



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-0008

HCAI Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: Eaton Corporation

Manufacturer's Technical Representative: Alberto Moreno

Mailing Address: Av. Hermanos Escobar 7014, Parque Industrial Omega, Ciudad Juarez 32341

Telephone: (52656) 227-0400

Email: albertosandovalmoreno@eaton.com

Product Information

Product Name: DS-3, DT-3, KS, KT, EP, EPT Dry Type Transformers

Product Model Number(s): See attachments

Product Category: Transformers

Product Sub-Category: Transformers – Dry Type

General Description: Low Voltage Dry Type Distribution Transformers, 600V Maximum, Copper and Aluminum windings, ventilated (NEMA Type 2 and 3R), & encapsulated (NEMA Type 3R, 4 & 12).

Mounting Description: Several - See Certified Product Tables and UUT Sheet

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 & ASOCIATES INC.

Contact Person: Travis Soppe

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

Telephone: (208) 342-5989

Email: tsoppe@wegai.com

Title: President



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

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): _____

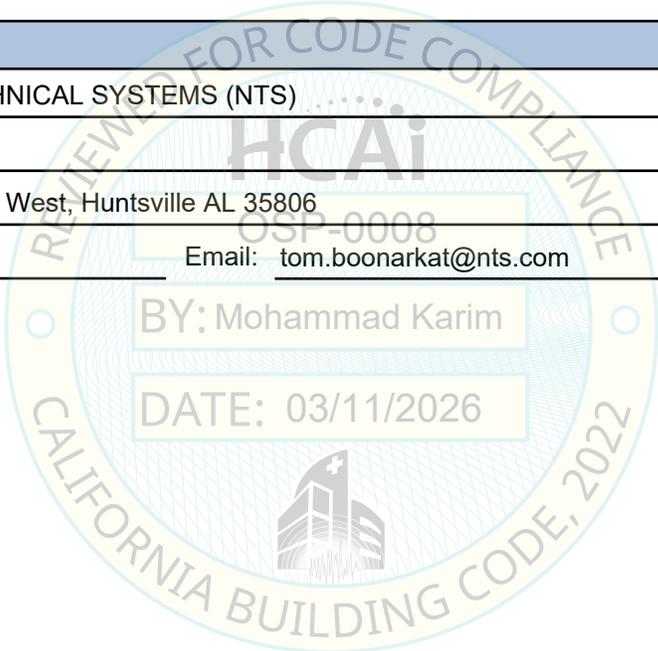
Testing Laboratory

Company Name: NATIONAL TECHNICAL SYSTEMS (NTS)

Contact Person: Tom Boonarkat

Mailing Address: 7800 Highway 20 West, Huntsville AL 35806

Telephone: (256) 837-4411 Email: tom.boonarkat@nts.com





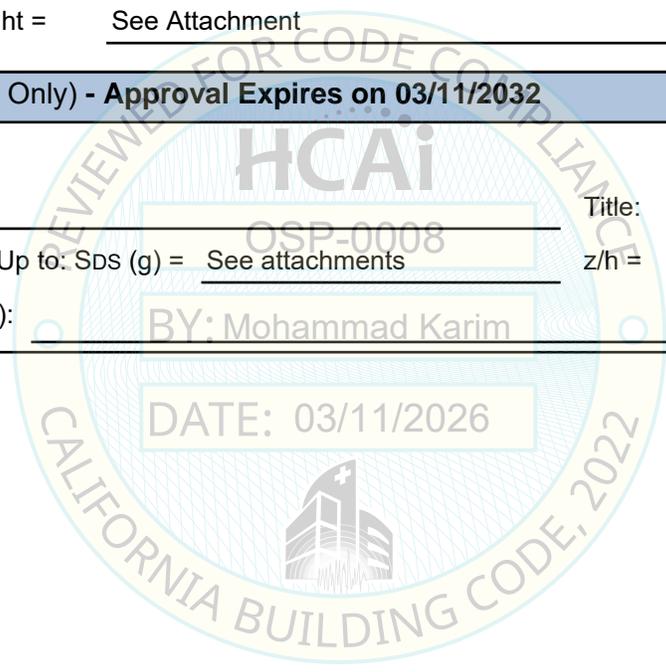
**DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT**

Seismic Parameters

| | |
|--|-----------------|
| Design Basis of Equipment or Components (F_p/W_p) = | See Attachments |
| SDS (Design spectral response acceleration at short period, g) = | See Attachments |
| a_p (Amplification factor) = | 1.0 |
| R_p (Response modification factor) = | 2.5 |
| Ω_0 (System overstrength factor) = | 2.5 |
| I_p (Importance factor) = | 1.5 |
| z/h (Height ratio factor) = | 0 and 1 |
| Natural frequencies (Hz) = | See Attachment |
| Overall dimensions and weight = | See Attachment |

HCAI Approval (For Office Use Only) - Approval Expires on 03/11/2032

| | | | |
|--|----------------------------------|---------|--------------------------------------|
| Date: | <u>3/11/2026</u> | | |
| Name: | <u>Mohammad Karim</u> | Title: | <u>Supervisor, Health Facilities</u> |
| Special Seismic Certification Valid Up to: | SDS (g) = <u>See attachments</u> | z/h = | <u>1</u> |
| Condition of Approval (if applicable): | <u>BY: Mohammad Karim</u> | | |



| TABLE 1 Floor Mounted | EATON VENTILATED/NON VENTILATED DRY TYPE DISTRIBUTION TRANSFORMERS CERTIFIED PRODUCT LINE MATRIX | | | | | | |  W.E. GUNDY & ASSOCIATES, INC. STRUCTURAL & EARTHQUAKE ENGINEERING | |
|--------------------------|--|--------|---------------|---------------------|-----------------------------|---------------|---------------|---|-----------------|
| | ¹ Model Line Identification | Phases | kVA Rating | Winding Material | ² NEMA Rating | Width (in) | Depth (in) | Height (in) | Weight (lbs) |

Table 1: - Vented / Non-Vented Dry Type Transformers- Floor Mounted

⁴Seismic Certification Limits: $S_{DS} = 2.10$ at $z/h = 1 : F_p = 1.51g$ and $S_{DS} = 2.50$ at $z/h = 0 : F_p = 1.13g$

| | | | | | | | | | |
|--|-----|------|--------|--------|------|------|------|------|---------------------|
| DT-3: MD05D92BES | 3 | 5 | AL | 2 | 20.3 | 14.5 | 25.3 | 156 | UUT _v -7 |
| DS-3 / DS-3E / KS-4 KS-9 / KS-13 / KS-20 KS-30 / KS-40 / KS-50 | 1 | 5 | AL | 2 / 3R | 16.9 | 15.8 | 30.3 | 180 | Interpolated |
| | 1 | 7.5 | AL | 2 / 3R | 22.6 | 19.5 | 37.5 | 190 | |
| | 1 | 9 | AL | 2 / 3R | 22.6 | 19.5 | 37.5 | 320 | |
| | 1 | 10 | AL | 2 / 3R | 22.6 | 19.5 | 37.5 | 325 | |
| | 1 | 15 | AL | 2 / 3R | 22.6 | 19.5 | 37.5 | 380 | |
| | 1 | 20 | AL | 2 / 3R | 24.0 | 23.4 | 42.0 | 380 | |
| | 1 | 22.5 | AL | 2 / 3R | 23.9 | 20.4 | 37.6 | 390 | |
| | 1 | 25 | AL | 2 / 3R | 24.0 | 23.4 | 42.0 | 570 | |
| | 1 | 30 | AL | 2 / 3R | 24.0 | 23.4 | 42.0 | 570 | |
| | 1 | 37.5 | AL | 2 / 3R | 24.0 | 23.4 | 42.0 | 650 | |
| | 1 | 40 | AL | 2 / 3R | 24.0 | 23.4 | 42.0 | 650 | |
| | 1 | 45 | AL | 2 / 3R | 30.0 | 23.4 | 42.0 | 650 | |
| | 1 | 50 | AL | 2 / 3R | 30.0 | 34.0 | 62.9 | 925 | |
| | 1 | 75 | AL | 2 / 3R | 30.0 | 34.0 | 62.9 | 1200 | |
| | 1 | 100 | AL | 2 / 3R | 30.0 | 34.0 | 62.9 | 1275 | |
| | 1 | 150 | AL | 2 / 3R | 30.0 | 34.0 | 62.9 | 1600 | |
| 1 | 167 | AL | 2 / 3R | 30.0 | 34.0 | 62.9 | 1600 | | |
| DT-3 / DT-3E / KT-4 KT-9 / KT-13 / KT-20 KT-30 / KT-40 / KY-50 | 3 | 5 | AL | 2 / 3R | 23.0 | 16.5 | 33.0 | 168 | Interpolated |
| | 3 | 6 | AL | 2 / 3R | 23.0 | 16.5 | 33.0 | 168 | |
| | 3 | 7.5 | AL | 2 / 3R | 23.0 | 16.5 | 33.3 | 430 | |
| | 3 | 9 | AL | 2 / 3R | 23.0 | 16.5 | 33.3 | 430 | |
| | 3 | 10 | AL | 2 / 3R | 23.0 | 18.4 | 33.0 | 430 | |
| | 3 | 11 | AL | 2 / 3R | 23.0 | 18.4 | 33.0 | 430 | |
| | 3 | 14 | AL | 2 / 3R | 23.0 | 18.4 | 33.0 | 430 | |
| | 3 | 15 | AL | 2 / 3R | 29.0 | 22.0 | 42.3 | 430 | |
| | 3 | 20 | AL | 2 / 3R | 29.0 | 20.4 | 42.3 | 440 | |
| | 3 | 22.5 | AL | 2 / 3R | 23.0 | 32.8 | 40.5 | 440 | |
| | 3 | 25 | AL | 2 / 3R | 23.0 | 32.8 | 42.0 | 580 | |
| | 3 | 27 | AL | 2 / 3R | 23.0 | 32.8 | 42.0 | 590 | |
| | 3 | 30 | AL | 2 / 3R | 29.0 | 23.8 | 42.2 | 590 | |
| | 3 | 34 | AL | 2 / 3R | 24.2 | 23.8 | 42.0 | 605 | |
| | 3 | 37.5 | AL | 2 / 3R | 24.2 | 23.8 | 42.0 | 605 | |

General Notes:

¹ Construction of the DS / KS and DT / KT models are identical, variation is limited to electrical and thermal ratings. DS-3E / DS-3 and DT-3E / DT-3 construction is similar with the DS-3 and DT-3 construction except the enclosures are non ventilated.

² All enclosures are constructed of carbon steel. NEMA 3R enclosure is identical to NEMA 2 with the inclusion of a drip shield.

³ Subscripts indicate the test report in which the units were qualified:

y - 70282R12 / z - 70566R12

⁴ F_p calculated using $a_p = 1.0$, $R_p = 2.5$, and $I_p = 1.5$

| TABLE 1 Floor Mounted | EATON VENTILATED/NON VENTILATED DRY TYPE DISTRIBUTION TRANSFORMERS CERTIFIED PRODUCT LINE MATRIX | | | | | | |  WEGAI W.E. GUNDY & ASSOCIATES, INC. STRUCTURAL & EARTHQUAKE ENGINEERING | |
|----------------------------------|---|--------|------------|------------------|--------------------------|------------|------------|---|--------------|
| | ¹ Model Line Identification | Phases | kVA Rating | Winding Material | ² NEMA Rating | Width (in) | Depth (in) | Height (in) | Weight (lbs) |

Table 1: - Vented / Non-Vented Dry Type Transformers- Floor Mounted

⁴Seismic Certification Limits: $S_{DS} = 2.10$ at $z/h = 1 : F_p = 1.51g$ and $S_{DS} = 2.50$ at $z/h = 0 : F_p = 1.13g$

| | | | | | | | | | |
|--|----------|------------|-----------|----------|-------------|-------------|-------------|-------------|---------------------------|
| DT-3 / DT-3E / KT-4 KT-9 / KT-13 / KT-20 KT-30 / KT-40 / KY-50 | 3 | 40 | AL | 2 / 3R | 28.2 | 23.4 | 48.6 | 620 | Interpolated |
| | 3 | 45 | AL | 2 / 3R | 30.0 | 17.0 | 30.3 | 620 | |
| | 3 | 50 | AL | 2 / 3R | 30.6 | 34.0 | 48.6 | 1240 | |
| | 3 | 51 | AL | 2 / 3R | 30.6 | 34.0 | 62.9 | 1240 | |
| | 3 | 60 | AL | 2 / 3R | 30.6 | 34.0 | 62.9 | 1240 | |
| | 3 | 63 | AL | 2 / 3R | 30.6 | 34.0 | 62.9 | 1240 | |
| | 3 | 75 | AL | 2 / 3R | 30.6 | 34.0 | 62.9 | 1240 | |
| | 3 | 80 | AL | 2 / 3R | 30.0 | 34.0 | 62.9 | 1250 | |
| | 3 | 93 | AL | 2 / 3R | 30.0 | 34.0 | 62.9 | 1250 | |
| | 3 | 100 | AL | 2 / 3R | 30.0 | 34.0 | 62.9 | 1250 | |
| | 3 | 112.5 | AL | 2 / 3R | 36.7 | 32.5 | 62.2 | 1990 | |
| | 3 | 118 | AL | 2 / 3R | 36.7 | 32.5 | 62.2 | 1800 | |
| | 3 | 125 | AL | 2 / 3R | 36.7 | 32.5 | 62.2 | 1800 | |
| | 3 | 145 | AL | 2 / 3R | 36.7 | 32.5 | 62.2 | 1800 | |
| | 3 | 150 | AL | 2 / 3R | 36.7 | 32.5 | 62.2 | 1800 | |
| | 3 | 160 | AL | 2 / 3R | 44.5 | 36.4 | 71.5 | 1800 | |
| | 3 | 167 | AL | 2 / 3R | 44.5 | 36.4 | 71.5 | 1800 | |
| | 3 | 175 | AL | 2 / 3R | 44.5 | 36.4 | 71.5 | 2416 | |
| | 3 | 220 | AL | 2 / 3R | 44.5 | 36.4 | 71.5 | 2416 | |
| | 3 | 225 | AL | 2 / 3R | 44.5 | 36.4 | 71.5 | 2416 | |
| | 3 | 250 | AL | 2 / 3R | 44.5 | 36.4 | 71.5 | 2416 | |
| | 3 | 275 | AL | 2 / 3R | 44.5 | 36.4 | 71.5 | 2416 | |
| | 3 | 300 | AL | 2 / 3R | 44.5 | 36.4 | 71.5 | 2416 | |
| | 3 | 330 | AL | 2 / 3R | 44.5 | 36.4 | 71.5 | 2416 | |
| 3 | 350 | AL | 2 / 3R | 44.5 | 36.4 | 71.5 | 2416 | | |
| 3 | 400 | AL | 2 / 3R | 44.5 | 36.4 | 71.5 | 2416 | | |
| 3 | 440 | AL | 2 / 3R | 44.8 | 42.8 | 71.5 | 2416 | | |
| 3 | 500 | AL | 2 / 3R | 45.0 | 36.5 | 68.5 | 2416 | | |
| DT-3: V48D28T55EE | 3 | 500 | AL | 2 | 45.0 | 36.5 | 68.5 | 2416 | UUT_y-10 |

General Notes:

¹ Construction of the DS / KS and DT / KT models are identical, variation is limited to electrical and thermal ratings. DS-3E / DS-3 and DT-3E / DT-3 construction is similar with the DS-3 and DT-3 construction except the enclosures are non ventilated.

² All enclosures are constructed of carbon steel. NEMA 3R enclosure is identical to NEMA 2 with the inclusion of a drip shield.

³ Subscripts indicate the test report in which the units were qualified:

_y - 70282R12 / _z - 70566R12

⁴ F_p calculated using $a_p = 1.0$, $R_p = 2.5$, and $I_p = 1.5$

| TABLE 1 Floor Mounted | EATON VENTILATED/NON VENTILATED DRY TYPE DISTRIBUTION TRANSFORMERS CERTIFIED PRODUCT LINE MATRIX | | | | | | |  W.E. GUNDY & ASSOCIATES, INC. STRUCTURAL & EARTHQUAKE ENGINEERING | | |
|--|--|--------------|------------|------------------|--------------------------|-------------|-------------|---|---------------------------|------------------|
| | ¹ Model Line Identification | Phases | kVA Rating | Winding Material | ² NEMA Rating | Width (in) | Depth (in) | Height (in) | Weight (lbs) | UUT ³ |
| Table 1: - Vented / Non-Vented Dry Type Transformers- Floor Mounted | | | | | | | | | | |
| ⁴ Seismic Certification Limits: $S_{DS} = 2.10$ at $z/h = 1 : F_p = 1.51g$ and $S_{DS} = 2.50$ at $z/h = 0 : F_p = 1.13g$ | | | | | | | | | | |
| DS-3 / DS-3E / KS-4 KS-9 / KS-13 / KS-20 KS-30 / KS-40 / KS-50 | 1 | 5 | CU | 2 / 3R | 16.9 | 15.8 | 30.3 | 210 | Extrapolated | |
| | 1 | 7.5 | CU | 2 / 3R | 22.6 | 19.5 | 37.5 | 349 | | |
| | 1 | 9 | CU | 2 / 3R | 22.6 | 19.5 | 37.5 | 460 | | |
| | 1 | 10 | CU | 2 / 3R | 22.6 | 19.5 | 37.5 | 465 | | |
| | 1 | 15 | CU | 2 / 3R | 22.6 | 19.5 | 37.5 | 470 | | |
| KT-4: H48M28T45CUEELS42 | 2 | 45 | CU | 2 | 23.5 | 17.0 | 30.3 | 510 | UUT_y-39 | |
| DS-3 / DS-3E / KS-4 KS-9 / KS-13 / KS-20 KS-30 / KS-40 / KS-50 | 1 | 20 | CU | 2 / 3R | 24.0 | 23.4 | 42.0 | 610 | Interpolated | |
| | 1 | 22.5 | CU | 2 / 3R | 23.9 | 20.4 | 37.6 | 610 | | |
| | 1 | 25 | CU | 2 / 3R | 24.0 | 23.4 | 42.0 | 610 | | |
| | 1 | 30 | CU | 2 / 3R | 24.0 | 23.4 | 42.0 | 700 | | |
| | 1 | 37.5 | CU | 2 / 3R | 24.0 | 23.4 | 42.0 | 940 | | |
| | 1 | 40 | CU | 2 / 3R | 24.0 | 23.4 | 42.0 | 940 | | |
| | 1 | 45 | CU | 2 / 3R | 30.0 | 23.4 | 42.0 | 940 | | |
| | 1 | 50 | CU | 2 / 3R | 30.0 | 34.0 | 62.9 | 1730 | | |
| | 1 | 75 | CU | 2 / 3R | 30.0 | 34.0 | 62.9 | 1520 | | |
| | 1 | 100 | CU | 2 / 3R | 30.0 | 34.0 | 62.9 | 1850 | | |
| | 1 | 150 | CU | 2 / 3R | 30.0 | 34.0 | 62.9 | 1800 | | |
| 1 | 167 | CU | 2 / 3R | 30.0 | 34.0 | 62.9 | 1800 | | | |
| DT-3 / DT-3E / KT-4 KT-9 / KT-13 / KT-20 KT-30 / KT-40 / KY-50 | 3 | 5 | CU | 2 / 3R | 23.0 | 16.5 | 33.0 | 204 | Interpolated | |
| | 3 | 6 | CU | 2 / 3R | 23.0 | 16.5 | 33.0 | 204 | | |
| | 3 | 7.5 | CU | 2 / 3R | 23.0 | 16.5 | 33.3 | 640 | | |
| | 3 | 9 | CU | 2 / 3R | 23.0 | 16.5 | 33.3 | 640 | | |
| | 3 | 10 | CU | 2 / 3R | 23.0 | 18.4 | 33.0 | 640 | | |
| | 3 | 11 | CU | 2 / 3R | 23.0 | 18.4 | 33.0 | 640 | | |
| | 3 | 14 | CU | 2 / 3R | 23.0 | 18.4 | 33.0 | 640 | | |
| | 3 | 15 | CU | 2 / 3R | 29.0 | 22.0 | 42.3 | 640 | | |
| | 3 | 20 | CU | 2 / 3R | 29.0 | 20.4 | 42.3 | 650 | | |
| | 3 | 22.5 | CU | 2 / 3R | 23.0 | 32.8 | 40.5 | 650 | | |
| DT-3: V44M31T12CU | 3 | 112.5 | CU | 3R | 29.8 | 21.8 | 39.5 | 762 | UUT_z-25 | |
| DT-3 / DT-3E / KT-4 KT-9 / KT-13 / KT-20 KT-30 / KT-40 / KY-50 | 3 | 25 | CU | 2 / 3R | 23.0 | 32.8 | 42.0 | 850 | Interpolated | |
| | 3 | 27 | CU | 2 / 3R | 23.0 | 32.8 | 42.0 | 910 | | |
| | 3 | 30 | CU | 2 / 3R | 29.0 | 23.8 | 42.2 | 990 | | |
| | 3 | 34 | CU | 2 / 3R | 24.2 | 23.8 | 42.0 | 990 | | |
| General Notes: | | | | | | | | | | |
| ¹ Construction of the DS / KS and DT / KT models are identical, variation is limited to electrical and thermal ratings. DS-3E / DS-3 and DT-3E / DT-3 construction is similar with the DS-3 and DT-3 construction except the enclosures are non ventilated. | | | | | | | | | | |
| ² All enclosures are constructed of carbon steel. NEMA 3R enclosure is identical to NEMA 2 with the inclusion of a drip shield. | | | | | | | | | | |
| ³ Subscripts indicate the test report in which the units were qualified: y - 70282R12 / z - 70566R12 | | | | | | | | | | |
| ⁴ F_p calculated using $a_p = 1.0$, $R_p = 2.5$, and $I_p = 1.5$ | | | | | | | | | | |

| TABLE 1 Floor Mounted | EATON VENTILATED/NON VENTILATED DRY TYPE DISTRIBUTION TRANSFORMERS CERTIFIED PRODUCT LINE MATRIX | | | | | | |  WEGAI W. E. GUNDY & ASSOCIATES, INC. STRUCTURAL & EARTHQUAKE ENGINEERING | |
|----------------------------------|---|--------|------------|------------------|--------------------------|------------|------------|--|--------------|
| | ¹ Model Line Identification | Phases | kVA Rating | Winding Material | ² NEMA Rating | Width (in) | Depth (in) | Height (in) | Weight (lbs) |

Table 1: - Vented / Non-Vented Dry Type Transformers- Floor Mounted

⁴Seismic Certification Limits: $S_{DS} = 2.10$ at $z/h = 1 : F_p = 1.51g$ and $S_{DS} = 2.50$ at $z/h = 0 : F_p = 1.13g$

| | | | | | | | | | |
|--|----------|------------|-----------|----------|-------------|-------------|-------------|-------------|---------------------------|
| DT-3 / DT-3E / KT-4 KT-9 / KT-13 / KT-20 KT-30 / KT-40 / KY-50 | 3 | 37.5 | CU | 2 / 3R | 24.2 | 23.8 | 42.0 | 990 | Interpolated |
| | 3 | 40 | CU | 2 / 3R | 28.2 | 23.4 | 48.6 | 990 | |
| | 3 | 45 | CU | 2 / 3R | 30.0 | 17.0 | 30.3 | 1300 | |
| | 3 | 50 | CU | 2 / 3R | 30.6 | 34.0 | 48.6 | 1900 | |
| | 3 | 51 | CU | 2 / 3R | 30.6 | 34.0 | 62.9 | 1900 | |
| | 3 | 60 | CU | 2 / 3R | 30.6 | 34.0 | 62.9 | 2100 | |
| | 3 | 63 | CU | 2 / 3R | 30.6 | 34.0 | 62.9 | 2100 | |
| | 3 | 75 | CU | 2 / 3R | 30.6 | 34.0 | 62.9 | 2100 | |
| | 3 | 80 | CU | 2 / 3R | 30.0 | 34.0 | 62.9 | 2400 | |
| | 3 | 93 | CU | 2 / 3R | 30.0 | 34.0 | 62.9 | 2400 | |
| | 3 | 100 | CU | 2 / 3R | 30.0 | 34.0 | 62.9 | 2400 | |
| | 3 | 112.5 | CU | 2 / 3R | 36.7 | 32.5 | 62.2 | 2400 | |
| | 3 | 118 | CU | 2 / 3R | 36.7 | 32.5 | 62.2 | 4200 | |
| | 3 | 125 | CU | 2 / 3R | 36.7 | 32.5 | 62.2 | 4200 | |
| | 3 | 145 | CU | 2 / 3R | 36.7 | 32.5 | 62.2 | 4200 | |
| | 3 | 150 | CU | 2 / 3R | 36.7 | 32.5 | 62.2 | 4200 | |
| | 3 | 160 | CU | 2 / 3R | 44.5 | 36.4 | 71.5 | 4200 | |
| | 3 | 167 | CU | 2 / 3R | 44.5 | 36.4 | 71.5 | 4200 | |
| | 3 | 175 | CU | 2 / 3R | 44.5 | 36.4 | 71.5 | 4200 | |
| | 3 | 220 | CU | 2 / 3R | 44.5 | 36.4 | 71.5 | 4200 | |
| | 3 | 225 | CU | 2 / 3R | 44.5 | 36.4 | 71.5 | 4200 | |
| | 3 | 250 | CU | 2 / 3R | 44.5 | 36.4 | 71.5 | 4500 | |
| | 3 | 275 | CU | 2 / 3R | 44.5 | 36.4 | 71.5 | 4500 | |
| | 3 | 300 | CU | 2 / 3R | 44.5 | 36.4 | 71.5 | 4500 | |
| 3 | 330 | CU | 2 / 3R | 44.5 | 36.4 | 71.5 | 4683 | | |
| 3 | 350 | CU | 2 / 3R | 44.5 | 36.4 | 71.5 | 4683 | | |
| 3 | 400 | CU | 2 / 3R | 44.5 | 36.4 | 71.5 | 4683 | | |
| 3 | 440 | CU | 2 / 3R | 44.8 | 42.8 | 71.5 | 4683 | | |
| 3 | 500 | CU | 2 / 3R | 45.0 | 36.5 | 68.5 | 4683 | | |
| KT-4: H48M28F55CU | 3 | 500 | CU | 2 | 44.8 | 42.8 | 71.5 | 4683 | UUT_z-11 |

General Notes:

¹ Construction of the DS / KS and DT / KT models are identical, variation is limited to electrical and thermal ratings. DS-3E / DS-3 and DT-3E / DT-3 construction is similar with the DS-3 and DT-3 construction except the enclosures are non ventilated.

² All enclosures are constructed of carbon steel. NEMA 3R enclosure is identical to NEMA 2 with the inclusion of a drip shield.

³ Subscripts indicate the test report in which the units were qualified:

y - 70282R12 / z - 70566R12

⁴ F_p calculated using $a_p = 1.0$, $R_p = 2.5$, and $I_p = 1.5$

| | | |
|---------------------------------|---|---|
| TABLE 2 Wall Mounted | EATON VENTILATED/NON VENTILATED DRY TYPE DISTRIBUTION TRANSFORMERS CERTIFIED PRODUCT LINE MATRIX |  WEGAI <small>W.E. GUNDY & ASSOCIATES, INC. STRUCTURAL & EARTHQUAKE ENGINEERING</small> |
|---------------------------------|---|---|

| ¹ Model Line Identification | Phases | kVA Rating | Winding Material | ² NEMA Rating | Width (in) | Depth (in) | Height (in) | Weight (lbs) | UUT ³ |
|--|--------|------------|------------------|--------------------------|------------|------------|-------------|--------------|------------------|
|--|--------|------------|------------------|--------------------------|------------|------------|-------------|--------------|------------------|

Table 2: - Vented / Non-Vented Dry Type Transformers- Wall Mounted

⁴Seismic Certification Limits: $S_{DS} = 2.50$ at $z/h = 1$: $F_p = 1.80g$

| | | | | | | | | | |
|--|----------|-----------|-----------|----------|-------------|-------------|-------------|------------|--------------------------|
| DT-3: V44M28T15CU | 3 | 15 | CU | 2 | 20.8 | 27.0 | 41.3 | 210 | UUT_y-8 |
| DS-3 / DS-3E / KS-4 KS-9 / KS-13 / KS-20 KS-30 / KS-40 / KS-50 | 3 | 5 | AL / CU | 2 / 3R | 16.9 | 15.8 | 30.3 | 210 | Interpolated |
| | 1 | 7.5 | AL / CU | 2 / 3R | 22.6 | 19.5 | 37.5 | 349 | |
| | 1 | 9 | AL / CU | 2 / 3R | 22.6 | 19.5 | 37.5 | 460 | |
| | 1 | 10 | AL / CU | 2 / 3R | 22.6 | 19.5 | 37.5 | 465 | |
| | 1 | 15 | AL / CU | 2 / 3R | 22.6 | 19.5 | 37.5 | 400 | |
| | 1 | 20 | AL / CU | 2 / 3R | 22.6 | 19.5 | 37.5 | 400 | |
| | 1 | 22.5 | AL / CU | 2 / 3R | 22.6 | 19.5 | 37.5 | 400 | |
| | 1 | 25 | AL / CU | 2 / 3R | 22.6 | 19.5 | 37.5 | 400 | |
| | 1 | 30 | AL / CU | 2 / 3R | 22.6 | 19.5 | 37.5 | 400 | |
| 1 | 37.5 | AL / CU | 2 / 3R | 22.6 | 19.5 | 37.5 | 425 | | |
| DT-3 / DT-3E / KT-4 KT-9 / KT-13 / KT-20 KT-30 / KT-40 / KY-50 | 3 | 5 | AL / CU | 2 / 3R | 23.0 | 16.5 | 33.0 | 204 | Interpolated |
| | 3 | 6 | AL / CU | 2 / 3R | 23.0 | 16.5 | 33.3 | 640 | |
| | 3 | 7.5 | AL / CU | 2 / 3R | 23.0 | 16.5 | 33.3 | 640 | |
| | 3 | 9 | AL / CU | 2 / 3R | 23.0 | 16.5 | 33.3 | 640 | |
| | 3 | 10 | AL / CU | 2 / 3R | 23.0 | 18.4 | 33.0 | 640 | |
| | 3 | 11 | AL / CU | 2 / 3R | 23.0 | 18.4 | 33.0 | 640 | |
| | 3 | 14 | AL / CU | 2 / 3R | 23.0 | 18.4 | 33.0 | 640 | |
| | 3 | 20 | AL / CU | 2 / 3R | 29.0 | 22.0 | 42.3 | 640 | |
| | 3 | 22.5 | AL / CU | 2 / 3R | 29.0 | 22.0 | 40.5 | 650 | |
| | 3 | 25 | AL / CU | 2 / 3R | 23.0 | 20.4 | 42.0 | 714 | |
| | 3 | 27 | AL / CU | 2 / 3R | 23.0 | 32.8 | 42.0 | 714 | |
| | 3 | 30 | AL / CU | 2 / 3R | 23.0 | 32.8 | 42.2 | 714 | |
| | 3 | 34 | AL / CU | 2 / 3R | 24.2 | 23.8 | 42.0 | 714 | |
| | 3 | 35 | AL / CU | 2 / 3R | 24.2 | 23.8 | 42.0 | 714 | |
| | 3 | 37.5 | AL / CU | 2 / 3R | 24.2 | 23.8 | 42.0 | 714 | |
| | 3 | 40 | AL / CU | 2 / 3R | 28.2 | 23.8 | 48.6 | 714 | |
| | 3 | 45 | AL / CU | 2 / 3R | 28.2 | 23.4 | 48.6 | 714 | |
| 3 | 50 | AL / CU | 2 / 3R | 30.0 | 23.4 | 62.9 | 714 | | |
| 3 | 51 | AL / CU | 2 / 3R | 30.6 | 34.0 | 62.9 | 714 | | |

General Notes:

¹ Construction of the DS / KS and DT / KT models are identical, variation is limited to electrical and thermal ratings. DS-3E / DS-3 and DT-3E / DT-3 construction is similar with the DS-3 and DT-3 construction except the enclosures are non ventilated.

² All enclosures are constructed of carbon steel. NEMA 3R enclosure is identical to NEMA 2 with the inclusion of a drip shield.

³ Subscripts indicate the test report in which the units were qualified:

y- 70282R12 / z- 70566R12

⁴ F_p calculated using $a_p = 1.0$, $R_p = 2.5$, and $I_p = 1.5$

| | | |
|---------------------------------|---|---|
| TABLE 2 Wall Mounted | EATON VENTILATED/NON VENTILATED DRY TYPE DISTRIBUTION TRANSFORMERS CERTIFIED PRODUCT LINE MATRIX |  WEGAI <small>W.E. GUNDY & ASSOCIATES, INC. STRUCTURAL & EARTHQUAKE ENGINEERING</small> |
|---------------------------------|---|---|

| ¹ Model Line Identification | Phases | kVA Rating | Winding Material | ² NEMA Rating | Width (in) | Depth (in) | Height (in) | Weight (lbs) | UUT ³ |
|--|--------|------------|------------------|--------------------------|------------|------------|-------------|--------------|------------------|
|--|--------|------------|------------------|--------------------------|------------|------------|-------------|--------------|------------------|

Table 2: - Vented / Non-Vented Dry Type Transformers- Wall Mounted

⁴Seismic Certification Limits: $S_{DS} = 2.50$ at $z/h = 1$: $F_p = 1.80g$

| | | | | | | | | | |
|------------------------------|----------|--------------|-----------|----------|-------------|-------------|-------------|------------|---------------------------|
| DT-3 / DT-3E / KT-4 | 3 | 60 | AL / CU | 2 / 3R | 30.6 | 34.0 | 62.9 | 714 | Interpolated |
| KT-9 / KT-13 / KT-20 | 3 | 63 | AL / CU | 2 / 3R | 30.6 | 34.0 | 62.9 | 714 | |
| KT-30 / KT-40 / KY-50 | 3 | 75 | AL / CU | 2 / 3R | 29.5 | 26.8 | 55.0 | 714 | |
| KT-4: H48M28B75EELS47 | 3 | 75 | AL | 2 | 29.5 | 26.8 | 55.0 | 714 | UUT_y-40 |
| DT-3 / DT-3E / KT-4 | 3 | 75 | CU | 2 / 3R | 29.5 | 26.8 | 55.0 | 810 | Interpolated |
| KT-9 / KT-13 / KT-20 | 3 | 93 | CU | 2 / 3R | 29.5 | 26.8 | 55.0 | 810 | |
| KT-30 / KT-40 / KY-50 | 3 | 100 | CU | 2 / 3R | 30.0 | 34.0 | 62.9 | 810 | |
| | 3 | 112.5 | CU | 2 / 3R | 30.0 | 34.0 | 62.9 | 810 | |
| DT-3: V44M31T12CU | 3 | 112.5 | CU | 2 | 29.5 | 28.0 | 55.0 | 810 | UUT_y-9 |

General Notes:

¹ Construction of the DS / KS and DT / KT models are identical, variation is limited to electrical and thermal ratings. DS-3E / DS-3 and DT-3E / DT-3 construction is similar with the DS-3 and DT-3 construction except the enclosures are non ventilated.

² All enclosures are constructed of carbon steel. NEMA 3R enclosure is identical to NEMA 2 with the inclusion of a drip shield.

³ Subscripts indicate the test report in which the units were qualified:

_y- 70282R12 / _z- 70566R12

⁴ F_p calculated using $a_p = 1.0$, $R_p = 2.5$, and $I_p = 1.5$; Mohammad Karim

DATE: 03/11/2026



| TABLE 3 Floor Mounted | | EATON ENCAPSULATED TRANSFORMERS CERTIFIED PRODUCT LINE MATRIX | | | | | |  WEGAI <small>W.E. GUNDY & ASSOCIATES, INC. STRUCTURAL & EARTHQUAKE ENGINEERING</small> | |
|---|---------------|--|-----------------------------|------------------------------------|-----------------------|-----------------------|------------------------|---|---------------------------|
| Model Line Identification¹ | Phases | kVA Rating | Winding Material | ²NEMA Rating | Width (in) | Depth (in) | Height (in) | Weight (lbs) | UUT³ |
| Table 3: - Encapsulated Transformers- Floor Mounted | | | | | | | | | |
| ⁴Seismic Certification Limits: S_{DS} = 2.50 at z/h = 1 : F_p = 1.80g | | | | | | | | | |
| EP - SxxXxxX03x | 1 | 3 | AL / CU | 3R / 4 / 12 | 16.9 | 10.0 | 12.8 | 230 | Extrapolated |
| EP - SxxXxxX04x | 1 | 4 | AL / CU | 3R / 4 / 12 | 19.6 | 10.5 | 15.8 | 240 | |
| EP - SxxXxxX05x | 1 | 5 | AL / CU | 3R / 4 / 12 | 29.7 | 10.0 | 12.1 | 240 | |
| EP - SxxXxxX06x | 1 | 6 | AL / CU | 3R / 4 / 12 | 20.0 | 10.5 | 15.8 | 375 | |
| EP - SxxXxxX07x | 1 | 7.5 | AL / CU | 3R / 4 / 12 | 20.0 | 10.5 | 15.8 | 380 | |
| EP - SxxXxxX09x | 1 | 9 | AL / CU | 3R / 4 / 12 | 20.0 | 10.5 | 15.8 | 500 | |
| EP - SxxXxxX10x | 1 | 10 | AL / CU | 3R / 4 / 12 | 20.0 | 14.1 | 15.8 | 350 | |
| EP - SxxXxxX15x | 1 | 15 | AL / CU | 3R / 4 / 12 | 24.8 | 14.7 | 26.8 | 615 | |
| EP - SxxXxxX21x | 1 | 22.5 | AL / CU | 3R / 4 / 12 | 24.8 | 14.7 | 26.8 | 698 | |
| EP - SxxXxxX25x | 1 | 25 | AL / CU | 3R / 4 / 12 | 24.8 | 14.7 | 26.8 | 698 | |
| EP - SxxXxxX37x | 1 | 37.5 | AL / CU | 3R / 4 / 12 | 30.3 | 15.7 | 32.1 | 698 | |
| EPT - YxxXxxX03x | 3 | 3 | AL / CU | 3R / 4 / 12 | 16.9 | 10.0 | 12.8 | 230 | |
| EPT - YxxXxxX05x | 3 | 5 | AL / CU | 3R / 4 / 12 | 19.6 | 10.5 | 15.8 | 240 | |
| EPT - YxxXxxX06x | 3 | 6 | AL / CU | 3R / 4 / 12 | 29.7 | 10.0 | 12.1 | 375 | |
| EPT - YxxXxxX07x | 3 | 7.5 | AL / CU | 3R / 4 / 12 | 29.7 | 10.0 | 12.1 | 400 | |
| EPT - YxxXxxX09x | 3 | 9 | AL / CU | 3R / 4 / 12 | 29.7 | 10.5 | 15.8 | 425 | |
| EPT - YxxXxxX10x | 3 | 10 | AL / CU | 3R / 4 / 12 | 29.7 | 10.5 | 15.8 | 450 | |
| EPT: Y38M28T30N | 3 | 30 | AL | 3R | 25.3 | 12.8 | 26.8 | 528 | UUT_y-44 |
| EPT - YxxXxxX15x | 3 | 15 | AL / CU | 3R / 4 / 12 | 29.7 | 14.1 | 25.5 | 615 | Interpolated |
| EPT - YxxXxxX21x | 3 | 22.5 | AL / CU | 3R / 4 / 12 | 29.7 | 14.1 | 25.5 | 750 | |
| EPT - YxxXxxX25x | 3 | 25 | AL / CU | 3R / 4 / 12 | 24.8 | 14.7 | 28.2 | 800 | |
| EPT - YxxXxxX30x | 3 | 30 | AL / CU | 3R / 4 / 12 | 24.8 | 14.7 | 28.2 | 850 | |
| EPT - YxxXxxX45x | 3 | 45 | AL / CU | 3R / 4 / 12 | 30.3 | 15.7 | 32.1 | 1312 | |
| EPT - YxxXxxX50x | 3 | 50 | AL / CU | 3R / 4 / 12 | 30.5 | 15.9 | 32.4 | 1312 | |
| EPT - YxxXxxX75x | 3 | 75 | AL / CU | 3R / 4 / 12 | 30.5 | 15.9 | 32.4 | 1312 | |
| EPT: Y39M63T75X | 3 | 75 | AL | 3R | 30.3 | 15.8 | 32.3 | 1312 | UUT_y-14 |
| EPT - YxxXxxX75x | 3 | 75 | CU | 3R / 4 / 12 | 30.5 | 15.9 | 32.4 | 1515 | Interpolated |
| EPT: Y39M28T75Y75034 | 3 | 75 | CU | 3R | 30.5 | 15.9 | 32.4 | 1515 | UUT_z-12 |
| General Notes: | | | | | | | | | |
| ¹ See Table 5 for Eaton Catalog Identification Reference | | | | | | | | | |
| ² All enclosures are constructed of carbon steel. NEMA 2 / 12 enclosures are identical to NEMA 3R with the inclusion of a gaskets. | | | | | | | | | |
| ³ Subscripts indicate the test report in which the units were qualified: y - 70282R12 / z - 70566R12 | | | | | | | | | |
| ⁴ F _p calculated using a _p = 1.0, R _p = 2.5, and I _p = 1.5 | | | | | | | | | |

| TABLE 4 Wall Mounted | EATON ENCAPSULATED TRANSFORMERS CERTIFIED PRODUCT LINE MATRIX | | | | | | |  W.E. GUNDY & ASSOCIATES, INC. STRUCTURAL & EARTHQUAKE ENGINEERING | | |
|---|--|-------------|---------------|---------------------|-----------------------------|---------------|---------------|---|---------------------------|------------------|
| | Model Line Identification ¹ | Phases | kVA Rating | Winding Material | ² NEMA Rating | Width (in) | Depth (in) | Height (in) | Weight (lbs) | UUT ³ |
| Table 4: - Encapsulated Transformers- Wall Mounted | | | | | | | | | | |
| ⁴ Seismic Certification Limits: $S_{DS} = 2.30$ at $z/h = 1$: $F_p = 1.66g$ and $S_{DS} = 2.50$ at $z/h = 0$: $F_p = 1.13g$ | | | | | | | | | | |
| EP: S10N04A81N | 1 | 0.05 | CU | 3R | 4.3 | 4.3 | 9.3 | 8 | UUT_y-11 | |
| EP - SxxXxxX81x | 1 | 0.05 | CU | 3R / 4 / 12 | 4.3 | 4.3 | 9.3 | 8 | Interpolated | |
| EP - SxxXxxX85x | 1 | 0.075 | CU | 3R / 4 / 12 | 4.6 | 4.1 | 6.4 | 9 | | |
| EP - SxxXxxX82x | 1 | 0.1 | CU | 3R / 4 / 12 | 4.6 | 4.1 | 6.4 | 10 | | |
| EP - SxxXxxX83x | 1 | 0.15 | CU | 3R / 4 / 12 | 4.6 | 4.1 | 6.4 | 15 | | |
| EP - SxxXxxX26x | 1 | 0.25 | CU | 3R / 4 / 12 | 4.6 | 5.2 | 8.6 | 20 | | |
| EP - SxxXxxX51x | 1 | 0.5 | CU | 3R / 4 / 12 | 5.7 | 6.0 | 8.6 | 35 | | |
| EP - SxxXxxX76x | 1 | 0.75 | CU | 3R / 4 / 12 | 5.7 | 6.0 | 10.8 | 50 | | |
| EP - SxxXxxX01x | 1 | 1 | CU | 3R / 4 / 12 | 6.1 | 6.6 | 10.8 | 55 | | |
| EP - SxxXxxX16x | 1 | 1.5 | CU | 3R / 4 / 12 | 7.7 | 8.0 | 11.1 | 75 | | |
| EP - SxxXxxX02x | 1 | 2 | CU | 3R / 4 / 12 | 7.7 | 8.0 | 11.1 | 80 | | |
| EP - SxxXxxX03x | 1 | 3 | AL / CU | 3R / 4 / 12 | 16.9 | 10.0 | 12.8 | 420 | | |
| EP - SxxXxxX04x | 1 | 4 | AL / CU | 3R / 4 / 12 | 19.6 | 10.5 | 15.8 | 440 | | |
| EP - SxxXxxX05x | 1 | 5 | AL / CU | 3R / 4 / 12 | 29.7 | 10.0 | 12.1 | 440 | | |
| EP - SxxXxxX06x | 1 | 6 | AL / CU | 3R / 4 / 12 | 20.0 | 10.5 | 15.8 | 480 | | |
| EP - SxxXxxX07x | 1 | 7.5 | AL / CU | 3R / 4 / 12 | 20.0 | 10.5 | 15.8 | 570 | | |
| EP - SxxXxxX09x | 1 | 9 | AL / CU | 3R / 4 / 12 | 20.0 | 10.5 | 15.8 | 580 | | |
| EP - SxxXxxX10x | 1 | 10 | AL / CU | 3R / 4 / 12 | 20.0 | 14.1 | 15.8 | 430 | | |
| EP - SxxXxxX15x | 1 | 15 | AL / CU | 3R / 4 / 12 | 24.8 | 14.7 | 26.8 | 615 | | |
| EP - SxxXxxX21x | 1 | 22.5 | AL / CU | 3R / 4 / 12 | 24.8 | 14.7 | 26.8 | 698 | | |
| EP - SxxXxxX25x | 1 | 25 | AL / CU | 3R / 4 / 12 | 24.8 | 14.7 | 26.8 | 698 | | |
| EP - SxxXxxX37x | 1 | 37.5 | AL / CU | 3R / 4 / 12 | 30.3 | 15.7 | 32.1 | 698 | | |
| EPT: Y38D37T15CU | 3 | 15 | CU | 3R | 20.3 | 10.6 | 17.5 | 300 | UUT_z-13 | |
| EPT - YxxXxxX03x | 3 | 3 | AL / CU | 3R / 4 / 12 | 16.9 | 10.0 | 12.8 | 420 | Interpolated | |
| EPT - YxxXxxX05x | 3 | 5 | AL / CU | 3R / 4 / 12 | 19.6 | 10.5 | 15.8 | 440 | | |
| EPT - YxxXxxX06x | 3 | 6 | AL / CU | 3R / 4 / 12 | 29.7 | 10.0 | 12.1 | 480 | | |
| EPT - YxxXxxX09x | 3 | 9 | AL / CU | 3R / 4 / 12 | 29.7 | 10.5 | 15.8 | 580 | | |
| EPT - YxxXxxX15x | 3 | 15 | AL / CU | 3R / 4 / 12 | 28.3 | 15.0 | 26.8 | 650 | | |
| EPT - YxxXxxX30x | 3 | 30 | AL / CU | 3R / 4 / 12 | 28.3 | 15.0 | 26.8 | 698 | | |
| EPT - YxxXxxX45x | 3 | 45 | AL / CU | 3R / 4 / 12 | 28.3 | 15.0 | 26.8 | 698 | | |
| EPT: Y45001 | 3 | 45 | AL | 3R | 28.3 | 15.0 | 26.8 | 698 | UUT_z-15 | |
| EPT - YxxXxxX45x | 3 | 45 | CU | 3R / 4 / 12 | 28.3 | 15.0 | 26.8 | 818 | Interpolated | |
| EPT: Y48M28T45CU | 3 | 45 | CU | 3R | 28.3 | 14.8 | 26.8 | 818 | UUT_y-12 | |
| General Notes: | | | | | | | | | | |
| ¹ See Table 5 for Eaton Catalog Identification Reference | | | | | | | | | | |
| ² All enclosures are constructed of carbon steel. NEMA 2 / 12 enclosures are identical to NEMA 3R with the inclusion of a gaskets. | | | | | | | | | | |
| ³ Subscripts indicate the test report in which the units were qualified: y - 70282R12 / z - 70566R12 | | | | | | | | | | |
| ⁴ F_p calculated using $a_p = 1.0$, $R_p = 2.5$, and $I_p = 1.5$ | | | | | | | | | | |

| TABLE 6 | EATON VENTILATED/NON VENTILATED DRY TYPE DISTRIBUTION TRANSFORMERS CERTIFIED SUBCOMPONENTS | |  | |
|--|--|-------------------------------------|---|---------------------------|
| | Identification | Manufacturer | Description | Weight (lbs) |
| Core and Coil Assemblies - Floor Mounted Configurations | | | | |
| 912B-A | Eaton | 3-Phase 5kVA Aluminum CNC | 70 | UUT_y-7 |
| 842A | Eaton | Single-Phase 15 kVA Aluminum CNC | 140 | interpolated |
| 939-A | Eaton | 3-Phase 15 kVA Aluminum CNC | 144 | interpolated |
| 939-C | Eaton | 3-Phase 15 kVA Copper CNC | 185 | interpolated |
| 842A | Eaton | Single-Phase 25 kVA Aluminum CNC | 210 | interpolated |
| 842C | Eaton | Single-Phase 15 kVA Copper CNC | 216 | interpolated |
| 940-A | Eaton | 3-Phase 30 kVA Aluminum CNC | 262 | interpolated |
| 843A | Eaton | Single-Phase 37.5 kVA Aluminum CNC | 270 | interpolated |
| 940-C | Eaton | 3-Phase 30 kVA Copper CNC | 290 | interpolated |
| 842C | Eaton | Single-Phase 25 kVA Copper CNC | 295 | interpolated |
| 843A | Eaton | Single-Phase 50 kVA Aluminum CNC | 330 | interpolated |
| 940-A | Eaton | 3-Phase 45 kVA Aluminum CNC | 331 | interpolated |
| 940-C | Eaton | 3-Phase 45 kVA Copper CNC | 403 | interpolated |
| 912B-C | Eaton | 3-Phase 45 kVA Copper CNC | 423 | UUT_y-39 |
| 843C | Eaton | Single-Phase 37.5 kVA Copper CNC | 440 | interpolated |
| 843C | Eaton | Single-Phase 50 kVA Copper CNC | 450 | interpolated |
| 844A | Eaton | Single-Phase 75 kVA Aluminum CNC | 490 | interpolated |
| 844A | Eaton | Single-Phase 100 kVA Aluminum CNC | 580 | interpolated |
| 942-A | Eaton | 3-Phase 75 kVA Aluminum CNC | 582 | interpolated |
| 942-C | Eaton | 3-Phase 75 kVA Copper CNC | 604 | interpolated |
| 915D-C | Eaton | 3-Phase 112.5 kVA Copper CNC | 628 | UUT_z-25 |
| 943-A | Eaton | 3-Phase 112.5 kVA Aluminum CNC | 762 | interpolated |
| 844C | Eaton | Single-Phase 75 kVA Copper CNC | 890 | interpolated |
| 943-C | Eaton | 3-Phase 112.5 kVA Copper CNC | 900 | interpolated |
| 844C | Eaton | Single-Phase 100 kVA Copper CNC | 950 | interpolated |
| 814A | Eaton | Single-Phase 167 kVA Aluminum CNC | 1000 | interpolated |
| 943-A | Eaton | 3-Phase 150 kVA Aluminum CNC | 1013 | interpolated |
| 943-C | Eaton | 3-Phase 150 kVA Copper CNC | 1085 | interpolated |
| 944-A | Eaton | 3-Phase 225 kVA Aluminum CNC | 1454 | interpolated |
| 944-C | Eaton | 3-Phase 225 kVA Copper CNC | 1626 | interpolated |
| 814C | Eaton | Single-Phase 167 kVA Copper CNC | 1665 | interpolated |
| 924-A | Eaton | 3-Phase 500 kVA Aluminum CNC | 1753 | UUT_y-10 |
| 945-C | Eaton | 3-Phase 300 kVA Copper CNC | 2170 | interpolated |
| 949-C | Eaton | 3-Phase 500 kVA Copper CNC | 3800 | UUT_z-11 |

| | | |
|----------------|---|---|
| TABLE 6 | EATON VENTILATED/NON VENTILATED DRY TYPE DISTRIBUTION TRANSFORMERS CERTIFIED SUBCOMPONENTS |  WEGAI <small>W.E. GUNDY & ASSOCIATES, INC. STRUCTURAL & EARTHQUAKE ENGINEERING</small> |
|----------------|---|---|

| Identification | Manufacturer | Description | Weight (lbs) | Representative UUT ¹ |
|----------------|--------------|-------------|--------------|---------------------------------|
|----------------|--------------|-------------|--------------|---------------------------------|

Core and Coil Assemblies - Wall Mounted Configurations

| | | | | |
|---------------|--------------|-------------------------------------|------------|---------------------------|
| 912B-C | Eaton | 3-Phase 15 kVA Copper CNC | 123 | UUT_y-8 |
| 842A | Eaton | Single-Phase 15 kVA Aluminum CNC | 140 | interpolated |
| 939-A | Eaton | 3-Phase 15 kVA Aluminum CNC | 144 | interpolated |
| 939-C | Eaton | 3-Phase 15 kVA Copper CNC | 185 | interpolated |
| 842A | Eaton | Single-Phase 25 kVA Aluminum CNC | 210 | interpolated |
| 842C | Eaton | Single-Phase 15 kVA Copper CNC | 216 | interpolated |
| 940-A | Eaton | 3-Phase 30 kVA Aluminum CNC | 262 | interpolated |
| 843A | Eaton | Single-Phase 37.5 kVA Aluminum CNC | 270 | interpolated |
| 940-C | Eaton | 3-Phase 30 kVA Copper CNC | 290 | interpolated |
| 842C | Eaton | Single-Phase 25 kVA Copper CNC | 295 | interpolated |
| 843A | Eaton | Single-Phase 50 kVA Aluminum CNC | 330 | interpolated |
| 940-A | Eaton | 3-Phase 45 kVA Aluminum CNC | 331 | interpolated |
| 940-C | Eaton | 3-Phase 45 kVA Copper CNC | 403 | interpolated |
| 843C | Eaton | Single-Phase 37.5 kVA Copper CNC | 440 | interpolated |
| 843C | Eaton | Single-Phase 50 kVA Copper CNC | 450 | interpolated |
| 844A | Eaton | Single-Phase 75 kVA Aluminum CNC | 490 | interpolated |
| 915D-A | Eaton | 3-Phase 75 kVA Aluminum CNC | 580 | UUT_y-40 |
| 942-C | Eaton | 3-Phase 75 kVA Copper CNC | 604 | interpolated |
| 915D-C | Eaton | 3-Phase 112.5 kVA Copper CNC | 628 | UUT_y-9 |



**EATON LV TRANSFORMERS CERTIFIED COMPONENTS
UNIT UNDER TEST INDEX**



| UUT | Identification | kVA Rating | Test Date | Report # | Lab | Tested S _{DS} | |
|-----|----------------|------------|-----------|----------|-----|------------------------|-----------|
| | | | | | | z / h = 1 | z / h = 0 |

Table 1: Vented / Non-Vented Dry Type Transformers- Floor Mounted

| | | | | | | | |
|----------------------|------------------------|-------|------------------------|----------|----------|------|------|
| UUT _y -7 | DT-3: MD05D92BES | 5 | June 18-22,2012 | 70282R12 | Wyle, AL | 2.50 | 2.50 |
| UUT _y -10 | DT-3: V48D28T55EE | 500 | June 18-22,2012 | 70282R12 | Wyle, AL | 2.10 | 2.50 |
| UUT _y -39 | KT-4: H48M28T45CUEELS4 | 45 | June 18-22,2012 | 70282R12 | Wyle, AL | 2.50 | 2.50 |
| UUT _z -25 | DT-3: V44M31T12CU | 112.5 | Oct. 28 - Nov. 2, 2012 | 70566R12 | Wyle, AL | 2.10 | 2.50 |
| UUT _z -11 | KT-4: H48M28F55CU | 500 | Nov-12 | 70566R12 | Wyle, AL | 2.10 | 2.50 |

Table 2: Vented / Non-Vented Dry Type Transformers- Wall Mounted

| | | | | | | | |
|----------------------|-----------------------|-------|-----------------|----------|----------|------|------|
| UUT _y -8 | DT-3: V44M28T15CU | 15 | June 18-22,2012 | 70282R12 | Wyle, AL | 2.50 | 2.50 |
| UUT _y -40 | KT-4: H48M28B75EELS47 | 75 | June 18-22,2012 | 70282R12 | Wyle, AL | 2.50 | 2.50 |
| UUT _y -9 | DT-3: V44M31T12CU | 112.5 | June 18-22,2012 | 70282R12 | Wyle, AL | 2.50 | 2.50 |

Table 3: Encapsulated Transformers- Floor Mounted

| | | | | | | | |
|----------------------|----------------------|----|------------------------|----------|----------|------|------|
| UUT _y -44 | EPT: Y38M28T30N | 30 | June 18-22,2012 | 70282R12 | Wyle, AL | 2.50 | 2.50 |
| UUT _y -14 | EPT: Y39M63T75X | 75 | June 18-22,2012 | 70282R12 | Wyle, AL | 2.50 | 2.50 |
| UUT _z -12 | EPT: Y39M28T75Y75034 | 75 | Oct. 28 - Nov. 2, 2012 | 70566R12 | Wyle, AL | 2.50 | 2.50 |

Table 4: Encapsulated Transformers- Wall Mounted

| | | | | | | | |
|----------------------|------------------|------|------------------------|----------|----------|------|------|
| UUT _y -11 | EP: S10N04A81N | 0.05 | June 18-22,2012 | 70282R12 | Wyle, AL | 2.50 | 2.50 |
| UUT _z -13 | EPT: Y38D37T15CU | 15 | Oct. 28 - Nov. 2, 2012 | 70566R12 | Wyle, AL | 2.50 | 2.50 |
| UUT _z -15 | EPT: Y45001 | 45 | Oct. 28 - Nov. 2, 2012 | 70566R12 | Wyle, AL | 2.30 | 2.50 |
| UUT _y -12 | EPT: Y48M28T45CU | 45 | June 18-22,2012 | 70282R12 | Wyle, AL | 2.50 | 2.50 |

UUT_{y-7}

**UNIT UNDER TEST (UUT)
SUMMARY SHEET**



Mounting Details: Rigid floor mounted with (4) 1/2" grade 5 bolts.



| | |
|---|---|
| Manufacturer: Eaton | Test Location: Wyle Lab, Huntsville AL |
| Product Line: Ventilated Dry Type Transformers | Test Date: June 18-22, 2012 |
| Component: DT-3: MD05D92BES | Report Number: 70282R12 |

UUT Function: Voltage Transformation

UUT Description: 5kVA, DT-3 3-Phase Transformer, NEMA 2 Enclosure, and Eaton Frame 912B-A Aluminum CNC.

UUT PROPERTIES

| Weight (lb) | Dimensions (inches) | | | Natural Frequency (Hz) | | |
|-------------|---------------------|-------|--------|------------------------|------|------|
| | Width | Depth | Height | FB | SS | V |
| 156 | 20.3 | 14.5 | 25.3 | 18.0 | 20.0 | > 33 |

SEISMIC TEST PARAMETERS

| Building Code / Test Criteria | S _{DS} (g) | z / h | I _p | A _{AFLX-H} (g) | A _{ARIG-H} (g) | A _{AFLX-V} (g) | A _{ARIG-V} (g) |
|-------------------------------|---------------------|-------|----------------|-------------------------|-------------------------|-------------------------|-------------------------|
| CBC 2022 / ICC-ES AC156 | 2.50 | 1.0 | 1.5 | 4.0 | 3.0 | - | - |
| | 2.50 | 0 | 1.5 | - | - | 1.67 | 0.67 |

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-10

**UNIT UNDER TEST (UUT)
SUMMARY SHEET**



Mounting Details: Rigid floor mounted with (4) 5/8" grade 5 bolts.



| | |
|---|---|
| Manufacturer: Eaton | Test Location: Wyle Lab, Huntsville AL |
| Product Line: Ventilated Dry Type Transformers | Test Date: June 18-22, 2012 |
| Component: DT-3: V48D28T55EE | Report Number: 70282R12 |

UUT Function: Voltage Transformation

UUT Description: 500kVA, DT-3 3-Phase Transformer, NEMA 2 Enclosure, and Eaton Frame 924-A Aluminum CNC

UUT PROPERTIES

| Weight (lb) | Dimensions (inches) | | | Natural Frequency (Hz) | | |
|-------------|---------------------|-------|--------|------------------------|-----|------|
| | Width | Depth | Height | FB | SS | V |
| 2,416 | 45.0 | 36.5 | 68.5 | 7.6 | 4.1 | 11.0 |

SEISMIC TEST PARAMETERS

| Building Code / Test Criteria | S _{DS} (g) | z / h | I _p | A _{AFLX-H} (g) | A _{ARIG-H} (g) | A _{AFLX-V} (g) | A _{ARIG-V} (g) |
|-------------------------------|---------------------|-------|----------------|-------------------------|-------------------------|-------------------------|-------------------------|
| CBC 2022 / ICC-ES AC156 | 2.10 | 1.0 | 1.5 | 3.36 | 2.52 | - | - |
| | 2.50 | 0 | 1.5 | - | - | 1.67 | 0.67 |

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-39

**UNIT UNDER TEST (UUT)
SUMMARY SHEET**



Mounting Details: Rigid floor mounted with (4) 1/2" grade 5 bolts.



| | |
|--|---|
| Manufacturer: Eaton | Test Location: Wyle Lab, Huntsville AL |
| Product Line: Ventilated Dry Type Transformers | Test Date: June 18-22, 2012 |
| Component: KT-4: H48M28T45CUEELS42 | Report Number: 70282R12 |
| UUT Function: Voltage Transformation | |
| UUT Description: 45kVA, KT-4 3-Phase Transformer, NEMA 2 Enclosure, and Eaton Frame 912B-C Copper CNC | |

UUT PROPERTIES

| Weight (lb) | Dimensions (inches) | | | Natural Frequency (Hz) | | |
|-------------|---------------------|-------|--------|------------------------|------|------|
| | Width | Depth | Height | FB | SS | V |
| 510 | 23.5 | 17.0 | 30.3 | 10.5 | 13.0 | 22.0 |

SEISMIC TEST PARAMETERS

| Building Code / Test Criteria | S _{DS} (g) | z / h | I _p | A _{FLEX-H} (g) | A _{RIG-H} (g) | A _{FLEX-V} (g) | A _{RIG-V} (g) |
|-------------------------------|---------------------|-------|----------------|-------------------------|------------------------|-------------------------|------------------------|
| CBC 2022 / ICC-ES AC156 | 2.50 | 1.0 | 1.5 | 4.0 | 3.0 | - | - |
| | 2.50 | 0 | 1.5 | - | - | 1.67 | 0.67 |

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-25

**UNIT UNDER TEST (UUT)
SUMMARY SHEET**



Mounting Details: Rigid floor mounted with (4) 1/2" grade 5 bolts.



| | |
|--|---|
| Manufacturer: Eaton | Test Location: Wyle Lab, Huntsville AL |
| Product Line: Ventilated Dry Type Transformer | Test Date: Oct. 29 – Nov 2, 2012 |
| Component: DT-3: V44M31T12CU | Report Number: 70566R12 |

UUT Function: Voltage Transformation

UUT Description: 112.5kVA, DT-3 3-Phase Transformer, NEMA 3R Enclosure, and Eaton Frame 915D-C Copper CNC

UUT PROPERTIES

| Weight (lb) | Dimensions (inches) | | | Natural Frequency (Hz) | | |
|-------------|---------------------|-------|--------|------------------------|-----|------|
| | Width | Depth | Height | FB | SS | V |
| 762 | 29.8 | 21.8 | 39.5 | 7.8 | 5.8 | 23.0 |

SEISMIC TEST PARAMETERS

| Building Code / Test Criteria | S _{DS} (g) | z / h | I _p | A _{AFLX-H} (g) | A _{ARIG-H} (g) | A _{AFLX-V} (g) | A _{ARIG-V} (g) |
|-------------------------------|---------------------|-------|----------------|-------------------------|-------------------------|-------------------------|-------------------------|
| CBC 2022 / ICC-ES AC156 | 2.10 | 1.0 | 1.5 | 3.36 | 2.52 | - | - |
| | 2.50 | 0 | 1.5 | - | - | 1.67 | 0.67 |

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-11

**UNIT UNDER TEST (UUT)
SUMMARY SHEET**



Mounting Details: Rigid floor mounted with (4) 1/2" grade 5 bolts.



| | |
|---|---|
| Manufacturer: Eaton | Test Location: Wyle Lab, Huntsville AL |
| Product Line: Ventilated Dry Type Transformers | Test Date: Oct. 29 – Nov 2, 2012 |
| Component: KT-4: H48M28F55CU | Report Number: 70566R12 |
| UUT Function: Voltage Transformation | |
| UUT Description: 500kVA, Type KT-4 3-Phase Transformer, NEMA 2 Enclosure, and Eaton Frame 949-C Copper CNC | |

UUT PROPERTIES

| Weight (lb) | Dimensions (inches) | | | Natural Frequency (Hz) | | |
|-------------|---------------------|-------|--------|------------------------|-----|------|
| | Width | Depth | Height | FB | SS | V |
| 4,683 | 44.8 | 42.8 | 71.5 | 4.6 | 5.1 | 24.0 |

SEISMIC TEST PARAMETERS

| Building Code / Test Criteria | S _{DS} (g) | z / h | I _p | A _{AFLX-H} (g) | A _{ARIG-H} (g) | A _{AFLX-V} (g) | A _{ARIG-V} (g) |
|-------------------------------|---------------------|-------|----------------|-------------------------|-------------------------|-------------------------|-------------------------|
| CBC 2022 / ICC-ES AC156 | 2.10 | 1.0 | 1.5 | 3.36 | 2.52 | - | - |
| | 2.50 | 0 | 1.5 | - | - | 1.67 | 0.67 |

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-8

**UNIT UNDER TEST (UUT)
SUMMARY SHEET**



Mounting Details: Rigid wall mounted with (6) 1/2" grade 5 bolts. Transformer bolts to Eaton wall mount brackets (7073C96G01) with (4) 1/2" grade 5 bolts.



| | |
|---|---|
| Manufacturer: Eaton | Test Location: Wyle Lab, Huntsville AL |
| Product Line: Ventilated Dry Type Transformers | Test Date: June 18-22, 2012 |
| Component: DT-3: V44M28T15CU | Report Number: 70282R12 |

UUT Function: Voltage Transformation

UUT Description: 15kVA, DT-3 3-Phase Transformer, NEMA 2 Enclosure, and Eaton Frame 912B-C Copper CNC

UUT PROPERTIES

| Weight (lb) | Dimensions (inches) | | | Natural Frequency (Hz) | | |
|-------------|---------------------|-------|--------|------------------------|-----|-----|
| | Width | Depth | Height | FB | SS | V |
| 210 | 20.8 | 27.0 | 41.3 | N/A | N/A | N/A |

SEISMIC TEST PARAMETERS

| Building Code / Test Criteria | S _{DS} (g) | z / h | I _p | A _{FLX-H} (g) | A _{RIG-H} (g) | A _{FLX-V} (g) | A _{RIG-V} (g) |
|-------------------------------|---------------------|-------|----------------|------------------------|------------------------|------------------------|------------------------|
| CBC 2022 / ICC-ES AC156 | 2.50 | 1.0 | 1.5 | 4.0 | 3.0 | - | - |
| | 2.50 | 0 | 1.5 | - | - | 1.67 | 0.67 |

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-40

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid wall mounted with (6) 1/2" grade 5 bolts thru Eaton wall mount brackets (7073C96G01) and (2) 3/8" bolts at the top of the transformer. Transformer base bolts to Eaton wall mount brackets with (4) 1/2" grade 5 bolts.



| | |
|--|---|
| Manufacturer: Eaton | Test Location: Wyle Lab, Huntsville AL |
| Product Line: Ventilated Dry Type Transformer | Test Date: June 18-22, 2012 |
| Component: KT-4: H48M28B75EELS47 | Report Number: 70282R12 |
| UUT Function: Voltage Transformation | |
| UUT Description: 75kVA, KT-4 3-Phase Transformer, NEMA 2 Enclosure, and Eaton Frame 915D-A Aluminum CNC | |

UUT PROPERTIES

| Weight (lb) | Dimensions (inches) | | | Natural Frequency (Hz) | | |
|-------------|---------------------|-------|--------|------------------------|-----|-----|
| | Width | Depth | Height | FB | SS | V |
| 714 | 29.5 | 26.8 | 55.0 | N/A | N/A | N/A |

SEISMIC TEST PARAMETERS

| Building Code / Test Criteria | S _{DS} (g) | z / h | I _p | A _{FLX-H} (g) | A _{RIG-H} (g) | A _{FLX-V} (g) | A _{RIG-V} (g) |
|-------------------------------|---------------------|-------|----------------|------------------------|------------------------|------------------------|------------------------|
| CBC 2022 / ICC-ES AC156 | 2.50 | 1.0 | 1.5 | 4.0 | 3.0 | - | - |
| | 2.50 | 0 | 1.5 | - | - | 1.67 | 0.67 |

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-9

**UNIT UNDER TEST (UUT)
SUMMARY SHEET**



Mounting Details: Rigid wall mounted with (6) 1/2" grade 5 bolts thru Eaton wall mount brackets (7073C96G01) and (2) 3/8" bolts at the top of the transformer. Transformer base bolts to Eaton wall mount brackets with (4) 1/2" grade 5 bolts.



| | |
|---|---|
| Manufacturer: Eaton | Test Location: Wyle Lab, Huntsville AL |
| Product Line: Ventilated Dry Type Transformers | Test Date: June 18-22, 2012 |
| Component: DT-3: V44M31T12CU | Report Number: 70282R12 |
| UUT Function: Voltage Transformation | |
| UUT Description: 112.5kVA, DT-3 3-Phase Transformer, NEMA 2 Enclosure, and Eaton Frame 915D-C Copper CNC | |

UUT PROPERTIES

| Weight (lb) | Dimensions (inches) | | | Natural Frequency (Hz) | | |
|-------------|---------------------|-------|--------|------------------------|-----|-----|
| | Width | Depth | Height | FB | SS | V |
| 810 | 29.5 | 28.0 | 55.0 | N/A | N/A | N/A |

SEISMIC TEST PARAMETERS

| Building Code / Test Criteria | S _{DS} (g) | z / h | I _p | A _{FLX-H} (g) | A _{RIG-H} (g) | A _{FLX-V} (g) | A _{RIG-V} (g) |
|-------------------------------|---------------------|-------|----------------|------------------------|------------------------|------------------------|------------------------|
| CBC 2022 / ICC-ES AC156 | 2.50 | 1.0 | 1.5 | 4.0 | 3.0 | - | - |
| | 2.50 | 0 | 1.5 | - | - | 1.67 | 0.67 |

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-44

**UNIT UNDER TEST (UUT)
SUMMARY SHEET**



Mounting Details: Rigid floor mounted with (4) 1/2" grade 5 bolts.



| | |
|--|---|
| Manufacturer: Eaton | Test Location: Wyle Lab, Huntsville AL |
| Product Line: Ventilated Dry Type Transformer | Test Date: June 18-22, 2012 |
| Component: EPT: Y38M28T30N | Report Number: 70282R12 |

UUT Function: Voltage Transformation

UUT Description: 30kVA, EPT 3-Phase Transformer, NEMA 3R Enclosure, Aluminum Windings

UUT PROPERTIES

| Weight (lb) | Dimensions (inches) | | | Natural Frequency (Hz) | | |
|-------------|---------------------|-------|--------|------------------------|------|------|
| | Width | Depth | Height | FB | SS | V |
| 528 | 25.3 | 12.8 | 26.8 | 32.0 | 20.0 | 23.0 |

SEISMIC TEST PARAMETERS

| Building Code / Test Criteria | S _{DS} (g) | z / h | I _p | A _{FLEX-H} (g) | A _{RIG-H} (g) | A _{FLEX-V} (g) | A _{RIG-V} (g) |
|-------------------------------|---------------------|-------|----------------|-------------------------|------------------------|-------------------------|------------------------|
| CBC 2022 / ICC-ES AC156 | 2.50 | 1.0 | 1.5 | 4.0 | 3.0 | - | - |
| | 2.50 | 0 | 1.5 | - | - | 1.67 | 0.67 |

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-14

**UNIT UNDER TEST (UUT)
SUMMARY SHEET**



Mounting Details: Rigid floor mounted with (4) 1/2" grade 5 bolts.



| | |
|--|---|
| Manufacturer: Eaton | Test Location: Wyle Lab, Huntsville AL |
| Product Line: Encapsulated Transformers | Test Date: June 18-22, 2012 |
| Component: EPT: Y39M63T75X | Report Number: 70282R12 |

UUT Function: Voltage Transformation
UUT Description: 75kVA, EPT 3-Phase Transformer, NEMA 3R Enclosure, Aluminum Windings

UUT PROPERTIES

| Weight (lb) | Dimensions (inches) | | | Natural Frequency (Hz) | | |
|-------------|---------------------|-------|--------|------------------------|------|------|
| | Width | Depth | Height | FB | SS | V |
| 1,312 | 30.3 | 15.8 | 32.3 | 18.0 | 20.0 | 23.0 |

SEISMIC TEST PARAMETERS

| Building Code / Test Criteria | S _{DS} (g) | z / h | I _p | A _{AFLX-H} (g) | A _{ARIG-H} (g) | A _{AFLX-V} (g) | A _{ARIG-V} (g) |
|-------------------------------|---------------------|-------|----------------|-------------------------|-------------------------|-------------------------|-------------------------|
| CBC 2022 / ICC-ES AC156 | 2.50 | 1.0 | 1.5 | 4.0 | 3.0 | - | - |
| | 2.50 | 0 | 1.5 | - | - | 1.67 | 0.67 |

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-12

**UNIT UNDER TEST (UUT)
SUMMARY SHEET**



Mounting Details: Rigid floor mounted with (4) 1/2" grade 5 bolts.



| | |
|--|---|
| Manufacturer: Eaton | Test Location: Wyle Lab, Huntsville AL |
| Product Line: Encapsulated Transformers | Test Date: Oct. 29 – Nov 2, 2012 |
| Component: EPT: Y39M28T75Y75034 | Report Number: 70566R12 |

UUT Function: Voltage Transformation
UUT Description: 75kVA, EPT 3-Phase Transformer, NEMA 3R Enclosure, Copper Windings

UUT PROPERTIES

| Weight (lb) | Dimensions (inches) | | | Natural Frequency (Hz) | | |
|-------------|---------------------|-------|--------|------------------------|------|------|
| | Width | Depth | Height | FB | SS | V |
| 1,515 | 30.5 | 15.9 | 32.4 | 21.0 | 19.0 | 30.0 |

SEISMIC TEST PARAMETERS

| Building Code / Test Criteria | S _{DS} (g) | z / h | I _p | A _{AFLX-H} (g) | A _{ARIG-H} (g) | A _{AFLX-V} (g) | A _{ARIG-V} (g) |
|-------------------------------|---------------------|-------|----------------|-------------------------|-------------------------|-------------------------|-------------------------|
| CBC 2022 / ICC-ES AC156 | 2.50 | 1.0 | 1.5 | 4.0 | 3.0 | - | - |
| | 2.50 | 0 | 1.5 | - | - | 1.67 | 0.67 |

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-11

**UNIT UNDER TEST (UUT)
SUMMARY SHEET**



Mounting Details: Rigid wall mounted with (3) 1/4" grade 5 bolts.



| | |
|--|---|
| Manufacturer: Eaton | Test Location: Wyle Lab, Huntsville AL |
| Product Line: Encapsulated Transformers | Test Date: June 18-22, 2012 |
| Component: EP: S10N04A81N | Report Number: 70282R12 |

UUT Function: Voltage Transformation
UUT Description: 50 VA, Type EP Single Phase Transformer, NEMA 3R Enclosure, Copper Windings

UUT PROPERTIES

| Weight (lb) | Dimensions (inches) | | | Natural Frequency (Hz) | | |
|-------------|---------------------|-------|--------|------------------------|-----|-----|
| | Width | Depth | Height | FB | SS | V |
| 8 | 4.3 | 4.3 | 9.3 | N/A | N/A | N/A |

SEISMIC TEST PARAMETERS

| Building Code / Test Criteria | S _{DS} (g) | z / h | I _p | A _{AFLX-H} (g) | A _{ARIG-H} (g) | A _{AFLX-V} (g) | A _{ARIG-V} (g) |
|-------------------------------|---------------------|-------|----------------|-------------------------|-------------------------|-------------------------|-------------------------|
| CBC 2022 / ICC-ES AC156 | 2.50 | 1.0 | 1.5 | 4.0 | 3.0 | - | - |
| | 2.50 | 0 | 1.5 | - | - | 1.67 | 0.67 |

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-13

**UNIT UNDER TEST (UUT)
SUMMARY SHEET**



Mounting Details: Rigid wall mounted with (4) 3/8" grade 5 bolts.



| | |
|--|---|
| Manufacturer: Eaton | Test Location: Wyle Lab, Huntsville AL |
| Product Line: Encapsulated Transformers | Test Date: Oct. 29 – Nov 2, 2012 |
| Component: EPT: Y38D37T15CU | Report Number: 70566R12 |

UUT Function: Voltage Transformation
UUT Description: 15kVA, EPT 3-Phase Transformer, NEMA 3R Enclosure, Copper Windings

UUT PROPERTIES

| Weight (lb) | Dimensions (inches) | | | Natural Frequency (Hz) | | |
|-------------|---------------------|-------|--------|------------------------|-----|-----|
| | Width | Depth | Height | FB | SS | V |
| 300 | 20.3 | 10.6 | 17.5 | N/A | N/A | N/A |

SEISMIC TEST PARAMETERS

| Building Code / Test Criteria | S _{DS} (g) | z / h | I _p | A _{AFLX-H} (g) | A _{ARIG-H} (g) | A _{AFLX-V} (g) | A _{ARIG-V} (g) |
|-------------------------------|---------------------|-------|----------------|-------------------------|-------------------------|-------------------------|-------------------------|
| CBC 2022 / ICC-ES AC156 | 2.50 | 1.0 | 1.5 | 4.0 | 3.0 | - | - |
| | 2.50 | 0 | 1.5 | - | - | 1.67 | 0.67 |

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-15

**UNIT UNDER TEST (UUT)
SUMMARY SHEET**



Mounting Details: Rigid wall mounted with (4) 3/8" grade 5 bolts.



| | |
|--|---|
| Manufacturer: Eaton | Test Location: Wyle Lab, Huntsville AL |
| Product Line: Encapsulated Transformers | Test Date: Oct. 29 – Nov 2, 2012 |
| Component: EPT: Y45001 | Report Number: 70566R12 |

UUT Function: Voltage Transformation
UUT Description: 45kVA, EPT 3-Phase Transformer, NEMA 3R Enclosure, Aluminum Windings

UUT PROPERTIES

| Weight (lb) | Dimensions (inches) | | | Natural Frequency (Hz) | | |
|-------------|---------------------|-------|--------|------------------------|-----|-----|
| | Width | Depth | Height | FB | SS | V |
| 698 | 28.3 | 15.0 | 26.8 | N/A | N/A | N/A |

SEISMIC TEST PARAMETERS

| Building Code / Test Criteria | S _{Ds} (g) | z / h | I _p | A _{FLX-H} (g) | A _{RIG-H} (g) | A _{FLX-V} (g) | A _{RIG-V} (g) |
|-------------------------------|---------------------|-------|----------------|------------------------|------------------------|------------------------|------------------------|
| CBC 2022 / ICC-ES AC156 | 2.30 | 1.0 | 1.5 | 3.68 | 2.76 | - | - |
| | 2.50 | 0 | 1.5 | - | - | 1.67 | 0.67 |

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-12

**UNIT UNDER TEST (UUT)
SUMMARY SHEET**



Mounting Details: Rigid wall mounted with (4) 1/2" grade 5 bolts.



| | |
|--|---|
| Manufacturer: Eaton | Test Location: Wyle Lab, Huntsville AL |
| Product Line: Encapsulated Transformers | Test Date: June 18-22, 2012 |
| Component: EPT: Y48M28T45CU | Report Number: 70282R12 |

UUT Function: Voltage Transformation
UUT Description: 45kVA, EPT 3-Phase Transformer, NEMA 3R Enclosure, Copper Windings

UUT PROPERTIES

| Weight (lb) | Dimensions (inches) | | | Natural Frequency (Hz) | | |
|-------------|---------------------|-------|--------|------------------------|-----|-----|
| | Width | Depth | Height | FB | SS | V |
| 818 | 28.3 | 14.8 | 26.8 | N/A | N/A | N/A |

SEISMIC TEST PARAMETERS

| Building Code / Test Criteria | S _{DS} (g) | z / h | I _p | A _{AFLX-H} (g) | A _{ARIG-H} (g) | A _{AFLX-V} (g) | A _{ARIG-V} (g) |
|-------------------------------|---------------------|-------|----------------|-------------------------|-------------------------|-------------------------|-------------------------|
| CBC 2022 / ICC-ES AC156 | 2.50 | 1.0 | 1.5 | 4.0 | 3.0 | - | - |
| | 2.50 | 0 | 1.5 | - | - | 1.67 | 0.67 |

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.

Table 5

Catalog Identification - Eaton Encapsulated Transformers

2

S 20 N 11 S 05 A

| Prefix Options | Primary Voltage ²⁶ | kVA | Suffix Options | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|---------------------------------|------------------|-------------------|-------------------|----------------------|----------------------|-------------------|----------------------------------|----------------------|-------------------|----------------------------------|----------------------|---------------------|----------------------|------------------|-----------------|-----------------|------------------|---------------------|---------------------|----------------------|---------------------|-----------------|------------------|----------------------|-----------------|------------------------|----------------------|----------------------|---|-----------------|----------------------|------------------|-----------------|----------------------|--|
| <p>Marine Duty</p> <div style="border: 1px solid red; width: 100%; height: 40px; position: relative;"> </div> | <p>13 = 110 x 220 12 = 120 10 = 120 x 240 29 = 208 72 = 200 25 = 220 23 = 230 24 = 240 20 = 240 x 480 27 = 277 38 = 380 39 = 400 43 = 416 44 = 440 45 = 450 48 = 480 57 = 575 60 = 600 42 = 2400 46 = 4160 49 = 4800 40 = Export model 54 = 120/208/240/277</p> | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">81 = 0.05</td> <td style="width: 33%;">03 = 3</td> <td style="width: 33%;">37 = 37.5</td> </tr> <tr> <td>85 = 0.075</td> <td>05 = 5</td> <td>45 = 45</td> </tr> <tr> <td>82 = 0.10</td> <td>06 = 6</td> <td>50 = 50</td> </tr> <tr> <td>83 = 0.15</td> <td>07 = 7.5</td> <td>75 = 75</td> </tr> <tr> <td>26 = 0.25</td> <td>09 = 9</td> <td style="border: 1px solid red; width: 40px; height: 40px;"></td> </tr> <tr> <td>51 = 0.50</td> <td>10 = 10</td> <td style="border: 1px solid red; width: 40px; height: 40px;"></td> </tr> <tr> <td>76 = 0.75</td> <td>15 = 15</td> <td></td> </tr> <tr> <td>01 = 1</td> <td>21 = 22.5</td> <td></td> </tr> <tr> <td>16 = 1.5</td> <td>25 = 25</td> <td></td> </tr> <tr> <td>02 = 2</td> <td>30 = 30</td> <td></td> </tr> </table> | 81 = 0.05 | 03 = 3 | 37 = 37.5 | 85 = 0.075 | 05 = 5 | 45 = 45 | 82 = 0.10 | 06 = 6 | 50 = 50 | 83 = 0.15 | 07 = 7.5 | 75 = 75 | 26 = 0.25 | 09 = 9 | | 51 = 0.50 | 10 = 10 | | 76 = 0.75 | 15 = 15 | | 01 = 1 | 21 = 22.5 | | 16 = 1.5 | 25 = 25 | | 02 = 2 | 30 = 30 | | <p>A...Y = ① CU = ② SS = ③ ZZ = ④ NV = ⑤ X = ⑥ LS = ⑦ AF = ⑧ TR = ⑨ SR = ⑩ CE = ⑪ T = ⑫ E3 = ⑬ SS4X = ⑭ S64X = ⑮ S6 = ⑯ I2 = ⑰ I3 = ⑱ I4 = ⑲ ES = ⑳ DE = ㉑ EE = ㉒ E6 = ㉓ EE6 = ㉔</p> | | | | | | |
| 81 = 0.05 | 03 = 3 | 37 = 37.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 85 = 0.075 | 05 = 5 | 45 = 45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 82 = 0.10 | 06 = 6 | 50 = 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 83 = 0.15 | 07 = 7.5 | 75 = 75 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 = 0.25 | 09 = 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 51 = 0.50 | 10 = 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 76 = 0.75 | 15 = 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 01 = 1 | 21 = 22.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 = 1.5 | 25 = 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 02 = 2 | 30 = 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Type</p> <p>S = EP (single-phase encapsulated) Y = EPT (three-phase encapsulated)</p> <div style="border: 1px solid red; width: 100%; height: 100px; position: relative;"> </div> | <p>Taps</p> <p>D = 2 at +2.5%, 2 at -2.5% E = 1 at +5%, 1 at -5% F = 1 at -10% G = 2 at -5% J = 4 at -2.5% K = 1 at -10% x 2 at -5% L = 2 at -5% x 4 at -2.5% M = 2 at +2.5%, 4 at -2.5% N = None R = 1 at +5%, 2 at -5% P = 1 at +5%, 2 at -5% x 2 at +2.5%, 4 at -2.5% T = 1 at +4.2%, 1 at -4.2% U = 1 at +2.5%, 3 at -2.5% W = 1 at +3.5%, 1 at -3.5% X = 2 at +3.1%, 2 at -3.1%</p> | <p>Temperature Rise</p> <p>T = 150 °C rise with 220 °C insulation system (ventilated); 115 °C rise with 180 °C insulation system (encapsulated and MPC three-phase) F = 115 °C rise with 220 °C insulation system (ventilated) B = 80 °C rise with 220 °C insulation system (ventilated); 80 °C rise with 180 °C insulation system (encapsulated) H = 130 °C rise with 200 °C insulation system (ventilated) G = 115 °C rise with 200 °C insulation system (ventilated)</p> <p>J = 80 °C rise with 200 °C insulation system (ventilated) P = 115 °C rise with 130 °C insulation system (encapsulated single-phase ≤2 kVA) S = 115 °C rise with 180 °C insulation system (encapsulated and MPC single-phase); 150 °C rise with 220 °C insulation system (ventilated single-phase) E = Electrostatically shielded</p> | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #e0f0e0;"> <th colspan="3">Secondary Voltage ²⁶</th> </tr> </thead> <tbody> <tr> <td>04 = 12/24</td> <td>31 = 220Y/127</td> <td>35 = 440Y/254</td> </tr> <tr> <td>06 = 16/32</td> <td>26 = 220 delta/110 midtap</td> <td>62 = 460Y/266</td> </tr> <tr> <td>08 = 24/48</td> <td>22 = 240 delta/120 midtap</td> <td>47 = 480Y/277</td> </tr> <tr> <td>14 = 110/220</td> <td>64 = 240Y/139</td> <td>48 = 480</td> </tr> <tr> <td>12 = 120</td> <td>24 = 240</td> <td>60 = 600</td> </tr> <tr> <td>11 = 120/240</td> <td>21 = 240/480</td> <td>61 = 600Y/346</td> </tr> <tr> <td>54 = 127/254</td> <td>27 = 277</td> <td>42 = 2400</td> </tr> <tr> <td>19 = 190Y/110</td> <td>38 = 380</td> <td>41 = 4160Y/2400</td> </tr> <tr> <td>28 = 208Y/120</td> <td>37 = 380Y/220</td> <td>46 = 4160</td> </tr> <tr> <td>29 = 208</td> <td>34 = 400Y/231</td> <td>49 = 4800</td> </tr> <tr> <td>25 = 220</td> <td>51 = 416Y/240</td> <td></td> </tr> </tbody> </table> | Secondary Voltage ²⁶ | | | 04 = 12/24 | 31 = 220Y/127 | 35 = 440Y/254 | 06 = 16/32 | 26 = 220 delta/110 midtap | 62 = 460Y/266 | 08 = 24/48 | 22 = 240 delta/120 midtap | 47 = 480Y/277 | 14 = 110/220 | 64 = 240Y/139 | 48 = 480 | 12 = 120 | 24 = 240 | 60 = 600 | 11 = 120/240 | 21 = 240/480 | 61 = 600Y/346 | 54 = 127/254 | 27 = 277 | 42 = 2400 | 19 = 190Y/110 | 38 = 380 | 41 = 4160Y/2400 | 28 = 208Y/120 | 37 = 380Y/220 | 46 = 4160 | 29 = 208 | 34 = 400Y/231 | 49 = 4800 | 25 = 220 | 51 = 416Y/240 | |
| Secondary Voltage ²⁶ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 04 = 12/24 | 31 = 220Y/127 | 35 = 440Y/254 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 06 = 16/32 | 26 = 220 delta/110 midtap | 62 = 460Y/266 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 08 = 24/48 | 22 = 240 delta/120 midtap | 47 = 480Y/277 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 = 110/220 | 64 = 240Y/139 | 48 = 480 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 = 120 | 24 = 240 | 60 = 600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 = 120/240 | 21 = 240/480 | 61 = 600Y/346 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 54 = 127/254 | 27 = 277 | 42 = 2400 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 = 190Y/110 | 38 = 380 | 41 = 4160Y/2400 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 = 208Y/120 | 37 = 380Y/220 | 46 = 4160 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 = 208 | 34 = 400Y/231 | 49 = 4800 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 = 220 | 51 = 416Y/240 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |