Seismic Transformers

The Transformer Authority

Jefferson Electric Offers Seismic Qualified Transformers!

Many construction projects and their components are now required to be “seismic qualified.” Places like healthcare facilities, emergency response locations (fire stations, police stations) and other critical government facilities may also be required to be “seismic qualified.” A seismic qualification ensures the component will withstand and operate after an earthquake.

In order to meet seismic qualifications, Jefferson Electric’s transformers went through rigorous testing to meet the International Building Code (2006/2009 IBC) and the California Building Code (2007/2010 CBC) requirements. Each test was met in accordance with ICC-ES AC156 seismic qualifications.

Single & Three-Phase Encapsulated

- Wall mount 1 kVA to 25 kVA
- Floor mount 3kVA to 75 kVA
- NEMA 3R enclosures
- S_{DS}=2.00g ; z/h = 1.00 ; I_p = 1.5

Single-Phase Ventilated

- Floor mount 1 kVA to 167 kVA
- NEMA 1 or 3R enclosures
- S_{DS}=1.60g ; z/h = 1.00 ; I_p = 1.5

Three-Phase Ventilated

- Floor mount 1 kVA to 1000 kVA
- NEMA 1 or 3R enclosures
- S_{DS}=1.60g ; z/h = 1.00 ; I_p = 1.5

Totally Enclosed Non Ventilated

- Floor Mount 1kVA to 500kVA
- Single & Three-Phase
- NEMA 1 or 3R Enclosures
- S_{DS}=1.60g ; z/h = 1.00 ; I_p = 1.5

As required by the California Office of Statewide Planning and Development (OSHPD), seismic testing must be completed by an independent laboratory. Jefferson Electric chose Tobolski Watkins Engineering Inc. for testing. Results are filed with OSHPD per OSP-0109-10.

The product nameplate on qualified products will show the following logo:

SEISMIC QUALIFIED

SDS = 1.60g, 2/h=1.0
OSHPD OSP-0109-10