DATA SHEET

HDT-BRK-01

ABB Ability™ Symphony® Plus Hardware Selector

The HDT-BRK-01 High-Density Termination mounting bracket assembly is used to mount HDT-XIO-01 and HDT-UAI-01 High-Density Terminations to the back side of an EMC-B0x Evolution Mounting Chassis. The HDT-BRK-01 is installed on the back side of an EMC and provides stability to HDT-xxx-01 terminations. The HDT-BRK-01 provides stable and secure mounting of up to twelve (12) HDT-xxx-01 terminations.

The HDT-BRK-01 supports connection of HDT-xxx-01 terminations and PBA81x Process Bus Adapters to the back side of an EMC-B0x Evolution Mounting Chassis. HDTs and PBAs can be mounted in any position of the EMC. The HDT-BRK-01 also includes a special 4-PT Terminal Block for connecting module power to the back side of the EMC-B0x Evolution Mounting Chassis. Refer to 7PAA013189 S+ High-Density Terminations User Manual for detailed information regarding the proper installation and set-up of HDT-BRK-01.

Features and benefits

- Connects to back side of an EMC-_B0x Evolution Mounting Chassis in preparation for using an HDT-xxx-01 High-Density Terminations
- Use the 4-PT terminal block provided with the HDT-BRK-01 mounting bracket assembly to connect the module power source to the back side of the EMC-_B0x Revolution Mounting Chassis.

General info	
Article number	7PAA008805R1
Life cycle status	Active
Line redundancy	Yes
Hot swap	No
Supported IO modules	AD11e, AI12e, AI16e, AO02e, DI06e, DO01e, DO05e, FI12e and PI01e
Singular or redundant	Singular
Form factor	EMC-_B0_ Evolution Mounting Chassis
Mounting	EMC-DB01, EMC-DB02, EMC-SB01, EMC-SB02
HN800 bus length	n/a
MTBF (per MIL-HDBK-217-FN2)	PR x: N/A Hours @ 30 ˚C N/A Hours @ 40 ˚C N/A Hours @ 70 ˚C
MTTR (Hours)	8 Hrs

Detailed data	
Overvoltage category	Category 1 for power. Tested according to IEC/EN 61010-1
Process signal connections	NONE
Field power connection	NONE
Field power fusing	NONE
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	Standard = 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	30.7 mm
Depth	134.5 mm
Height	130.5 mm
Weight	250 g

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