



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

APPLICATION FOR HCAI SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP-0320

HCAI Special Seismic Certification Preapproval (OSP)

Type: ☐ New ☒ Renewal

Manufacturer Information

Manufacturer: ABB, Inc.

Manufacturer's Technical Representative: Dhirendra Tiwari

Mailing Address: 41 Woodford Ave, Plainville, CT 06062

Telephone: (860) 747-7935

Email: Dhirendra.Tiwari@us.abb.com

Product Information

Product Name: Spec Setter and Evergold Solar Safety Switches

Product Model Number(s): See attachments

Product Category: Switchgear/Switchboards

Product Sub-Category: Switchboards

General Description: 30A to 1200A General Duty, Heavy Duty, Mill Duty, Double Throw, and Solar Duty Safety Switches.

Mounting Description: Wall Mounted Rigid

Tested Seismic Enhancements: Seismic enhancements made to the test units and/or modifications required to address anomalies during the tests shall be incorporated into the production units.

Applicant Information

Applicant Company Name: W.E. Gundy & Associates, Inc.

Contact Person: Travis Soppe

Mailing Address: 1199 Shoreline Dr, Ste 300, Boise, ID 83702

Telephone: (208) 342-5898

Email: tsoppe@wegai.com

Title: SE



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California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)

Company Name: W.E. GUNDY & ASSOCIATES INC.

Name: Travis Soppe

California License Number: S6115

Mailing Address: P.O. Box 9121, Boise, ID 83707

Telephone: (208) 342-5989

Email: tsoppe@wegai.com

Certification Method

☐ GR-63-Core

☒ ICC-ES AC156

☐ IEEE 344

☐ IEEE 693

☐ NEBS 3

☐ Other (Please Specify):

Testing Laboratory

Company Name: CLARK TESTING LABORATORY, INC.

Contact Person: Devon Lohr

Mailing Address: 1801 Route 51, Jefferson Hills PA 15025

Telephone: (412) 387-1001

Email: dlohr@clarktesting.com

Company Name: ENVIRONMENTAL TESTING LABORATORIES, INC. (ETL)

Contact Person: Jeremy Lange

Mailing Address: 11034 Indian Trail, Dallas TX 75229-3513

Telephone: (972) 247-9657

Email: jeremy@etldallas.com

Company Name: UNIVERSITY OF BUFFALO (SEESL)

Contact Person: Yushan Fu

Mailing Address: 212 Ketter Hall, Buffalo NY 14260

Telephone: (716) 645-4377

Email: yushanfu@buffalo.edu



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Seismic Parameters

Certified Response Spectral Acceleration Factors: (F_p/W_p)

Horizontal (A Flx-H), $g =$ 3.20 (A Rig-H), $g =$ 2.15

Vertical (A Flx-V), $g =$ 1.67 (A Rig-V), $g =$ 0.67

SDS (Design spectral response acceleration at short period, g) = 2.5 at $z/h = 0$; 2.0 at $z/h = 1$

H_f (Force amplification height factor) = 1 @ $z/h = 0$; 3.5 @ $z/h = 1$

R_u (Structure ductility reduction factor) = 1 @ $z/h = 0$; 1.3 @ $z/h = 1$

I_p (Importance factor) = 1.5

z/h (Height ratio factor) = 1

HCAI Approval (For Office Use Only) - Approval Expires on 08/19/2032

Date: 8/19/2026

Name: Mohammad Karim

Title: Supervisor, Health Facilities

Condition of Approval (if applicable): _____

OSP-0320

BY: Mohammad Karim

DATE: 08/19/2026

TABLE 1		ABB, INC. SPEC SETTER AND EVERGOLD SOLAR SAFETEY SWITCHES CERTIFIED PRODUCT LINE MATRICES					
ID/Catalog Number ¹	Ampere Rating	NEMA ² Rating	Equipment Dimensions			Weight (lbs)	Representative UUT ³
			Width (in)	Depth (in)	Height (in)		
TGxxx, THxxx, TCxxx, TSxxx	30-100	1 / 3R / 5 / 12 / 4 / 4X	6.0 - 13.4	3.0 - 5.7	10.0 - 35.0	12 - 38	interpolated
TGN3323R	100	3R	9.0	5.0	16.0	12	UUT _y -1
TH3364SSVW	200	4X	14.5	6.0	35.0	48	UUT _x -14
TGxxx, THxxx, TCxxx, TSxxx	100-600	1 / 3R / 5 / 12 / 4 / 4X	13.4 - 25.0	5.2 - 8.0	10.0 - 60.0	38 - 200	interpolated
TH3365	400	1	23.0	8.0	54.0	122	UUT _x -10
TH3366SS	600	4X	25.0	8.0	60.0	194	UUT _x -11
THF4327ARCNVWZ	800	3R	33.3	11.3	71.4	292	UUT _w -1
TC72367	800	1	42.0	12.0	62.0	340	UUT _z -9
TC72367	800	1	42.0	12.0	62.0	330	UUT _z -10
TGxxx, THxxx, TCxxx, TSxxx	800-1200	4 / 4X	31.0 - 48.0	11.0 - 13.0	52.0 - 77.0	200-410	interpolated
THF4368AXVWZ	1200	4X	47.7	11.8	75.7	406	UUT _w -2
TGxxx, THxxx, TCxxx, TSxxx	800-1200	1 / 3R / 5 / 12	31.0 - 47.0	11.0 - 13.0	52.0 - 77.0	200-530	interpolated
TC72368	1200	1	47.0	13.0	77.0	514	UUT _z -7
TC72368	1200	1	47.0	13.0	77.0	513	UUT _z -8
General Notes: ¹ All components are manufactured by ABB, Inc. unless noted. The part numbers listed uniquely identify the type of component, manufacturer, and material of construction for each sub-component with the tested units. TG - General Duty / TH - Heavy Duty / TC - Double Throw / TS - Solar Duty ² NEMA 1/3R/5/12 enclosures are constructed of carbon steel and NEMA 4/4X enclosures are constructed of stainless steel. ³ Subscript indicates the test report in which the units were qualified: w - 2026-04 / x - 16380 / y - 10282 / z - 19-01143-1							

TABLE 2		ABB, INC. SPEC SETTER AND EVERGOLD SOLAR SAFETY SWITCHES CERTIFIED SUBCOMPONENT MATRICES		 W.E. GUNDY & ASSOCIATES, INC. STRUCTURAL & EARTHQUAKE ENGINEERING
Identification Number	Manufacturer	Description	Approximate Weights (lbs)	Representative UUT ¹
Switch Base Assembly				
139C5071Gxx	ABB	30A	1.6	Extrapolated
139C5072Gxx		60A	2.7	Extrapolated
139C5072Gxx		100A	2.7	UUT _y -1
139C4030Gxx		200A	6.1	UUT _x -14
21020710674Axx		400A	28	UUT _x -10
21020710675Axx		600A	33	UUT _x -11
139C3700G18		800A	28	UUT _z -9 / UUT _z -10
139C3700G20		1200A	44	UUT _z -7 / UUT _z -8
21020710672Axx		800A	60	UUT _w -1
21020710775Axx		1200A	85	UUT _w -2
Mechanism Assembly				
139C3768Gxx	ABB	30A	1.1	Extrapolated
139C3768Gxx		60A	1.2	Extrapolated
139C3768Gxx		100A	1.2	UUT _y -1
567B769Gxx		200A	1.6	UUT _x -14
21020710680Axx		400A/600A/800A/1200A	1.8	UUT _w -1 / UUT _w -2
455C412Gxx		400A	7.8	UUT _x -10
455C412Gxx		600A	7.8	UUT _x -11
315A7092G1		800A	6.6	UUT _z -9 / UUT _z -10
315A7092G1		1200A	6.6	UUT _z -7 / UUT _z -8
Load Base Assembly				
569B384Gxx	ABB	30A	0.6	Extrapolated
569B392Gxx		60A	1.4	Extrapolated
569B392Gxx		100A	1.4	UUT _y -1
192A8146Gxx		200A	1.4	UUT _x -14
21020710683Axx		400A	4.0	UUT _x -10
2105768502Axx		800A	5.0	UUT _w -1
21020709778Gxx		1200A	6.0	UUT _w -2
21020710684Axx		600A	9.0	UUT _x -11
139C3700G18		800A	11.1	UUT _z -9 / UUT _z -10
139C3700G20		1200A	19.1	UUT _z -7 / UUT _z -8
General Notes:				
¹ Subscript indicates the test report in which the units were qualified: w - 2026-04 / x - 16380 / y - 10282 / z - 19-01143-1				

Mounting Details: Wall bolted bracket mounted with (6) 3/8" diameter grade 8 bolts



DATE: 08/19/2026

Manufacturer: ABB, Inc.	Test Location: SEESL (Buffalo, NY)
Product Line: Spec Setter / Evergold Solar Safety Switches	Test Date: April 6-9, 2026
Identification Number: THF4327ARCNVWZ	Report Number: 2026-04
UUT Function: Heavy Duty Safety Switch	
UUT Description: The unit is a wall mounted heavy duty safety switch with a NEMA 3R enclosure and a rating of 800A.	
UUT Component Description: NEMA 3R carbon steel enclosure with 800A Switch Base Assembly (21020710672Axx), 800A Mechanism Assembly (21020710680Axx), and 800A Load Base Assembly (2105768502Axx).	

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Enclosure Width	Enclosure Depth	Enclosure Height	FB	SS	V
292	33.3	11.3	71.4	NA	NA	NA

SEISMIC TEST PARAMETERS - CBC 2025 / ICC-ES AC 156-24

	S _{DS} (g)	I _p	z / h	H _f	R _μ	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
	2.00	1.5	1.0	3.5	1.30	3.2g	2.15g	-	-
	2.50		0.0	1.0	1.00	-	-	1.68g	0.68g

Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test.

Mounting Details: Wall bolted bracket mounted with (6) 3/8" diameter grade 8 bolts



DATE: 08/19/2026

Manufacturer: ABB, Inc.	Test Location: SEESL (Buffalo, NY)
Product Line: Spec Setter / Evergold Solar Safety Switches	Test Date: April 6-9, 2026
Identification Number: THF4368AXVWZ	Report Number: 2026-04
UUT Function: Heavy Duty Safety Switch	

UUT Description: The unit is a wall mounted heavy duty safety switch with a NEMA 4X enclosure and a rating of 1200A.

UUT Component Description: NEMA 4X stainless steel enclosure with 1200A Switch Base Assembly (21020710775Axx), 1200A Mechanism Assembly (21020710680Axx), and 1200A Load Base Assembly (21020709778Gxx).

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Enclosure Width	Enclosure Depth	Enclosure Height	FB	SS	V
406	47.7	11.8	75.7	NA	NA	NA

SEISMIC TEST PARAMETERS - CBC 2025 / ICC-ES AC 156-24

	S _{DS} (g)	I _p	z / h	H _f	R _μ	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
	2.00	1.5	1.0	3.5	1.30	3.2g	2.15g	-	-
	2.50		0.0	1.0	1.00	-	-	1.68g	0.68g

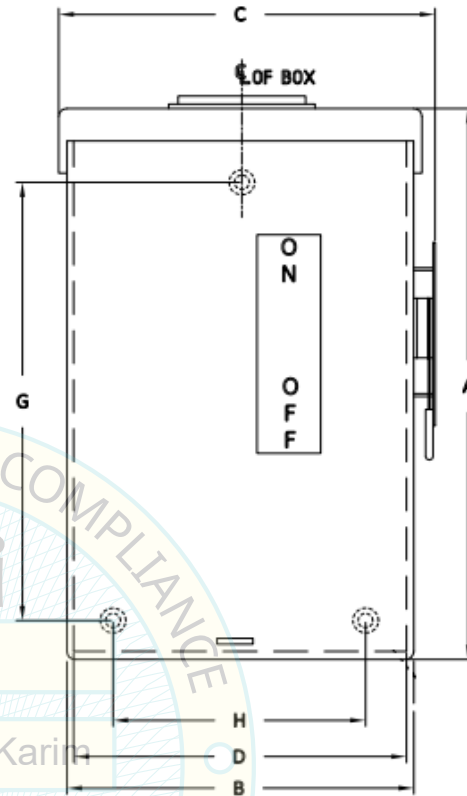
Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test.

UUT_y-1

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Wall through bolt mounted with (3) 10-32 grade 5 bolts



OSP-0320

BY: Mohammad Karim

DATE: 08/19/2026

Manufacturer: ABB, Inc. **Test Location:** Clark Testing Laboratory

Product Line: Spec Setter / Evergold Solar Safety Switches **Test Date:** August 6-17, 2012

Identification Number: TGN3323R **Report Number:** 10282

UUT Function: General Duty Safety Switch

UUT Description: The unit is a through bolt wall mounted general duty safety switch with a NEMA type 3R enclosure and a rating of 100A.

UUT Component Description: NEMA 3R carbon steel enclosure with ABB 100A Switch Base Assembly (139C5072Gxx), 100A Switch Base Assembly (139C3768Gxx), and 100A Switch Base Assembly (569B392Gxx).

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Enclosure Width	Enclosure Depth	Enclosure Height	FB	SS	V
12	9.0	5.0	16.0	NA	NA	NA

SEISMIC TEST PARAMETERS - CBC 2025 / ICC-ES AC 156-24

	S _{DS} (g)	I _p	z / h	H _f	R _μ	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
	2.00	1.5	1.0	3.5	1.30	3.2g	2.15g	-	-
	2.50		0.0	1.0	1.00	-	-	1.68g	0.68g

Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test.

Mounting Details: Wall bolted bracket mounted with (6) 3/8" diameter grade 5 bolts



Manufacturer: ABB, Inc.	Test Location: Clark Testing Laboratory
Product Line: Spec Setter / Evergold Solar Safety Switches	Test Date: September 16-19, 2019
Identification Number: TC72368	Report Number: 19-01143-1
UUT Function: Heavy Duty Safety Switch	

UUT Description: The unit is a bolted bracket wall mounted heavy duty safety switch with a NEMA type 1 enclosure and a rating of 1200A.

UUT Component Description: NEMA 1 carbon steel enclosure with ABB 1200A Switch Base Assembly (139C3700G20), 1200A Switch Base Assembly (315A7092G1), and 1200A Switch Base Assembly (139C3700G20).

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Enclosure Width	Enclosure Depth	Enclosure Height	FB	SS	V
514	47.0	13.0	77.0	NA	NA	NA

SEISMIC TEST PARAMETERS - CBC 2025 / ICC-ES AC 156-24

	S _{DS} (g)	I _p	z / h	H _f	R _μ	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
	2.00	1.5	1.0	3.5	1.30	3.2g	2.15g	-	-
	2.50		0.0	1.0	1.00	-	-	1.68g	0.68g

Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test.

Mounting Details: Wall bolted bracket mounted with (6) 3/8" diameter grade 5 bolts



Manufacturer: ABB, Inc.	Test Location: Clark Testing Laboratory
Product Line: Spec Setter / Evergold Solar Safety Switches	Test Date: September 16-19, 2019
Identification Number: TC72368	Report Number: 19-01143-1
UUT Function: Heavy Duty Safety Switch	

UUT Description: The unit is a bolted bracket wall mounted heavy duty safety switch with a NEMA type 1 enclosure and a rating of 1200A.

UUT Component Description: NEMA 1 carbon steel enclosure with ABB 1200A Switch Base Assembly (139C3700G20), 1200A Switch Base Assembly (315A7092G1), and 1200A Switch Base Assembly (139C3700G20).

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Enclosure Width	Enclosure Depth	Enclosure Height	FB	SS	V
513	47.0	13.0	77.0	NA	NA	NA

SEISMIC TEST PARAMETERS - CBC 2025 / ICC-ES AC 156-24

	S _{DS} (g)	I _p	z / h	H _f	R _μ	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
	2.00	1.5	1.0	3.5	1.30	3.2g	2.15g	-	-
	2.50		0.0	1.0	1.00	-	-	1.68g	0.68g

Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test.

Mounting Details: Wall bolted bracket mounted with (6) 3/8" diameter grade 5 bolts



DATE: 08/19/2026

Manufacturer: ABB, Inc.	Test Location: Clark Testing Laboratory
Product Line: Spec Setter / Evergold Solar Safety Switches	Test Date: September 16-19, 2019
Identification Number: TC72367	Report Number: 19-01143-1
UUT Function: Heavy Duty Safety Switch	

UUT Description: The unit is a bolted bracket wall mounted heavy duty safety switch with a NEMA type 1 enclosure and a rating of 800A.

UUT Component Description: NEMA 1 carbon steel enclosure with ABB 800A Switch Base Assembly (139C3700G18), 800A Switch Base Assembly (315A7092G1), and 800A Switch Base Assembly (139C3700G18).

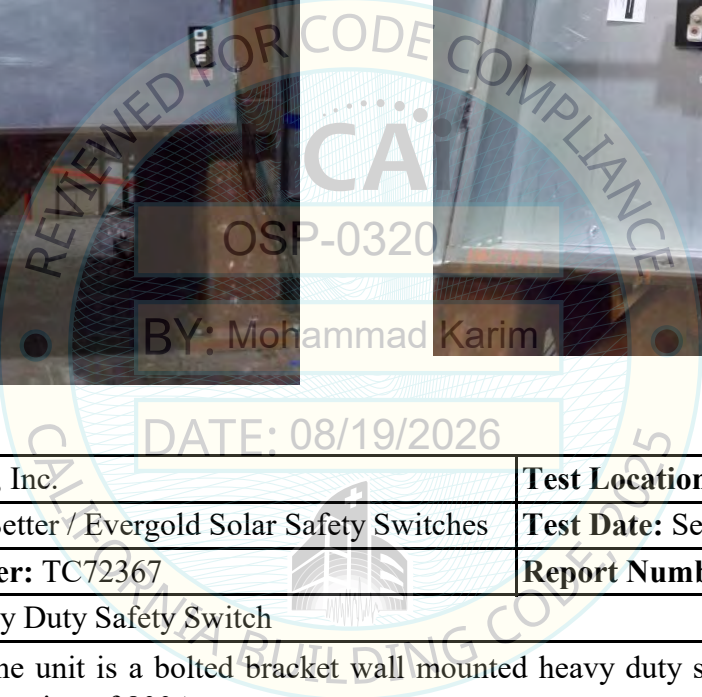
UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Enclosure Width	Enclosure Depth	Enclosure Height	FB	SS	V
340	42.0	12.0	62.0	NA	NA	NA

SEISMIC TEST PARAMETERS - CBC 2025 / ICC-ES AC 156-24

	S _{DS} (g)	I _p	z / h	H _f	R _μ	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
	2.00	1.5	1.0	3.5	1.30	3.2g	2.15g	-	-
	2.50		0.0	1.0	1.00	-	-	1.68g	0.68g

Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test.

UUT_z-10	UNIT UNDER TEST (UUT) SUMMARY SHEET			 WEGAI W.E. GUNDY & ASSOCIATES, INC. STRUCTURAL & EARTHQUAKE ENGINEERING					
Mounting Details: Wall bolted bracket mounted with (6) 3/8" diameter grade 5 bolts									
   REVIEWED FOR CODE COMPLIANCE OSP-0320 BY: Mohammad Karim DATE: 08/19/2026									
Manufacturer: ABB, Inc.				Test Location: Clark Testing Laboratory					
Product Line: Spec Setter / Evergold Solar Safety Switches				Test Date: September 16-19, 2019					
Identification Number: TC72367				Report Number: 19-01143-1					
UUT Function: Heavy Duty Safety Switch									
UUT Description: The unit is a bolted bracket wall mounted heavy duty safety switch with a NEMA type 1 enclosure and a rating of 800A.									
UUT Component Description: NEMA 1 carbon steel enclosure with ABB 800A Switch Base Assembly (139C3700G18), 800A Switch Base Assembly (315A7092G1), and 800A Switch Base Assembly (139C3700G18)..									
UUT PROPERTIES									
Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)					
	Enclosure Width	Enclosure Depth	Enclosure Height	FB	SS	V			
330	42.0	12.0	62.0	NA	NA	NA			
SEISMIC TEST PARAMETERS - CBC 2025 / ICC-ES AC 156-24									
	S_{DS} (g)	I_p	z / h	H_f	R_μ	A_{FLX-H}	A_{RIG-H}	A_{FLX-V}	A_{RIG-V}
	2.00	1.5	1.0	3.5	1.30	3.2g	2.15g	-	-
	2.50		0.0	1.0	1.00	-	-	1.68g	0.68g
Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test.									



REVIEWED FOR CODE COMPLIANCE

HCAi

OSP-0320

BY: Mohammad Karim

DATE: 08/19/2026

Sample Store

UUT Description: The unit is a bolted bracket wall mounted heavy duty safety switch with a NEMA type 1 enclosure and a rating of 400A.

UUT Component Description: NEMA 1 carbon steel enclosure with ABB 400A Switch Base Assembly (21020710674Axx), 400A Switch Base Assembly (455C412Gxx), and 400A Switch Base Assembly (21020710683Axx).

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Enclosure Width	Enclosure Depth	Enclosure Height	FB	SS	V
122	23.0	8.0	54.0	NA	NA	NA

	S _{DS} (g)	I _p	z / h	H _f	R _μ	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
	2.00	1.5	1.0	3.5	1.30	3.2g	2.15g	-	-
	2.50		0.0	1.0	1.00	-	-	1.68g	0.68g

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UNIT UNDER TEST (UUT) SUMMARY SHEET		 W.E. GUNDY & ASSOCIATES, INC. STRUCTURAL & EARTHQUAKE ENGINEERING							
UUT_x-11									
Mounting Details: Wall bolted bracket mounted with (5) 5/16" diameter grade 5 bolts									
									
Manufacturer: ABB, Inc.		Test Location: ETL (Dallas, TX)							
Product Line: Spec Setter / Evergold Solar Safety Switches		Test Date: October 4-7, 2021							
Identification Number: TH3366SS		Report Number: 16380							
UUT Function: Heavy Duty Safety Switch									
UUT Description: The unit is a bolted bracket wall mounted heavy duty safety switch with a NEMA 4X enclosure and a rating of 600A.									
UUT Component Description: NEMA 4X stainless steel enclosure with ABB 600A Switch Base Assembly (21020710675Axx), 600A Switch Base Assembly (455C412Gxx), and 600A Switch Base Assembly (21020710684Axx).									
UUT PROPERTIES									
Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)					
	Enclosure Width	Enclosure Depth	Enclosure Height	FB	SS	V			
194	25.0	8.0	60.0	NA	NA	NA			
SEISMIC TEST PARAMETERS - CBC 2025 / ICC-ES AC 156-24									
	S _{DS} (g)	I _p	z / h	H _f	R _μ	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
	2.00	1.5	1.0	3.5	1.30	3.2g	2.15g	-	-
	2.50		0.0	1.0	1.00	-	-	1.68g	0.68g
Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test.									

UUT_x-14	UNIT UNDER TEST (UUT) SUMMARY SHEET								
Mounting Details: Wall bolted bracket mounted with (3) 1/4" diameter grade 5 bolts									
 									
Manufacturer: ABB, Inc.				Test Location: ETL (Dallas, TX)					
Product Line: Spec Setter / Evergold Solar Safety Switches				Test Date: October 4-7, 2021					
Identification Number: TH3364SSVW				Report Number: 16380					
UUT Function: Heavy Duty Safety Switch									
UUT Description: The unit is a bolted bracket wall mounted heavy duty safety switch with a NEMA 4X enclosure and a rating of 200A. The enclosure includes a viewing window.									
UUT Component Description: NEMA 4X stainless steel enclosure with 200A Switch Base Assembly (139C4030Gxx), 200A Switch Base Assembly (567B769Gxx), and 200A Switch Base Assembly (192A8146Gxx).									
UUT PROPERTIES									
Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)					
	Enclosure Width	Enclosure Depth	Enclosure Height	FB	SS	V			
48	14.5	6.0	35.0	NA	NA	NA			
SEISMIC TEST PARAMETERS - CBC 2025 / ICC-ES AC 156-24									
	S_{DS} (g)	I_p	z / h	H_f	R_μ	A_{FLX-H}	A_{RIG-H}	A_{FLX-V}	A_{RIG-V}
	2.00		1.0	3.5	1.30	3.2g	2.15g	-	-
	2.50		0.0	1.0	1.00	-	-	1.68g	0.68g
Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test.									