DATA SHEET

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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