



Certification Matters

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 **ATOM POWER**



Session 3: *How Changing Standards and Codes
Impact You / Distinguished Lecturer*
February 24, 2021

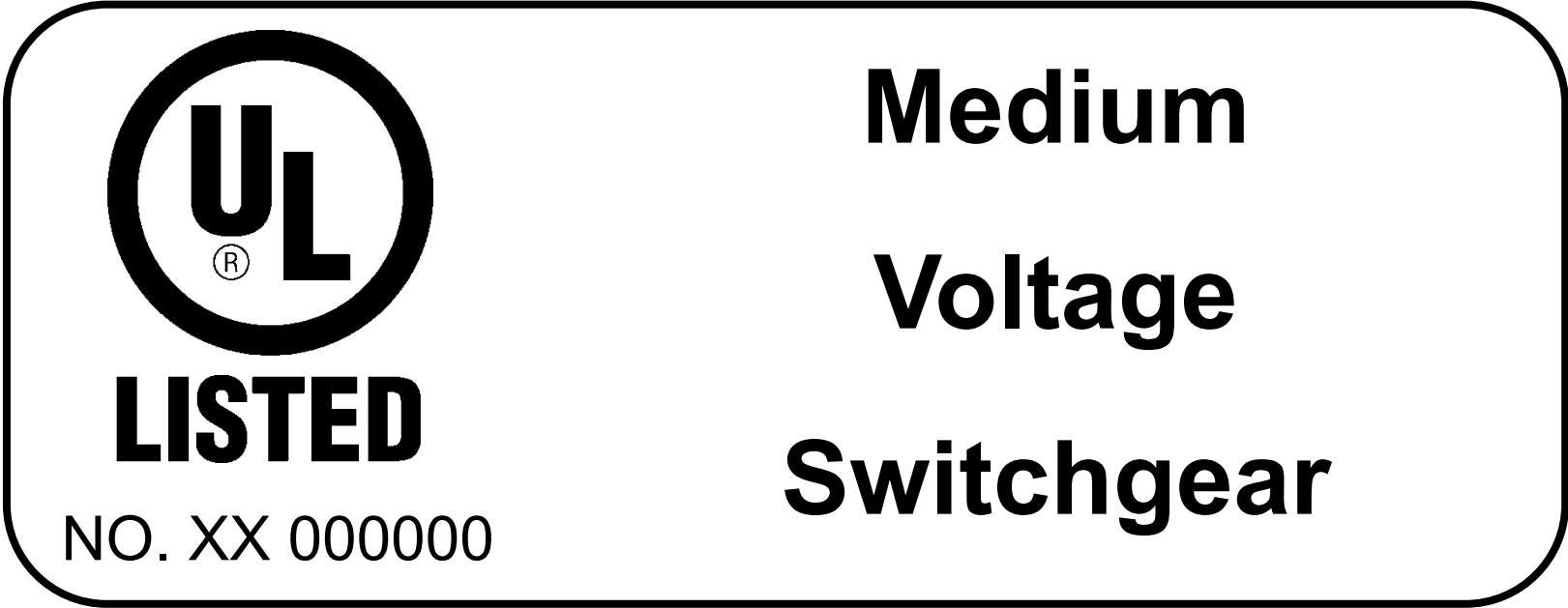
Today's Topics

- 1) UL Listed vs. UL Field Evaluation
- 2) Value of Independent Lightning Protection Verification
- 3) UL Product iQ



US Electrical Safety System

AHJ's rely on third-party product certification for Code enforcement.



AHJ's look for the UL Mark



Listed vs. Unlisted equipment

Listed:

- Complies with U.S. safety standard
- Hazards reduced
- Production verified
- Installation Code compliant
- Reduced liability

Unlisted or CE Mark:

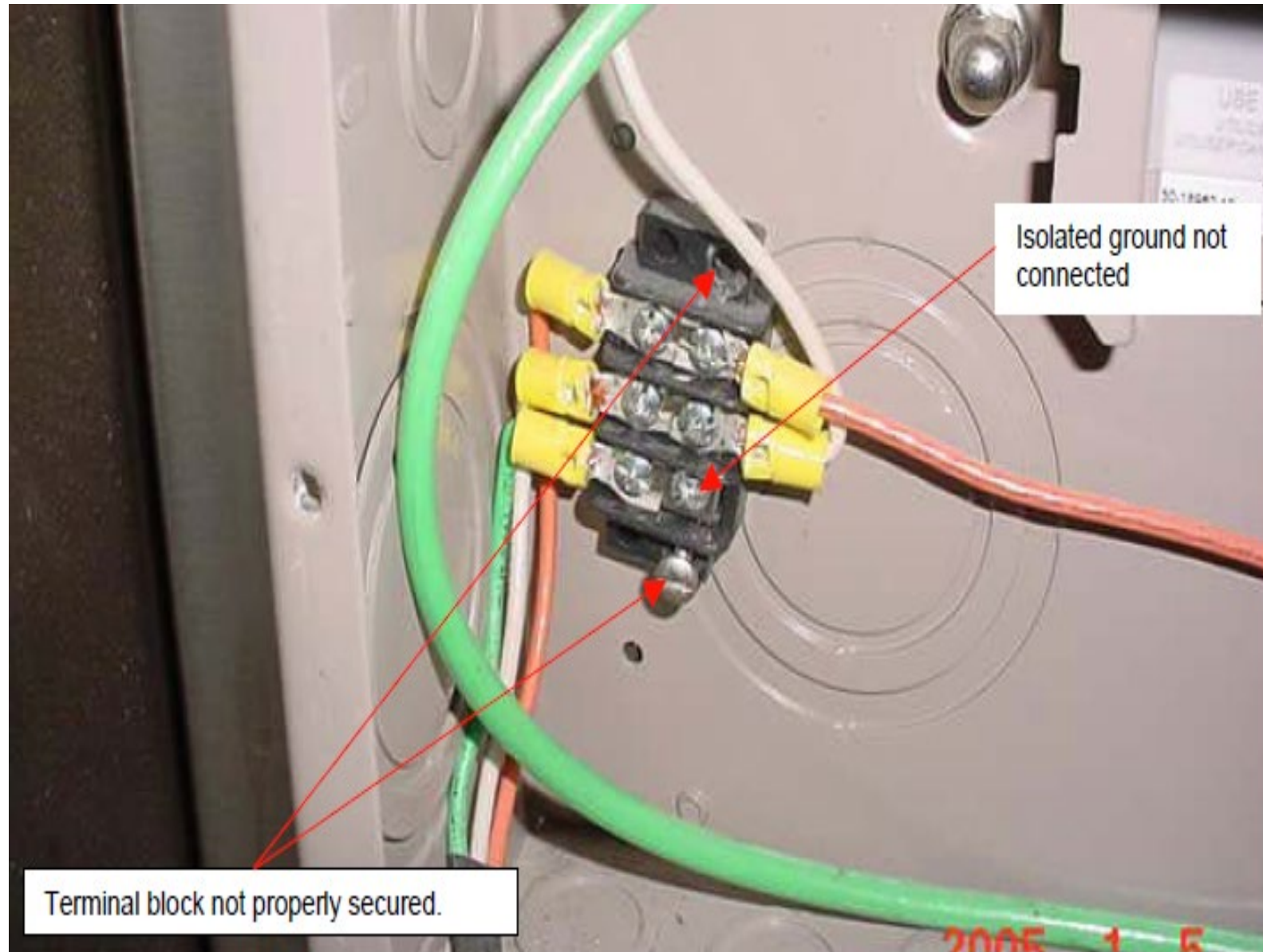
- Unknown hazards
- Can be sold in Europe



Why are Field Evaluations Needed?



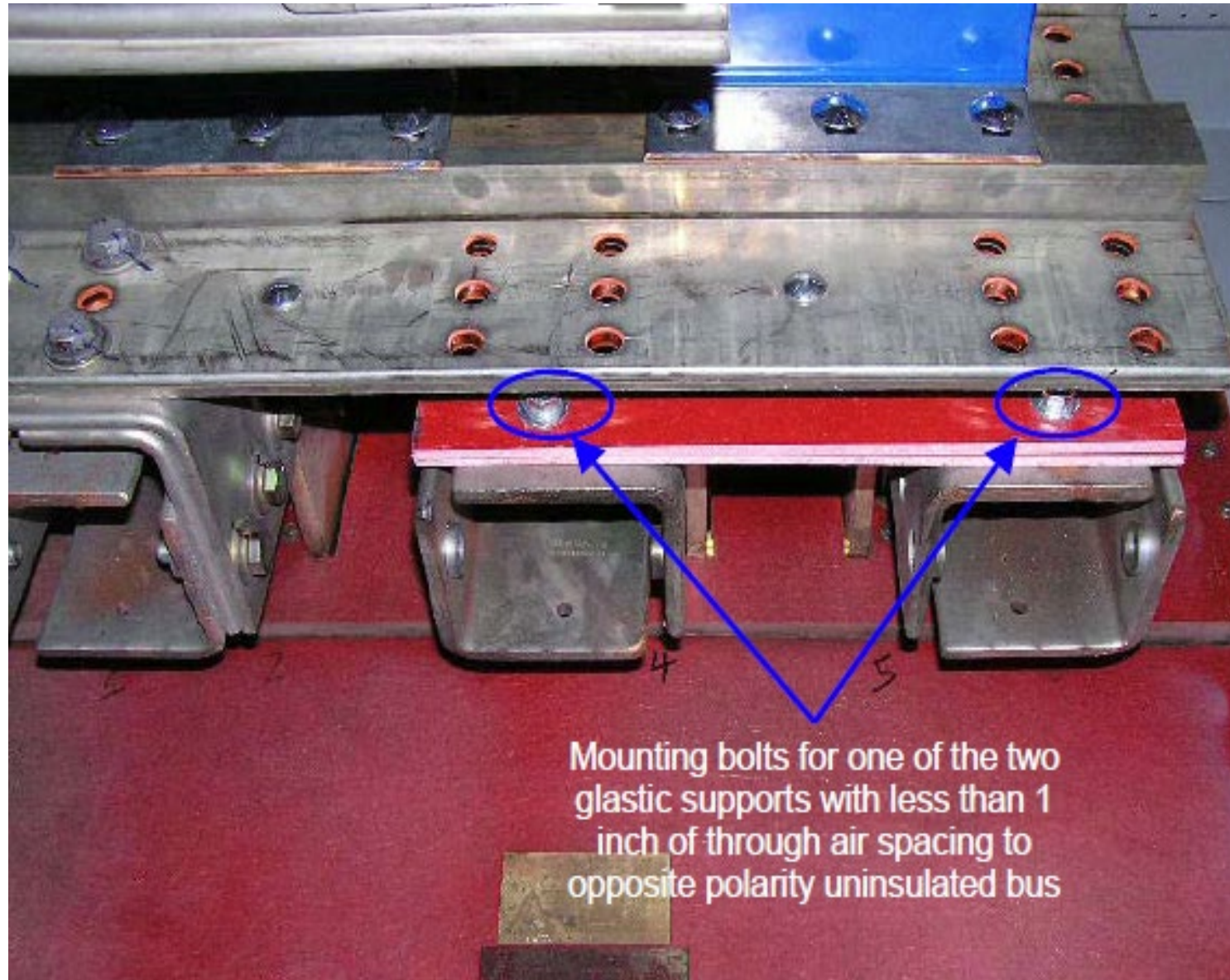
Grounding and Bonding



Terminals Evaluated Only for a Single Conductor



Inadequate Spacings



Mounting bolts for one of the two
glastic supports with less than 1
inch of through air spacing to
opposite polarity uninsulated bus



Detailed Field Evaluation Report



Central Region
Northbrook Office
333 Pfingsten Road
Northbrook, IL 60062
www.ul.com/field
tel: 1 877-UL-HELPS

Final Report

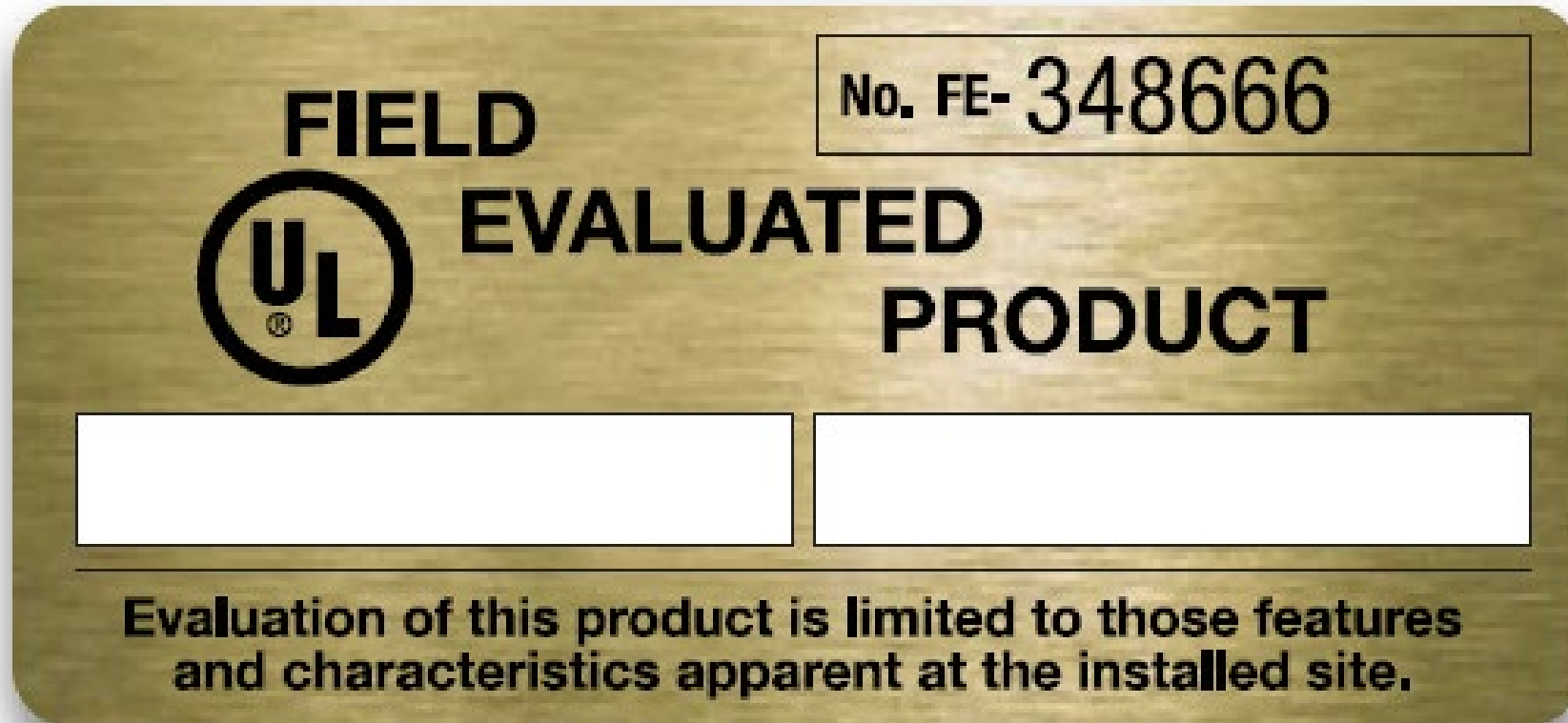
For

Vertical MCC Sections

Installation Site:

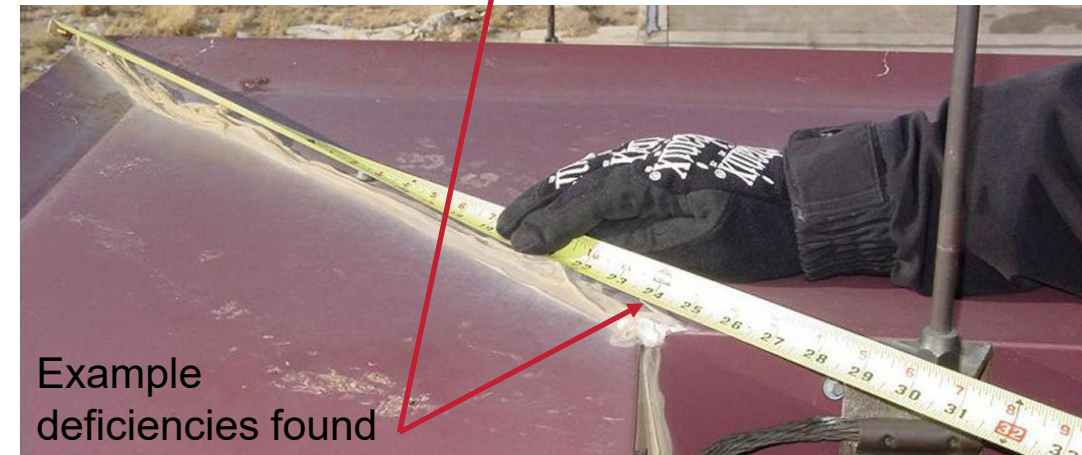


UL Field Evaluation Label



Lightning Protection Systems Post-installation – certification

- Certification allows for 3rd party verification that the lightning protection system was designed and installed compliant with the specified standard
- Beware of “Self-Certification” by the installing contractor, approximately 75% of installations inspected have required some sort of repair or modification to comply with the standards specified
- Utilize an IAS (International Accreditation Service)-accredited inspection agency who will provide an unbiased review and inspection of the installed system
- Systems should be inspected periodically, no less than every 3 – 5 years



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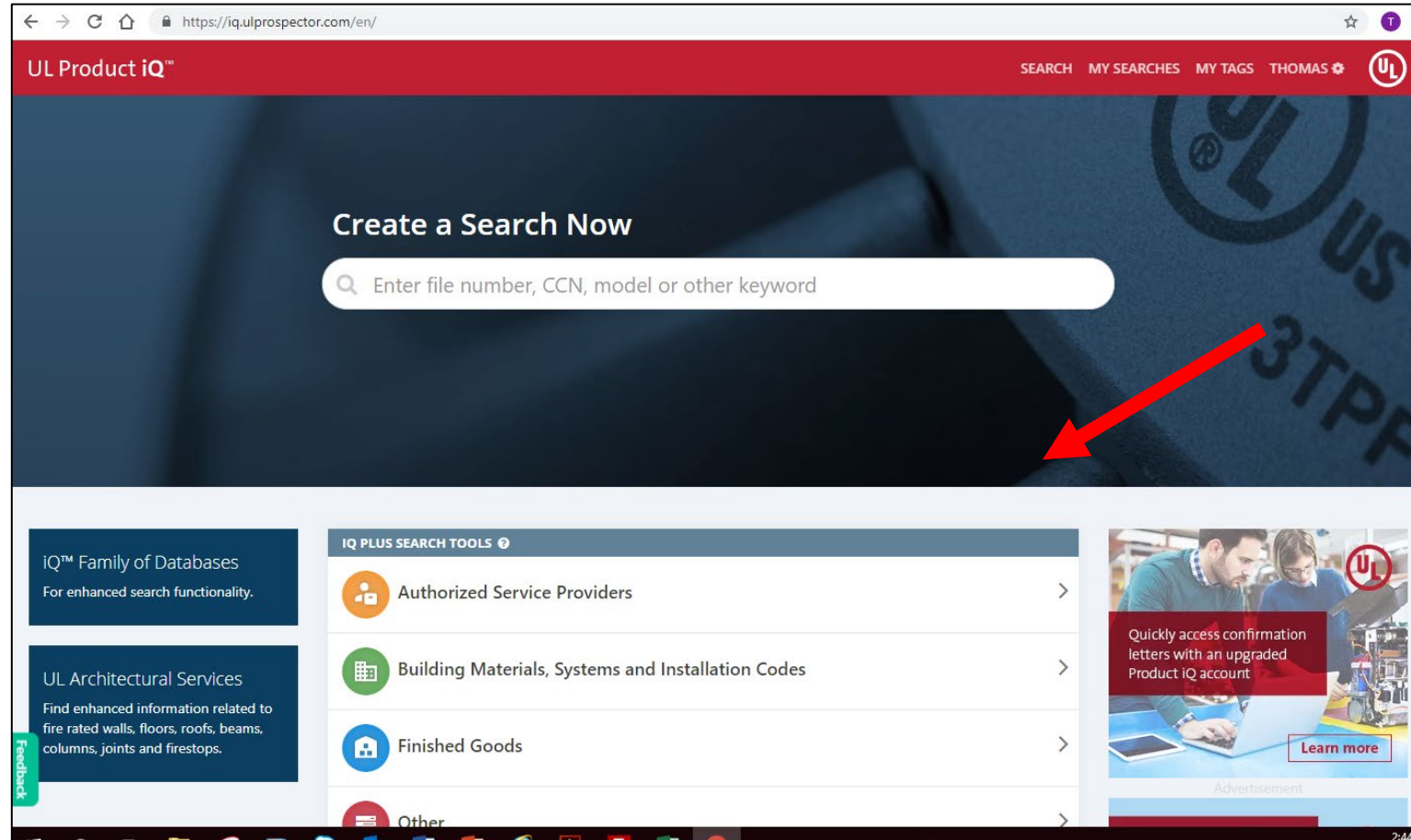
UL Product iQ™ Features

Type here to search

4:07 PM 2/10/2020



Keyword Search- One Field For Almost Everything



Enter UL Certification Category Number (CCN) or Keyword Search

For Example:

- To help with finding DC rated SPDC rated SPDs, type in “DC” in the keyword field



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DLAH.E143324 - CIRCUIT BREAKERS AND METAL-CLAD SWITCHGEAR OVER 1000 VOLTS

DETAILS
File No.: E143324
UL Category (CCN): [DLAH](#)
Document Type: Listing
Parent Category (CCN): [DLAD](#)

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Document **Company Information**  

Circuit Breakers and Metal-clad Switchgear Over 1000 Volts

[See General Information for Circuit Breakers and Metal-clad Switchgear Over 1000 Volts](#)

ABB INC POWER TECHNOLOGY PRODUCTS MEDIUM VOLTAGE E143324
655 Century Pt
Lake Mary, FL 32746 USA

Arc-Resisant switchgear, Type *SAFEGEAR* (Rated maximum 3000A, 4000A, max with forced air ventilation, 1000 MVA, 15KV.
Metal clad switchgear, Type *HK-II* (Rated 3000A, 1000MVA, 15kV max, and Type *ADVANCE* (Rated 3000A, 1000MVA, 27kV max.
Arc-resisant switchgear, Type *SAFEGEAR HD*.
Medium voltage switchgear, Model "*Reliagear ND*".
Metal clad switchgear, Models "*Advance 63kA*".

Last Updated on 2018-02-01

Thank you!



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