DATA SHEET

EMB910e

ABB Ability™ Symphony® Plus Hardware Selector

The EMB910e Evolution Mounting Base provides mounting for a single SPC810e controller module to an EMC-_B0_ Evolution Mounting Chassis. Redundant controllers require two (2) EMB910e bases mounted in adjacent slots within the EMC.

The base connects the controller to the HN800 I/O bus of Symphony Plus. The base also connects the controller module to the PBA81x Process Bus Adapter which connects the controller to PN800 Plant Network and CW800 Peer-To-Peer bus.

Features and benefits

- Within an EMC-_B0_ Evolution Mounting Chassis, the EMB910e mounting base enables SPC810e controller to be connected to:
- SD and SDe Series I/O modules
- PDP800 PROFIBUS DP Master modules
- SCI200 Multi-Protocol Ethernet Interface modules
- CI850 Electrical Integration interface modules
- HN800 Fiber Optic repeater modules

General info	
Article number	7PAA005098R11
Life cycle status	Active
Line redundancy	Yes
Hot swap	No
Supported IO modules	SPC810e
Singular or redundant	Redundant
Form factor	EMC-_B0_ Evolution Mounting Chassis
Mounting	EMC-DB01, EMC-DB02, EMC-SB01, EMC-SB02
HN800 bus length	190 mm
MTBF (per MIL-HDBK-217-FN2)	PR C: 8,568,246 Hours @ 30 ˚C, 7,392,563 Hours @ 40 ˚C, 4,825,271 Hours @ 70 ˚C
MTTR (Hours)	8 Hrs

Detailed data	
Overvoltage category	Category 1 for power. Tested according to IEC/EN 61010-1
Field power connection	n/a
Field power fusing	n/a
Signal connection	n/a
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	35.5 mm
Depth	173.46 mm
Height	177 mm
Weight	181 grams

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