



# Thomas & Betts

## ANALYSIS OF NEC ®

2017 Code Changes: Article Article 425 (NEW) Fixed Resistance and Electrode Industrial Process Heating Equipment  
Article 425 (NEW) Fixed Resistance and Electrode Industrial Process Heating Equipment

**Thomas&Betts**  
A Member of the ABB Group

© 2017 Thomas & Betts. Specifications are subject to change without notice.

# Article 425 (NEW) Fixed Resistance and Electrode Industrial Process Heating Equipment

## Article 425 (NEW) Fixed Resistance and Electrode Industrial Process Heating Equipment

**425.1 Scope.** This Article covers fixed industrial process heating employing electric resistance or electrode handling technology. For the purpose of this article, heating equipment shall include boilers, electric boilers, duct heaters strip heaters, immersion heaters, process air heaters, and other approved fixed electric equipment used for industrial process heating. This article shall not apply to heating and room air condition for personal spaces covered by Article 424, fixed heating equipment for pipelines and vessels covered by Article 427, and induction and dielectric heating equipment covered by Article 427, and induction and dielectric heating equipment covered by Article 665, and industrial furnaces incorporating silicon carbide, molybdenum, or graphite process heating elements.

### Analysis of the Change

New Article 425 Fixed Resistance and Electrode Industrial Process Heating Equipment was added to the 2017 NEC. The Code did not completely address requirements for industrial process heating equipment such as boilers, duct heaters, strip heaters, immersion heaters, process air heaters as well as other approved fixed electric equipment used in industrial applications. This article does not cover fixed heating equipment for pipelines and vessels covered by Article 427, and induction and dielectric heating equipment covered in Article 665 as well as other heating apparatus.

### Products

ABB HVAC Drive ACH580, ABB Complete Air to Air Heat Exchange, ABB Strip Heater, ABB BoilerMax



# Contact Us

If you have any questions or require interpretation assistance, please contact the following:

David Kendall ..... 1-800-888-0211 Ext. 8879

Greg Steinman ..... 1-800-888-0211 Ext. 5719

Jean Blanc ..... 1-800-888-0211 Ext. 5670

Thomas & Betts Corporation

8155 T&B Blvd.

Memphis, TN 38125

[www.tnb.com](http://www.tnb.com)

Disclaimer: This is not intended to be an iteration of all the changes, but a reference of a change that may affect the Thomas & Betts, ABB & Baldor product lines. For a more in-depth document, please contact the International Association of Electrical Inspectors at [www.iaei.org](http://www.iaei.org).

Material taken from the National Electrical Code is reprinted with permission from NFPA 70®-2017, National Electrical Code®, Copyright © 2016, National Fire Protection Association, Quincy, MA. This material is not the official position of the NFPA on the referenced subject, which is represented only by the standard in its entirety.

National Electrical Code® and NEC® are registered trademarks of the National Fire Protection Association, Quincy, MA.

The National Fire Protection Association did not produce, review or approve this publication and assumes no responsibility for the application or use of any NEC related material or product set out herein.

Do not duplicate any part of this publication without the permission of a member of the Industry Affairs Group of Thomas & Betts.



**Thomas&Betts**  
A Member of the ABB Group