

B-PRO 4000 Multi Busbar Protection Relay

Order Template

In order to specify and order the B-PRO 4000 Multi Busbar (MBB) Protection system correctly, an order string must be requested separately for the B-PRO relays and the I/O Expansion units (if required) as per the details below:

B-PRO 4000 MBB a - b - ccc - d - e - f - gg - h - i - j - k

a: Model:

- 3: 3U chassis with 9 digital inputs, 14 digital outputs, 18 CT inputs, 3 PT inputs

b: Secondary Input Current:

- 1: 1 Amp
- 5: 5 Amp

ccc: External Input Rating:

- 048: Set to 48 V_{dc}
- 125: Set to 125 V_{dc}
- 250: Set to 250 V_{dc} (Not applicable if CE compliance is required)

d: Internal Modem

- 0: Internal Modem is not available with the B-PRO MBB

e: LAN Redundancy Selection

Network port redundancy on rear Ethernet port 119 is available as an option. If redundancy is required, select between RSTP, PRP or HSR redundancy protocols.

- 0: No redundancy (default)
- 1: RSTP Redundancy on Ethernet ports 119 and 124
- 2: PRP Redundancy on Ethernet ports 119 and 124
- 3: HSR Redundancy on Ethernet ports 119 and 124

f: LAN Media Selection

Selection 0, 1 and 2 are available if "no redundancy option 0 is selected in "e".

- 0: Cu - Op => port 119 = 100BASE-T (RJ45), port 120 = 100BASE-FX (multimode, 1300 nm, ST)
- 1: Op - Op => port 119 & 120 = 100BASE-FX (multimode, 1300 nm, ST)
- 2: Cu - Cu => port 119 & 120 = 100BASE-T (RJ45)

Selections 5 and 6 are available only if a redundancy option is selected in "e".

- 5: Cu - Op => port 119 & 124 = 100BASE-T (RJ45), port 120 & 125 = 100BASE-FX (multimode, 1300 nm, LC)
- 6: Op - Op => port 119, 120, 124 & 125 = 100BASE-FX (multimode, 1300 nm, LC)



gg: Operating Frequency:

- 50: 50 Hertz
- 60: 60 Hertz

h: Conformal Coating:

- 0: Not conformal coated (default)
- 1: Conformal coating for corrosive environment

i: Custom Firmware Request:

- 0: Latest version (default)
- 1: Custom version (please specify firmware version number)

j: Custom Hardware Request:

- 0: No special build instructions (default)
- 1: Special build instructions (please specify special instructions)

k: This is a reserved character in the order string for internal purposes only.

Example: B-PRO 4000 MBB (3-5-125-0-0-1-0-60-0-0-0-A)

This part number specifies a B-PRO 4000 MBB in 3U chassis with 5A secondary input current, 125 V_{dc} rated external inputs, no modem card, without network redundancy option, with both LAN ports to be used for optical communications, suitable for operation on 60 Hertz system, without conformal coating and with latest software version and standard hardware build.



I/O Expansion

Order Template

In order to specify and order the I/O Expansion properly configured for the application, a part number must be constructed as indicated below. The I/O Expansion has two LAN networks with separate MAC and IP addresses on ports 401 and 402, as well as 5 additional ports which may be configured to connect to either port 401 or 402 at the time of order:

I/O Expansion a - b - c - dd - e - f - g - h - i

a: Enclosure Size:

- 4: 4U chassis with 128 digital inputs, 16 digital outputs

b: Communications options for LAN Ports 401 and 402:

- 0: Cu - Op: port 401 = RJ45, 100BASE-T, port 402 = 100BASE-FX, multimode, 1300 nm, ST style connector
- 1: Op -Op: port 401 & 402 = 100BASE-FX, multimode, 1300 nm, ST style connector
- 2: Cu - Cu: port 401 & 402 = RJ45, 100BASE-T

c: Ethernet Switch Configuration:

- 0: Network 1 = port 401; Network 2 = ports 402, 424, 425, 426, 427 and 428
 - 1: Network 1 = ports 401, 427 and 428; Network 2 = ports 402, 424, 425 and 426
- Ports 424 - 428 are Cu, 100BASE-T, RJ-45 connector

dd: Operating Frequency:

- 50: 50 Hertz
- 60: 60 Hertz

e: CE Compliant:

- 0: not CE marked
- 1: CE marked

Note: CE compliance limits digital inputs to 125 V_{dc} max.

f: Conformal Coating:

- 0: not conformal coated

g: Custom Firmware Request:

- 0: Latest version (default)
- 1: Custom version (please specify firmware version number)

h: Custom Hardware Request:

- 0: No special build instructions (default)
- 1: Special build instructions (please specify special instructions)

i: This is a reserved character in the order string for internal purposes only.



Example: I/O Expansion (4-1-1-60-0-0-0-0-A)

This part number specifies an I/O Expansion with both 401 and 402 LAN ports to be used for optical communications, ports 401, 427, 428 on network 1 and ports 402, 424, 425, 426 on network 2, suitable for operation on 60 Hertz systems, with no CE mark requirements

Manuals: The latest version of the manuals can be downloaded from our website: <http://www.erlphase.com/support.php?ID=documents>. If you do wish to purchase a hard copy manual, you may order that using the part number below.

<Part # 115037> B-PRO MBB User Manual

<Part # 114307> I/O Expansion User Manual

Note: The unit inoperative is set as Normally Closed and user configurable outputs are set as Normally Open. Please enquire regarding any specific non-standard requirements.

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The specifications and product information contained in this document are subject to change without notice. In case of inconsistencies between documents, the version at www.erlphase.com will be considered correct. (D04383R05)