

100 base T interface.

Modbus TCP

Ethernet based protocol.

Modbus RTU

H-Max Series provides communication to Modbus RTU RS-485 as a slave on a Modbus network. Other communication parameters include an address range from 1–247; a parity of None, Odd or Even; and the stop bit is 1.

H-Max Series Option Board Kits Available for Slot B

The factory issued relay option board can be replaced with the following option

boards to customize the drive for your application needs.

The standard board provides 2 Form C RO (NO/NC) and 1 Form A RO (NO).

Option Boards Mounted in Slot B

Option Kit Description	Option Kit Catalog Number
I/O expander card, 2 RO and thermistor input	Relay Board 2

H-Max Series Option Board Kits Available for Slots D and E

The H-Max Series drives can accommodate a wide selection of expander and adapter option boards to customize the drive for your

application needs. The drive's control unit is designed to accept a total of two option boards.

The H-Max Series factory-installed standard board configuration includes an I/O board and a relay output board.

Option Boards Mounted in Slots D and E

Option Kit Description	Option Kit Catalog Number
6 x DI /DO, each digital input can be individually programmed as digital output	XXM-IO-B1-A
1RO Form C (NO/NC), 1RO Form A (NO), 1 thermistor	XXM-IO-B2-A
1 x AI, 2 x AO (isolated)	XXM-IO-B4-A
3 x RO Form A (NO)	XXM-IO-B5-A
1RO Form A (NO), 5DI 42–240 Vac input	XXM-IO-B9-A
1 x AO, 1 x DO, 1 x RO	XXM-IO-BF-A
LonWorks®	XXM-COM-C4-A

NEMA Type 1 to NEMA Type 12/IP54 Conversion Kit

The NEMA Type 12/IP54 option kit is used to convert a NEMA Type 1 to a NEMA Type 12 drive.

Kit consists of a drive cover, fan kit and plugs.

NEMA Type 12/IP54 Cover

Option Kit Description	Option Kit Catalog Number
FS4-branded N12/IP54 cover with gasket, plastic plug, fans, Eaton logos	FS4-N12KIT
FS5-branded N12/IP54 cover with gasket, plastic plug, fans, Eaton logos	FS5-N12KIT
FS6-branded N12/IP54 cover with gasket, plastic plug, fans, Eaton logos	FS6-N12KIT

Accessories

2

Flange Kits

The flange kit is used when the power section heat sink is mounted through the back panel of an enclosure.

Flange Kit NEMA Type 1/IP21

Includes flange, mounting brackets, and screws.

Flange Kit NEMA Type 12/IP54

Includes flange, mounting brackets, NEMA Type 12 fan components, air shroud screws and plugs.

Frames FS4–FS9 ①②

Description	Catalog Number
NEMA Type 12/IP54	
FS4 N12/IP54 flange kit (mounting N1 drive into N12 enclosure)	FS4-Flange-N12KIT
FS5 N12/IP54 flange kit (mounting N1 drive into N12 enclosure)	FS5-Flange-N12KIT
FS6 N12/IP54 flange kit (mounting N1 drive into N12 enclosure)	FS6-Flange-N12KIT
FS7 N12/IP54 flange kit (mounting N1 drive into N12 enclosure)	FS7-Flange-N12KIT

Keypad Accessories**Remote Mounting Keypad Kit****Frames FS4–FS9**

Description	Catalog Number
Remote mounting keypad kit—bezel and cable	OPTRMT-BP-HMAX

Drive Demo**H-Max Series Drive Demo****Demos and Power Supply**

Description	Catalog Number
H-Max Series drive demo	H-MAX-DEMO
H-Max Series bypass demo	H-MAX-BYPASS-DEMO
Hand-held 24V auxiliary power supply—used to supply power to the control module in order to perform keypad programming before the drive is connected to line voltage	9000XAUX24V

Notes

- ① For installation of a NEMA Type 1 drive into a NEMA Type 12 oversized enclosure.
- ② Frame size 8 and 9 must be ordered from the factory as a flange mount unit.

Replacement Parts

Control Board/Keypad

Description	Current Catalog Number
H-Max Series graphic bypass, HOA	KeypadbypassHOA
H-Max Series graphic back, HOA	KeypadbackHOA

PC Cable

Description	Catalog Number
Remote download USB to RJ-45 cable with software driver disk	REM-USB-Down

Replacement Relay Board in Slot B

Description	Catalog Number
Replacement relay board qty 2 Form C relay, qty 1 Form A relay	Relay board 1

Main Fan

Description	Catalog Number
FS4 main fan	FS4-Main Fan
FS5 main fan	FS5-Main Fan
FS6 main fan	FS6-Main Fan
FS7 main fan	FS7-Main Fan

Internal Fan

Description	Catalog Number
FS4 internal fan (IP54/NEMA 12)	FS4-Internal Fan
FS5 internal fan (IP54/NEMA 12)	FS5-Internal Fan
FS6 internal fan (IP54/NEMA 12)	FS6-Internal Fan
FS7 internal fan (IP54/NEMA 12)	FS7-Internal Fan