

# VB910e (Controller MTU)

## ABB Ability™ Symphony® Plus Hardware Selector



The VB910e vertical Module Base provides the mounting for a singular or redundant pair of SPC810e controller modules. SPC810e evolution controller modules support multiple mounting options from MMUs, EMCs, and horizontal and vertical DIN-Rails.

The VB910e base connects the SPC810e controller modules to the HN800 I/O bus.

The VB910e base also connects the controllers to the CW800 Peer-to-Peer bus for synchronous controller communications.

### Features and benefits

- Mounts two (2) SPC810e controller modules to a vertical DIN-Rail.
- Connects SPC810e controller modules to redundant HN800 I/O bus.
- Connects SPC810e controller modules to redundant CW800 Peer-to-Peer bus.
- Provides four (4) RJ45 connectors for 100/1000 MB Ethernet for PN800 Control Network.

#### General info

|                             |   |
|-----------------------------|---|
| Article number              | 7PAA007385R11   |
| Life cycle status           | Active  |
| Line redundancy             | Yes   |
| Hot swap                    | No  |
| Singular or redundant       | Singular or redundant   |
| Form factor                 | Compact (145 mm)  |
| Mounting                    | Vertical DIN-rail   |
| HN800 bus length            | 355 mm  |
| MTBF (per MIL-HDBK-217-FN2) | PR B: 5,553,552 @ 30 °C; 4,700,973 @ 40 °C; 2,883,415 @ 70 °C |
| MTTR (Hours)                | 8 Hrs   |

**Detailed data**

|                                    |  |
|------------------------------------|--|
| Overvoltage category               | Category 1 for power. Tested according to IEC/EN 61010-1 |
| Process signal connections         | n/a  |
| Field power connection             | n/a  |
| Field power fusing                 | n/a  |
| Signal connection                  | 100/1000 MB Ethernet                                     |
| Max current                        | n/a  |
| Acceptable field signal wire sizes | n/a  |
| Galvanic isolation test voltage    | 1500 V for up to 1 minute                                |

**Environment and certification**

|  |  |
|--|--|
| Temperature, Operating                 | -40 to +70 °C Tested according to IEC/EN 60068-2-1, IEC/EN 60068-2-2                               |
| Temperature, Storage                   | -40 to +85 °C Tested according to MIL-STD-810G   |
| Relative humidity                      | 20% to 95% @ 40°C non-condensing. Tested according to IEC/EN 60068-2-78, IEC/EN 61298-3            |
| Vibration (operational sinusoidal)     | 5 to 60 Hz 0.137 mm (0.0054 in.), 60 to 150 Hz 1.0 G. Tested according to IEC/EN 60068-2-6         |
| Vibration (transportation)             | 10 to 500 Hz. Tested according to MIL-STD-810G   |
| Shock (storage)                        | 15 G, 11 msec. Tested according to IEC/EN 60068-2-27   |
| Drop                                   | 100 mm. Tested according to IEC/EN 60068-2-31  |
| Protection class                       | IP20 according to EN 60529   |
| Altitude (operational)                 | Sea level to 3,048 meters (10,000 ft.) Tested according to MIL-STD-810G                            |
| Altitude (storage)                     | Sea level to 12,192 meters (40,000 ft.) Tested according to MIL-STD-810G                           |
| Air quality                            | ISA S71.04 G3 compliant  |
| ESD immunity                           | Tested according to IEC/EN 61000-6-2, IEC/EN 61000-4-2, Severity level 3                           |
| Surge immunity                         | Tested according to IEC/EN 61000-6-2, IEC/EN 61000-4-5, Severity level 3                           |
| Electrical fast transient immunity     | Tested according to IEC/EN 61000-6-2, IEC/EN 61000-4-4, Severity level 3                           |
| Radiated RFI immunity                  | Tested according to IEC/EN 61000-6-2, IEC/EN 61000-4-3, Severity level 3                           |
| Conducted Immunity                     | Tested according to IEC/EN 61000-6-2, IEC/EN 61000-4-6, Severity level 3                           |
| Magnetic field immunity                | Tested according to IEC/EN 61000-6-2, IEC/EN 61000-4-8, Severity level 4                           |
| Radiated emission                      | Tested according to IEC/EN 61000-6-2, IEC/EN 61000-4-6, Severity level 3                           |
| Conducted emission                     | Tested according to IEC/EN 61000-6-4, CISPR 11 + A1, CISPR 16-1-1, Group 1, Class A, ISM equipment |
| Voltage dips and interruption immunity | Tested according to IEC/EN 61000-6-2, IEC/EN 61000-4-11  |
| CSA non-hazardous locations            | Certified for use as process control equipment in an ordinary (non-hazardous) location             |
| CSA hazardous, nonincendive locations  | Class I, Division 2, Groups A, B, C, D   |
| CE Mark                                | CE Mark EMC directive 2004/108/EC & Low Voltage Directive 2006/95/EC                               |
| RoHS compliance                        | RoHS Directive 2015/863  |
| WEEE compliance                        | DIRECTIVE/2012/19/EU   |

**Dimensions**

|        |                  |
|--------|------------------|
| Width  | 103 mm (4.0 in.) |
| Depth  | 115 mm (4.5 in.) |
| Height | 151 mm (5.9 in.) |
| Weight | 345 grams        |

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