

DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

OFFICE USE ONLY APPLICATION FOR HCAI SPECIAL SEISMIC **CERTIFICATION PREAPPROVAL (OSP)** APPLICATION #: OSP-0745 **HCAI Special Seismic Certification Preapproval (OSP)** X New Type: Renewal **Manufacturer Information** Manufacturer: Trane Manufacturer's Technical Representative: Joe Donikowski Mailing Address: 800 Beaty St, Davidson, NC 28036 Telephone: (704) 572-7113 Email: Joseph.Donikowski@Trane.com **Product Information** Product Name: Industrial Control Panels Product Type: Variable Frequency Drives and Starters Product Model Number: NEMA 3R ENCLOSED VFD DRIVES (See Attachment) General Description: Enclosed VFD drive for variable speed control of 3 phase induction motor with or without bypass backup. Mounting Description: Rigid or Flexible, Wall Mounted Seismic enhancements made to the test units and/or modifications required to address Tested Seismic Enhancements: anomalies during the tests shall be incorporated into the production units. **Applicant Information** Applicant Company Name: EASE LLC Contact Person: Jonathan Roberson Mailing Address: 5877 Pine Ave. Suite 210, Chino Hills, CA 91709 Telephone: (909) 606-7622 Email: jon@easeco.com





Title: Principal Structural Engineer

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| California Licensed Structural Engineer Responsible for the Engineering and Test Re | port(s) |
|---|---------|
| Company Name: EASE LLC | |
| Name: Jonathan Roberson California License Number: S4197 | |
| Mailing Address: 5877 Pine Ave., Suite 210, Chino Hills, CA 91709 | |
| Telephone: (951) 295-1892 | |
| | |
| Certification Method | |
| GR-63-Core X ICC-ES AC156 IEEE 344 IEEE 693 | NEBS 3 |
| Other (Please Specify): | |
| EOR CODE CO | |
| Testing Laboratory | |
| Company Name: ENVIRONMENTAL TESTING LABORATORIES, INC. (ETL) | |
| Contact Person: Brady Richard | |
| Mailing Address: 11034 Indian Trail, Dallas TX 75229-3513 | |
| Telephone: (972) 247-9657 Email: brady@etldallas.com | |
| | |
| DATE: 09/14/2022 | |
| | |







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| Seismic Parameters | |
|---|--|
| Design Basis of Equipment or Components | (Fp/Wp) = 1.87 (Rigid Wall) / 4.68 (Flexible Wall) |
| SDS (Design spectral response accele | eration at short period, g) = 2.60 |
| ap (Amplification factor) = | 1 (Rigid Wall) / 2 1/2 (Flexible Wall) |
| R _P (Response modification factor) = | 2 1/2 (Rigid Wall) / 2 1/2 (Flexible Wall) |
| Ω0 (System overstrength factor) = | 2.0 |
| I _P (Importance factor) = | 1.5 |
| z/h (Height ratio factor) = | 1 |
| Natural frequencies (Hz) = | See Attachment |

| HCAI A | pproval (For Office Use Only) - Approval Expires on 09/14/202 | 28 7 | |
|----------|---|--------|-------------------------------|
| Date: | 9/14/2022 OSP-0745 | 16 | |
| Name: | Mohammad Karim | Title: | Supervisor, Health Facilities |
| Special | Seismic Certification Valid Up to: Sps (g) = 2.60 | z/h = | 1 |
| Conditio | n of Approval (if applicable): DATF · 09/14/2022 | 1 0 | |

See Attachment





Overall dimensions and weight =

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ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

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TABLE 1: SEISMIC CERTIFIED COMPONENTS

| Manufacturer | Trane | | | | | | | | |
|--------------------|---------------------------|--|---|---|---|---|---|--|---|
| Product Line | Trane T | Гуре 3R | Enclose | d VFD Drive | s | | | | |
| Identification [2] | | SERIES /FD Drive | | | BASE DRIV TR-200 | 'E MODEL | ENCLO T200 | SED DRIVE (PANEL) | |
| Panel | Dime | nsions (| in.) ^[3] | Max. Wt. | | HP | Drive | | |
| Frame | W | D | Н | (lb.) | Voltage | Range | Frame | Basis [1] | Panel Type Codes [2][5] |
| | | | | | 208/230V | 0.5 – 5 | A2 / A3 | UUT-1901-3 / UUT-1901-4 | T200005T1E3R3CMN2XXCXXZ2XGXXXXXXXGKXXXXX |
| 4 | 20.0 | 440 | 20.2 | 400 | 208/2 <mark>30</mark> V | 7.5 – 10 | B3 [4] | INT | See Figure 1 |
| 1 | 29.0 | 14.2 | 30.3 | 128 | 460 <mark>/6</mark> 00V | 1.5 – 10 | A2 / A3 | UUT-19 <mark>01-1 / U</mark> UT-1901-2 | T200010T4E3R3CCD13XDGFZ2XGXXXXXXXJKXXXXE |
| | | | | | 460/600V | 15 – 25 | D_B37 ^[4] 5 | INT | See Figure 1 |
| | | | | | 208/230V | 7.5 – 10 | B3 | INT | See Figure 1 |
| 2/2 | 27.0 | 44.5 | 20.4 | 225 | 208/230V | 15 – 20 | B4 | orim INT | See Figure 1 |
| 2/3 | 37.2 | 14.5 | 38.4 | 225 | 460/600V | 15 – 25 | B3 | INT | See Figure 1 |
| | | | | | 460/600V | 30 – 40 | B4 | INT | See Figure 1 |
| 4 | 44.4 | 47.0 | 47.4 | 000 | 208/230V | 25 – 30 |)9/ _{C3} /20 | 22 INP | See Figure 1 |
| 4 | 44.4 | 17.9 | 47.4 | 300 | 460/600V | 50 – 75 | C3 | TÜ | See Figure 1 |
| | | | | | 208/ <mark>230</mark> V | 40 – 60 | C4 | INT | See Figure 1 |
| 5 | 46.2 | 17.9 | 60.2 | 540 | 460/600V | 100 – 125 | C4 | UUT-1901-5 / UUT-1901-6 | T200125T4E3R3CMN23XSXXZ2XGXXXXXXXJKXXXX0 |
| | | | | | 460/600 V | 100 – 125 | C4 | UUT-1901-7 / UUT-1901-9 | T200125T4E3R3CCD23XCXXZ2XGXXXXXXXJKXXXX0 |
| Enclosure | 14ga. Ca | arbon stee | el. NEMA | Type 3R by Ho | offmann Enclosu | res. | ITDIME | | |
| Mounting | WALL (F | RIGID or F | LEXIBLE) | : component is | rigidly mounted | to the surface of | a wall or other | vertical support. Support structu | ure may be rigid or flexible. |
| Notes | 2. Typerec acc 3. All pro | UUT#: Ir INT (Inte the prod be Code d cognized a cepted by units teste ducts prod Drive Frai | erpolate or uct line. efines the nd accept this OSP a ed included duced afte mes in Pa | Extrapolate): i configuration of ed by this OSF are listed in Tal d enhancemen or March 31, 20 nel Size 1 are | of the panel. Each r, see Figure 1. I ble 2. ts to standard ma 120. | guration not speci ch alphanumeric of For cases in whic anufactured produ pass without option | character define h the Type Cod ucts to improve | es a configurable option in the pa e character does not uniquely ic seismic performance. These m | n is established through evaluation of testing of similar units in anel. For a complete listing of the Type Code characters dentify the corresponding subcomponent, the variations additions became part of all standard manufactured |

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

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FIGURE 1: CERTIFIED PANEL TYPE CODES

• INDICATES PARAMETER VALUE OF UUT CONFIGURATION, ALL OTHER ALLOWED VALUES ARE INTERPOLATED

Gray italic formatting indicates type code is not part of product line. Unit is used as basis for seismic qualification only.

| T | 2 | 0 | (|) | | | | Т | | Ε | 3 | R | | | | | | | Χ | | | | Ζ | | | | | X | X | | | | X | | | | | | | |
|---|---|---|-----|-----|---|-----|---|---|---|----|----|-----|-----|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|------|------|-------|-----|----|----|----|----|----|----|
| 1 | 2 | 3 | . 4 | 1 ! | 5 | 6 7 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| | | | | | | | | | | | Pa | nel | Opt | ions | | | | | | | | | | | | | | | Op | tion | s In | tern | al to | Dri | ve | | | | | |

| | | Allowed | RCODECO | | | UU' | T-19 | 901 | _ | | |
|-----------|----------------|---------|-----------------------|---|---|-----|------|-----|---|---|---|
| Character | Parameter | Value | Description | 1 | 2 | 3 | 4 | | 6 | 7 | 9 |
| 1 | Prefix | NS I | Danfoss Danfoss | • | • | • | • | • | • | • | • |
| 1 | Prenx | T | Trane | | | | | | | | |
| 2-4 | Drive Category | 102 | HVAC Drive | • | • | • | • | • | • | • | • |
| 2-4 | Drive Category | 200 | Trane - 0745 | | | | | | | | |
| | | H50 | .5 hp | | | | | | | | |
| | | H75 | .75 hp | | | | | | | | |
| | | 001 Y | onammad Karim | | | | | | | | |
| | | 1H5 | 1.5 hp | | | | | | | | |
| | | 002 | 2 hp 3 hp9/14/2022 | | | | | | | | |
| | | 003 | | | | | | | | | |
| | | 005 | 5 hp | | | • | • | | | | |
| | | 7H5 | 7.5 hp | | | | | | | | |
| | | 010 | 10 hp | • | • | | | | | | |
| 5-7 | Power Size | 015 | 15 hp | | | | | | | | |
| | | 020 | 20 hp | | | | | | | | |
| | | 025 | 25 hp | | | | | | | | |
| | | 030 | 30 hp | | | | | | | | |
| | | 040 | 40 hp | | | | | | | | |
| | | 050 | 50 hp | | | | | | | | |
| | | 060 | 60 hp | | | | | | | | |
| | | 075 | 75 hp | | | | | | | | |
| | | 100 | 100 hp | | | | | | | | |
| | | 125 | 125 hp | | | | | • | • | • | • |
| \Box | | T1 | 208 Volt | | | • | • | | | | |
| 8-9 | Voltage | T2 | 230 Volt | | | | | | | | |
| 0-9 | v Ollaye | T4 | 460 Volt | • | • | | | • | • | • | • |
| | | T6 | 600 Volt | | | | | | | | |

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ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

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| | | Allowed | | | | UU | T-1 | 901 | | | |
|-----------|-----------------------|------------------|--|---|---|----|-----|-----|---|---|---|
| Character | Parameter | Value | Description | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 9 |
| 10-12 | Enclosure Type | E3R | Nema 3R | • | • | • | • | • | • | • | • |
| | | N0 | No Bypass | | | | | | | | |
| 13-14 | Bypass Circuit | 2C | 2 Contactor Bypass | | | | | | | | |
| | | 3C | 3 Contactor Bypass | • | • | • | • | • | • | • | • |
| | | D | Drive Disconnect Switch | | | | | | | | |
| | | M | Main Disconnect Switch | | | • | • | • | • | | |
| 15 | Switches | C | Main Circuit Breaker | • | • | | | | | • | • |
| | | N | Main & Drive Disconnect Switches | | | | | | | | |
| | | F | Main Circuit Breaker & Drive Disconnect Switch | | | | | | | | |
| | | X | None | | | | | | | | |
| 16 | Power Fusing | D | Drive Fusing | • | • | | | | | • | • |
| 10 | Power rusing | M | Main & Drive Fusing | | | | | | | | |
| | Q | N | 100 KAIC SCCR | | | • | • | • | • | | |
| | | XXXXXXX | None | | | | | | | | |
| 17 | Control Selection A | BY: M | ECB Package Karim | • | • | | | | | | |
| | | 2 | EMB 2 Package | | | • | • | • | • | • | • |
| | | X | None | | | • | • | | | | |
| 18 | Reactors | 3)ATE | 3% Input Line Reactor | • | • | | | • | • | • | • |
| | _ | P. D. D. SERVICE | Output Filter dV/dt Filter | | | | | | | | |
| 19 | Power Rating Style | X | P Style Power Rating | • | • | • | • | • | • | • | • |
| | | S | Single Motor | | | | | • | • | | |
| 20 | Motor Quantity | D | Dual Motor | • | • | | | | | | |
| | | C | Contactor Motor Select | | | • | • | | | • | • |
| | | A | 0.5 hp 1 0 | | | | | | | | |
| | | В | 0.75 hp | | | | | | | | |
| | | С | 1.0 hp | | | | | | | | |
| | | D | 1.5 hp | | | | | | | | |
| | | E | 2.0 hp | | | | | | | | |
| 21 / 22 | Motor 1 / Motor 2 | F | 3.0 hp | • | • | | | | | | |
| 21/22 | IVIOLOI I / IVIOLOI Z | G | 5.0 hp | • | • | | | | | | |
| | | Н | 7.5 hp | | | | | | | | |
| | | I | 10 hp | | | | | | | | |
| | | J | 15 hp | | | | | | | | |
| | | K | 20 hp | | | | | | | | |
| | | L | 25 hp | | | | | | | | |

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ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

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| | | Allowed | | | | UU | T-1 | 901 | | | |
|------------------------|-------------------------------|---------------------|-----------------------------|---|---|----|-----|-----|---|---|---|
| Character | Parameter | Value | Description | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 9 |
| | | М | 30 hp | | | | | | | | |
| | | N | 40 hp | | | | | | | | |
| 04 / 00 | NA / A /NA / O | 0 | 50 hp | | | | | | | | |
| 21 / 22 (continued) | Motor 1 / Motor 2 (continued) | Р | 60 hp | | | | | | | | |
| (continued) | (continuca) | Q | 75 hp | | | | | | | | |
| | | R | 100 hp | | | | | | | | |
| | | X | NONE (Not Applicable) | | | • | • | • | • | • | • |
| 23 | Future Option | Z | NONE (No Future Option) | • | • | • | • | • | • | • | • |
| 24 | RFI Filter | 1 | Class A1/B | | | | | | | | |
| 24 | Kri riilei | 2 | Standard Filter | • | • | • | • | • | • | • | • |
| | | X | No Brake Chopper | • | • | • | • | • | • | • | • |
| 25 | Brake & Stop | В | Brake Chopper | | | | | | | | |
| 25 | brake & Stop | <i>₹ (</i> ////// T | Safe Stop | | | | | | | | |
| | | | Brake Chopper & Safe Stop | | | | | | | | |
| | | GV·N | Graphical Agrim | • | • | • | • | • | • | • | • |
| 26 | Display | WARRA X | Blank cover | | | | | | | | |
| | | N | Numerical | | | | | | | | |
| 27 | Coating | TACK | No Conformal Coating | • | • | • | • | • | • | • | • |
| 21 | Coating | C | Conformal Coating | | | | | | | | |
| 28 | Adaptation A | X | NONE (No Adaptation) | • | • | • | • | • | • | • | • |
| 29 | Adaptation B | X | NONE (No Adaptation) | • | • | • | • | • | • | • | • |
| | | XXX | Latest Release | • | • | • | • | • | • | • | • |
| 30-32 | Software | 001 | Special – Krones | | | | | | | | |
| | | 002 | Special - Ammann | | | | | | | | |
| 33 | Software Language | Х | Standard Language Package | • | • | • | • | • | • | • | • |
| | | Х | No Option | | | | | | | | |
| 2.4 | Ontions A | G | MCA-108 LonWorks | | | • | • | | | | |
| 34 | Options A | J | MCA-109 BACNet | | | | | | | | |
| | | К | MCA-109 BACNet Top Entry | • | • | | | • | • | • | • |
| | | Х | No Option | | | | | | | | |
| | | 0 | Analog I/O MCB 109 | • | • | | | • | • | • | • |
| 25 | Ontions D | 5 | Programmable I/O | | | | | | | | |
| 35 | Options B | K | MCB-101 General Purpose I/O | | | • | • | | | | |
| | | Р | Relay Card MCB 105 | | | | | | | | |
| | | W | Real Time Clock | | | | | | | | |

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ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

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| | | Allowed | | | | UU | T-19 | 901 | | | |
|-----------|------------|---------|------------------------------|---|---|----|------|-----|---|---|---|
| Character | Parameter | Value | Description | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 9 |
| | | Х | No Selection | • | • | • | • | • | • | • | • |
| 36 | Options C1 | 4 | SyncPos | | | | | | | | |
| | | 5 | Advanced Cascade Control | | | | | | | | |
| | | Х | No Selection | • | • | • | • | • | • | • | • |
| | | Α | ProfiSafe-Safe stop | | | | | | | | |
| 37 | Options C2 | Р | Input/Output Block | | | | | | | | |
| | | M | Mains Synchronization | | | | | | | | |
| | | 8 | ProfiSafe-Safe Speed | | | | | | | | |
| | | XX | No software option | • | • | • | • | • | • | • | • |
| | | 10 | Synchro. Control | | | | | | | | |
| 38-39 | Options C3 | 11 | Positioning Control | | | | | | | | |
| | | 12 | Center Winder | | | | | | | | |
| | | 13 | Cut-on-the-fly | | | | | | | | |
| | | XXXXXXX | No option | | | • | • | | | | |
| 40 | Options D | BV·M | Interface for 24V dc MCB 107 | | | | | • | • | • | • |
| | | - WIE | ECB24V dc backup | • | • | | | | | | |



ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

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TABLE 2: SEISMIC CERTIFIED SUBCOMPONENTS

| Subcomponent Name | Type Code Sequence Position(s) | Type Code Sequence Character(s) | Manufacturer | Manufacturer Part Number | Rating (Amps/kVA) | Subcomponent Frame Size | Frame Size Application | Basis ^[1] |
|----------------------|--------------------------------------|---------------------------------------|--------------|-----------------------------|----------------------|----------------------------|---------------------------|----------------------|
| | | | | 185B6490 | N/A | 1 | N/A | 1, 2, 3, 4 |
| | 40 44 40 | FOD | 11-# | 185B6493 | N/A | 2/3 | N/A | INT |
| Enclosure | 10, 11, 12 | E3R | Hoffman | 185B6494 | N/A | 4 | N/A | INT |
| | | | , NY | 185B6495 | N/A | 5 | N/A | 5, 6, 7, 8, 9 |
| | | | | CL00D310TD | 10 | | 1 | SAME |
| | | | 4 | CL01D310TD 74 | 5 13.8 | CL00D3, CL01D3 & CL02D3 | 1 | SAME |
| | | | | CL02D310TD | 17.5 | W 020230 | 1 | 1, 2, 3, 4 |
| | | | | CL25D310TD | Karim ²² | CL25D3 | 1 | INT |
| | | | | CL04D310MD | 32 | CL03D3 & CL04D3 | 1 | INT |
| Contactor | 13 & 14 | N0, 2C, 3C | | CL05D310MD/_ | 34 | CL05D3 | 1 & 2/3 | INT |
| Contactor | 13 & 14 | NU, 2C, 3C | GE | CL07E311MD | 100 | CL06D3, CL07D3 | 2/3 | INT |
| | | | | CL08E311MD | 110 | & CL08D3 | 4 | INT |
| | | | 0 | CL09E311MD | 120 | CL09D3 & CL10D3 | 4 | INT |
| | | | | CL10E311MD | 140 | CL09D3 & CL10D3 | 4 & 5 | INT |
| | | | | CK75CA311J | 150 | CK75C & CK08C | 5 | SAME |
| | | | | CK08CA311J | 185 | CK75C & CK06C | 5 | 5, 6, 7, 8, 9 |
| | | | | XT1NU3015AAA00NXXX | | | 1 | SAME |
| | | | | XT1NU3020AAA00NXXX | | | 1 | SAME |
| | | | | XT1NU3025AAA00NXXX | | | 1 | SAME |
| Circuit Breaker | 15 | С | ABB | XT1NU3030AAA00NXXX | 15-125 | XT1 | 1 | 1 & 2 |
| | | | | XT1NU3040AAA00NXXX | | | 1 | SAME |
| | | | | XT1NU3050AAA00NXXX | | | 1 | SAME |
| | | | | XT1NU3060AAA00NXXX | | | 1 | SAME |

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| Subcomponent Name | Type Code Sequence Position(s) | Type Code Sequence Character(s) | Manufacturer | Manufacturer Part Number | Rating (Amps/kVA) | Subcomponent Frame Size | Frame Size Application | Basis ^[1] |
|----------------------|--------------------------------------|---------------------------------------|--------------|-----------------------------|-----------------------|----------------------------|---------------------------|----------------------|
| | | 2 | | XT1NU3070AAA00NXXX | | | 1 & 2/3 | SAME |
| | | | | XT1NU3080AAA00NXXX | | | 2/3 | SAME |
| | | | | XT1NU3090AAA00NXXX | 15-125 (continued) | XT1 (continued) | 2/3 | SAME |
| | | | | XT1NU3100AAA00NXXX | (continued) | (continued) | 2/3 & 4 | SAME |
| Circuit Breaker | 15 | С | ABB | XT1NU3125AAA00NXXX | | | 2/3 | SAME |
| (continued) | (continued) | (continued) | (continued) | XT3NU3150AFF00NXXX | | | 4 | |
| | | | | XT3NU3175AFF00NXXX | | \ | 4 | |
| | | | 8/ | XT3NU3200AFF00NXXX | 5 150-225 | XT3 | 4 & 5 | INT |
| | | | | XT3NU3225AFF00NXXX | | | 5 | |
| | | | | XT4NU3250AFF00NXXX | Karim ₂₅₀ | XT4 | 5 | 7, 8, 9 |
| | | | | OT16F3 | 20 | | 1 & 2/3 | |
| | | | | OT25F3/14/2 | 022 30 0 | OT16F3, OT25F3, OT40F3 | 1 & 2/3 | INT |
| | | | | OT40F3 | 40 0 | 014013 | 1 & 2/3 | |
| Drive Discouncet | 45 | D | ADD | OT63F3 | 60 | 070050 070050 | 1 & 2/3 | INIT |
| Drive Disconnect | 15 | D | ABB | OT80F3 | 80 | OT63F3, OT80F3 | 2/3 | INT |
| | | | | OT100F3 | 100 | OT100F3 | 2/3 & 4 | INT |
| | | | | OT160G03 | 125 | OT160G03 | 2/3, 3 & 4 | INT |
| | | | | OT200U03 | 200 | OT200U03 | 5 | INT |
| | | | | OT30F3 | 30 | 070050 070050 | 1 | INT |
| | | | | OT60F3 | 60 | OT30F3, OT60F3, OT100F3 | 1 & 2/3 | 11 11 1 |
| Mains Disconnect | 15 | М | ABB | OT100F3 | 100 | | 4 | INT |
| | | | | OT160G03 | 125 | OT160G | 4 & 5 | INT |
| | | | | OT200U03 | 200 | OT200U | 5 | 5 & 6 |

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

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| Subcomponent Name | Type Code Sequence Position(s) | Type Code Sequence Character(s) | Manufacturer | Manufacturer Part Number | Rating (Amps/kVA) | Subcomponent Frame Size | Frame Size Application | Basis ^[1] |
|----------------------|--------------------------------------|---------------------------------------|-------------------|-----------------------------|----------------------|----------------------------|---------------------------|----------------------|
| | | | | OS30FAJ12 | 30 | OS30FA | 1 | 3 & 4 |
| | | | | OS60GJ03 | 60 | OS60G | 1 | INT |
| Mains & Drive | 45 | N. | ADD | OS60GJ12 | 60 | OS60G | 1 | INT |
| Disconnect | 15 | N | ABB | OT100F3 | 100 | OT100F3 | 2/3 | INT |
| | | | | OT160G03 | 125 | OT160G | 4 & 5 | INT |
| | | | | OT200U03 | 200 | OT200U | 5 | 5 & 6 |
| | | | | JJN-10 | 10 | \ | 1 & 2/3 | SAME |
| | | | RE | JJN-15 - U / 4 | 15 | JJN 1-30 | 1 & 2/3 | SAME |
| | | | | JJN-20 | 20 | JJIN 1-30 | 1 & 2/3 | SAME |
| | | | | BY:Mghammad∣ | Karim ₃₀ | | 1 & 2/3 | 3 & 4 |
| | | | | JJN-50 | 50 | JJN 35-60 | 1 & 2/3 | INT |
| | | D | | DATEJJN60/14/2 | 022 60 / 6 | JJIN 33-60 | 3 | INT |
| | | (Drive Fusing | Z | JJN-80 | 80 | JJN 70-100 | 3 | INT |
| Power Fusing | 16 | also used in conjuction | Cooper Bussman | JJN-125 | 125 | | 4 | INT |
| 1 ower 1 daing | 10 | with M & N | (Eaton) | JJN-150 | 150 | JJN 110-200 | 5 | INT |
| | | options if selected) | | JJN-200 | 200 | | 5 | INT |
| | | 00100100) | | JJN-250 DI | 250 | JJN 225-400 | 5 | INT |
| | | | | JJS-6 | 6 | | 1 & 2/3 | SAME |
| | | | | JJS-10 | 10 | | 1 & 2/3 | SAME |
| | | | | JJS-20 | 20 | JJS 1-30 | 1 & 2/3 | SAME |
| | | | | JJS-25 | 25 | | 1 & 2/3 | SAME |
| | | | | JJS-30 | 30 | | 1 & 2/3 | 1 & 2 |

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

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| Subcomponent Name | Type Code Sequence Position(s) | Type Code Sequence Character(s) | Manufacturer | Manufacturer Part Number | Rating (Amps/kVA) | Subcomponent Frame Size | Frame Size Application | Basis ^[1] |
|----------------------|--------------------------------------|---------------------------------------|--|-----------------------------|----------------------|----------------------------|---------------------------|----------------------|
| | | | | JJS-35 | 35 | | 1 & 2/3 | INT |
| | | | | JJS-40 | 40 | | 1 & 2/3 | INT |
| | | | | JJS-45 | 45 | JJS 35-60 | 1 & 2/3 | INT |
| | | D | | JJS-50 | 50 | | 2/3 | INT |
| | | (Drive Fusing | | JJS-60 | 60 | | 2/3 | INT |
| | | also used in conjuction | Cooper Bussman | JJS-80 | 80 | 110 70 400 | 4 | INT |
| | | with M & N | (Eaton) | JJS-100 | 100 | JJS 70-100 | 4 | INT |
| | optior select | options if selected) | (continued) | JJS-125 - 074 | 125 | | 4 | INT |
| | | (continued) | | JJS-150 | 150 | 110 440 200 | 4 & 5 | INT |
| | | | | 3Y: Modsarshmad I | Karim175 (| JJS 110-200 | 5 | INT |
| | | | ////////////////////////////////////// | JJS-200 | 200 | | 5 | INT |
| Power Fusing | 16 | | | ATEJJS-250/14/2 | 022 250 | JJS 225-400 | 5 | 5, 6, 7, 8, 9 |
| (continued) | (continued) | | Z | LPJ-3SP | 3 5 | | 1 & 2/3 | SAME |
| | | | | LPJ-6SP | 6 | | 1 & 2/3 | SAME |
| | | | 0 | LPJ-10SP | 10 | | 1 & 2/3 | SAME |
| | | | | LPJ-15SP | 15 | LPJ 1-30 | 1 & 2/3 | SAME |
| | | | | LPJ-20SP | 20 | | 1 & 2/3 | SAME |
| | | M & N (Mains Fusing | Cooper Bussman | LPJ-25SP | 25 | | 1 & 2/3 | SAME |
| | | only) | (Eaton) | LPJ-30SP | 30 | | 1 & 2/3 | 3 & 4 |
| | | | | LPJ-35SP | 35 | | 1 & 2/3 | INT |
| | | | | LPJ-40SP | 40 | | 1 & 2/3 | INT |
| | | | | LPJ-45SP | 45 | LPJ 35-60 | 1 & 2/3 | INT |
| | | | | LPJ-50SP | 50 | | 1 & 2/3 | INT |
| | _ | | | LPJ-60SP | 60 | | 1 & 2/3 | INT |

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

ATTACHMENT PAGE | 10 OF 14

| Subcomponent Name | Type Code Sequence Position(s) | Type Code Sequence Character(s) | Manufacturer | Manufacturer Part Number | Rating (Amps/kVA) | Subcomponent Frame Size | Frame Size Application | Basis ^[1] |
|----------------------|--------------------------------------|---------------------------------------|----------------------------|-----------------------------|----------------------|----------------------------|---------------------------|----------------------|
| | | | | LPJ-70SP | 70 | | 2/3 | INT |
| | | | | LPJ-80SP | 80 | LPJ 70-100 | 2/3 | INT |
| | | | | LPJ-90SP | 90 | LPJ 70-100 | 3 & 4 | INT |
| | | | | LPJ-100SP | 100 | | 3 & 4 | INT |
| | | | | LPJ-110SP | 110 | | 4 | INT |
| Power Fusing | 16 | M & N (Mains Fusing | Cooper Bussman | LPJ-125SP | 125 | | 4 | INT |
| (continued) | (continued) | only) | (Eaton) | LPJ-150SP | 150 | LPJ 110-200 | 4 & 5 | INT |
| | | (continued) | (co <mark>ntinue</mark> d) | LPJ-175SP 074 | 175 | | 5 | INT |
| | | | | LPJ-200SP | 200 | | 5 | INT |
| | | | | 3Y: N.LPJ-225\$Pmad | Karim225 (| | 5 | 5, 6, 7, 8, 9 |
| | | | | LPJ-250SP | 250 | LPJ 225-400 | 5 | SAME |
| | | | | △TLPJ-300SP14/2 | 022 300 / 6 | | 5 | SAME |
| | | | E | RLW-01P103 | STREETS OF | | 1 & 2/3 | INT |
| | | | | RLW-01P603 | | | 1 & 2/3 | INT |
| | | | 0 | RLW-01P606 | 1.6 | | 1 & 2/3 | INT |
| | | | | RLW-02P103 | | | 1 & 2/3 | INT |
| | | | | RLW-02P106 | 2.1 | | 1 & 2/3 | INT |
| Reactor | 18 | X, 3, D | MTE | RLW-02P105 | | N/A | 1 & 2/3 | INT |
| Reactor | 18 | Χ, 3, D | IVI I E | RLW-03P401 | 3.4 | N/A | 1 & 2/3 | INT |
| | | | | RLW-03P403 | 3.4 | | 1 & 2/3 | INT |
| | | | | RLW-04P801 | 4.8 | | 1 & 2/3 | INT |
| | | | | RLW-04P803 | 4.0 | | 1 & 2/3 | INT |
| | | | | RLW-07P601 | 7.6 | | 1 & 2/3 | INT |
| | | | | RLW-03P405 | 3.4 | | 1 & 2/3 | INT |

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

ATTACHMENT PAGE | 11 OF 14

| Subcomponent Name | Type Code Sequence Position(s) | Type Code Sequence Character(s) | Manufacturer | Manufacturer Part Number | Rating (Amps/kVA) | Subcomponent Frame Size | Frame Size Application | Basis [1] |
|----------------------|---|---------------------------------------|--------------------|-----------------------------|----------------------|----------------------------|---------------------------|-----------|
| | | | | RLW-04P805 | 4.8 | | 1 & 2/3 | INT |
| | | | | RLW-04P806 | 4.0 | | 1 & 2/3 | INT |
| | | | | RLW-07P603 | 7.6 | | 1 & 2/3 | INT |
| | | | | RLW-07P605 | (0) | | 1 & 2/3 | INT |
| | | | | RLW-001101 | 14D) | | 1 & 2/3 | INT |
| | | | | RLW-001103 | 11 | | 1 & 2/3 | INT |
| | | | | RLW-001105 | | | 1 & 2/3 | INT |
| | | | REVIEW | RLW-001403 74 | 5 | | 1 & 2/3 | 1 & 2 |
| | | | | RLW-001405 | 14 | ` | 1 & 2/3 | INT |
| | | | | 2 V • RLW-002101 | Karim (| | 1 & 2/3 | INT |
| | | | | RLW-002103 | 21 | | 1 & 2/3 | INT |
| | | | | RLW-002105 | 022 / 6 | | 1 & 2/3 | INT |
| Reactor (continued) | 18 (continued) | X, 3, D (continued) | MTE (continued) | RLW-002801 | 72 | N/A | 1 & 2/3 | INT |
| (commada) | (00111111111111111111111111111111111111 | (00//////000/ | | RLW-002803 | 28 | (continued) | 1 & 2/3 | INT |
| | | | | RLW-002805 | | | 1 & 2/3 | INT |
| | | | P | RLW-003503 | 35 | | 1 & 2/3 | INT |
| | | | | RLW-004601 | G | | 1 & 2/3 | INT |
| | | | | RLW-004603 | 46 | | 2/3 | INT |
| | | | | RLW-004605 | | | 2/3 | INT |
| | | | | RLW-005501 | 55 | | 2/3 | INT |
| | | | | RLW-005503 | 55 | | 4 | INT |
| | | | | RLW-006501 | G.F. | | 2/3 | INT |
| | | | | RLW-006503 | 65 | | 3 & 4 | INT |
| | | | | RLW-008301 | 92 | | 3 & 4 | INT |
| | | | | RLW-008303 | 83 | | 4 | INT |

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ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

ATTACHMENT PAGE | 12 OF 14

| Subcomponent Name | Type Code Sequence Position(s) | Type Code Sequence Character(s) | Manufacturer | Manufacturer Part Number | Rating (Amps/kVA) | Subcomponent Frame Size | Frame Size Application | Basis ^[1] |
|----------------------|--------------------------------------|---------------------------------------|--------------------|-----------------------------|-----------------------|----------------------------|---------------------------|----------------------|
| | | | | RLW-010401 | | | 4 & 5 | INT |
| | | | | RLW-010403 | 104 | | 4 | INT |
| | | | | RLW-010405 | | | 4 | INT |
| _ | | | | RLW-013003 | 130 | | 5 | INT |
| Reactor (continued) | 18 (continued) | X, 3, D (continued) | MTE (continued) | RLW-013005 | | N/A (continued) | 5 | INT |
| | , | , | | RLW-016001 | | , | 5 | INT |
| | | | REVIE | RLW-016003 | 160 | \ | 5 | 7, 8, 9 |
| | | | 64/ | RLW-016005 74 | 5 Ω | | 5 | SAME |
| | | | | RLW-020001 | 200 | | 5 | SAME |
| | | | | BY: MoRT&mmad I | Karim ^{1.} 1 | | 1 | SAME |
| | | | | RT1G | 1.5 | | 1 | SAME |
| | | | | DATERT09/14/2 | 022 1.9 6 | | 1 | SAME |
| | | | CALIF | RT1J | 2.7 | | 1 | SAME |
| | | | | RT1K | 4.1 | | 1 | SAME |
| | | | P | RT1L | 6.3 | | 1 | 1 & 2 |
| Overload | 20 | S&D | GE | RT1M | 8.5 | RT1 | 1 | 1 & 2 |
| | | | | RT1N | 12 | | 1 | SAME |
| | | | | RT1P | 16 | | 1 | SAME |
| | | | | RT1S | 18 | | 1 | 3 & 4 |
| | | | | RT1T | 22 | | 1 | SAME |
| | | | | RT1U | 26 | | 1 | SAME |
| | | | | RT1V | 32 | | 1 | SAME |
| | | | | RT1W | 40 | | 1 | SAME |

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

ATTACHMENT PAGE | 13 OF 14

| Subcomponent Name | Type Code Sequence Position(s) | Type Code Sequence Character(s) | Manufacturer | Manufacturer Part Number | Rating (Amps/kVA) | Subcomponent Frame Size | Frame Size Application | Basis ^[1] |
|----------------------|--------------------------------------|---------------------------------------|--|-----------------------------|----------------------|----------------------------|---------------------------|----------------------|
| | | | | RT2E | 43 | | 2/3 | INT |
| | | | | RT2G | 55 | | 2/3 | INT |
| | | | | RT2H | 65 | RT2 | 2/3 & 4 | INT |
| | | | | RT2J | 82 | K12 | 4 | INT |
| Overload (continued) | 20 (continued) | S & D (continued) | GE (continued) | RT2L | 97 | | 4 | INT |
| (cenamaca) | (00///404) | (00//////000/ | (4) | RT2M | 110 | | 4 & 5 | INT |
| | | | REL | RT3D | 120 | \ | 5 | SAME |
| | | | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | RT3E -074 | 140 | RT3 | 5 | SAME |
| | | | | RT3F | 190 | | 5 | 5, 6, 7, 8, 9 |
| | | | | BY: Murbaspimad I | Karim 3 (| | 1, 2/3, 4 & 5 | SAME |
| | | | | LPJ-6SP | 6 | | 1, 2/3, 4 & 5 | SAME |
| | | | | AT EPJ-10SP/14/2 | 022 10 6 | | 1, 2/3, 4 & 5 | SAME |
| | | | \Z\\\ | LPJ-15SP | 15 | LPJ 1-30 | 1, 2/3, 4 & 5 | SAME |
| | | | CA | LPJ-20SP | 20 | | 1, 2/3, 4 & 5 | SAME |
| | | | Op | LPJ-25SP | 25 | | 2/3, 4 & 5 | SAME |
| | | | | LPJ-30SP | 30 | | 2/3, 4 & 5 | 3 & 4 |
| Dual Motor Fusing | 21-22 | A - S | Cooper Bussman | LPJ-35SP | 35 | | 2/3, 4 & 5 | INT |
| Dual Motor I using | 21-22 | A-3 | (Eaton) | LPJ-40SP | 40 | | 2/3, 4 & 5 | INT |
| | | | | LPJ-45SP | 45 | LPJ 35-60 | 2/3, 4 & 5 | INT |
| | | | | LPJ-50SP | 50 | | 2/3, 4 & 5 | INT |
| | | | | LPJ-60SP | 60 | | 2/3, 4 & 5 | INT |
| | | | | LPJ-70SP | 70 | | 2/3, 4 & 5 | INT |
| | | | | LPJ-80SP | 80 | LPJ 70-100 | 2/3, 4 & 5 | INT |
| | | | | LPJ-90SP | 90 | Li 3 70-100 | 2/3, 4 & 5 | INT |
| | | | | LPJ-100SP | 100 | | 2/3, 4 & 5 | INT |

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ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

ATTACHMENT PAGE | 14 OF 14

| Subcomponent Name | Type Code Sequence Position(s) | Type Code Sequence Character(s) | Manufacturer | Manufacturer Part Number | Rating (Amps/kVA) | Subcomponent Frame Size | Frame Size Application | Basis ^[1] |
|----------------------|--------------------------------------|---------------------------------------|-------------------|-----------------------------|----------------------|----------------------------|---------------------------|----------------------|
| | | | | LPJ-110SP | 110 | | 4 & 5 | INT |
| | | | | LPJ-125SP | 125 | | 4 & 5 | INT |
| | | | | LPJ-150SP | 150 | LPJ 110-200 | 4 & 5 | INT |
| Dual Motor Fusing | 21-22 | A – S | Cooper Bussman | LPJ-175SP | 175 | | 5 | INT |
| (continued) | (continued) | (continued) | (Eaton) | LPJ-200SP | 200 | | 5 | INT |
| | | | (continued) | LPJ-225SP | 225 | | 5 | 5, 6, 7, 8, 9 |
| | | | | LPJ-250SP | 250 | LPJ 225-400 | 5 | SAME |
| | | | JAK T | LPJ-300SP 074 | 5 300 | | 5 | SAME |
| | | | | 9T58K0086 | 0.2 KVA | 8200 | 1 & 2/3 | 3 & 4 |
| | | | | 3 Y: \9т58к0046mad | (ario.2 kva | 8175 | 1 & 2/3 | 1 & 2 |
| + , | N 1/A | N1/A | | 9T58K0049G38 | 0.375 KVA | 8250 | 2/3, 4 & 5 | INT |
| Transformer | N/A | N/A | GE | AT9T58K282614/2 |)220.2 KVA | 8175 | 1 & 2/3 | INT |
| | | | GE | 9T58K2828 | 0.3 KVA | 8200 | 2/3, 4 & 5 | INT |
| | | | | 9T58K0089G38 | 0.375 KVA | 10225 | 2/3, 4 & 5 | 5, 6, 7, 8, 9 |

1. BASIS:

Notes

- #: Indicates that a test specimen (UUT1901-#) matching these characteristics was tested as part of this testing program.
- SAME: Indicates component is physically, mechanically, and electrically the same as another test specimen with differences limited to model number, color, and/or software.
- INT (Interpolate or Extrapolate): indicates a configuration not specifically tested, and by which seismic qualification is established through evaluation of testing of similar units in the product line.
- 2. Certification in this table is limited to devices identified when installed as part of a complete assembly of the Enclosed Drives defined in Table 1.

ATTACHMENT 2: TEST SPECIMEN SUMMARY

ATTACHMENT PAGE | 1 OF 4

| UUT1901-1 | Frame 1: 10H | P Drive / 460V | w/ Options (Rigid | d Mount) | | |
|-----------------|---|--|-------------------------------------|--------------------|---------------------------------------|---------------------|
| Manufacturer: | Danfoss Drives | | | V. | | |
| Identification: | Material No.: 178U | / | GXXXXXXK0XXXXE | 2 | Porks | |
| Description: | | VLT drive (A3 Drive on steel NEMA 3R er | , | | • | • |
| | 3 Contactor Bypass Dual Motor / Line R BACNet (Top Entry) | | Bypass | | UUT-1 | |
| Mounting: | Rigid Wall mounted | l usina | | | Attentions, MONEY AND A | |
| ounung. | (2) - 3/8" dia. SAE | J429 Grade 5 bolts w/ J429 Grade 5 bolts w/ | | | | |
| canary. | (2) – 3/8" dia. SAE (2) – 3/8" dia. SAE (| J429 Grade 5 bolts w/ J429 Grade 5 bolts w/ ı. | | Lowes | et Resonant Frequence | cy (Hz.) |
| Width | (2) – 3/8" dia. SAE (2) – 3/8" dia. SAE (1) – 3/8" dia. SAE (1) – 3/8" at bottom | J429 Grade 5 bolts w/ J429 Grade 5 bolts w/ ı. | | Lowes Side-Axis | t Resonant Frequence | cy (Hz.) Vert-Axis |
| | (2) – 3/8" dia. SAE (2) – 3/8" dia. SAE (3) – 3/8" dia. SAE (1.5"x1/8") at bottom | J429 Grade 5 bolts w/ J429 Grade 5 bolts w/ i. | plate washers (1" x | Side-Axis | · · · · · · · · · · · · · · · · · · · | Vert-Axis |
| Width 29 | (2) – 3/8" dia. SAE (2) – 3/8" dia. SAE (1.5"x1/8") at bottom Dimensions (in. | J429 Grade 5 bolts w/ J429 Grade 5 bolts w/ I. Height 30.34 | / plate washers (1" x Weight (lb.) | Side-Axis | Front-Axis | Vert-Axis |
| Width 29 | (2) – 3/8" dia. SAE (2) – 3/8" dia. SAE (2) – 3/8" dia. SAE (3) – 3/8" at bottom Dimensions (in. Depth 14.18 | J429 Grade 5 bolts w/ J429 Grade 5 bolts w/ I. Height 30.34 | / plate washers (1" x Weight (lb.) | Side-Axis | Front-Axis | Vert-Axis |

| UUT1901-2 | Frame 1: 10HP | DITVE / 400 V W | , 20213110/41/43 | ibic Woult) | | |
|-----------------|---|--|--|--------------------|---------------------|----------------------|
| Manufacturer: | Danfoss Drives | DAIL | , 09/14/2021 | | | 1 |
| Identification: | T/C: S102010T4E3R: Material No.: 178U60 Serial No.: 643504 | | XXXXXK0XXXE | | 22 | |
| Description: | | /LT drive (A3 Drive Francisco) In steel NEMA 3R encl | | | 10,0 | |
| | 3 Contactor Bypass / Dual Motor / Line Rea BACNet (Top Entry) (| | pass | | UUT-2 | |
| Mounting: | Flexible Wall mounte | d using | | | | |
| | (2) – 3/8" dia. SAE J4 (2) – 3/8" dia. SAE J4 1.5"x1/8") at bottom. Wall test fixture mour | 429 Grade 5 bolts w/ s 429 Grade 5 bolts w/ p hted on Mason Industr – 5/8" dia. Grade 8 Bo | late washers (1" x ies SSLFH-1000 * | | | |
| cu.iung. | (2) – 3/8" dia. SAE J4 (2) – 3/8" dia. SAE J4 1.5"x1/8") at bottom. Wall test fixture mour spring isolator w/ (4) each corner of test fra | 429 Grade 5 bolts w/ s 429 Grade 5 bolts w/ p hted on Mason Industr – 5/8" dia. Grade 8 Bo | late washers (1" x ies SSLFH-1000 * | Lower | st Resonant Frequen | acy (Hz.) |
| Width | (2) – 3/8" dia. SAE J4 (2) – 3/8" dia. SAE J4 1.5"x1/8") at bottom. Wall test fixture mour spring isolator w/ (4) each corner of test fra (4 isolators total) | 429 Grade 5 bolts w/ s 429 Grade 5 bolts w/ p hted on Mason Industr – 5/8" dia. Grade 8 Bo | late washers (1" x ies SSLFH-1000 * | Lower Side-Axis | st Resonant Frequen | ncy (Hz.) Vert-Axis |
| | (2) – 3/8" dia. SAE J4 (2) – 3/8" dia. SAE J4 1.5"x1/8") at bottom. Wall test fixture mour spring isolator w/ (4) each corner of test fra (4 isolators total) Dimensions (in.) | 429 Grade 5 bolts w/ s 429 Grade 5 bolts w/ p atted on Mason Industr – 5/8" dia. Grade 8 Bo ame | late washers (1" x ies SSLFH-1000 * lts. One isolator at | Side-Axis | · | Vert-Axis |
| Width 29 | (2) – 3/8" dia. SAE J4 (2) – 3/8" dia. SAE J4 1.5"x1/8") at bottom. Wall test fixture mour spring isolator w/ (4) each corner of test fra (4 isolators total) Dimensions (in.) | 429 Grade 5 bolts w/ s 429 Grade 5 bolts w/ p 429 Grade 5 bolts w/ p 410 Arted on Mason Industr 410 Arted 6 Bo 411 Arted 6 Bo 412 Arted 6 Bo 413 Arted 6 Bo 413 Arted 6 Bo 414 Arted 6 Bo 415 Arted 6 Bo | late washers (1" x ies SSLFH-1000 * lts. One isolator at Weight (lb.) | Side-Axis | Front-Axis | Vert-Axis |
| Width 29 | (2) – 3/8" dia. SAE J4 (2) – 3/8" dia. SAE J4 1.5"x1/8") at bottom. Wall test fixture mour spring isolator w/ (4) each corner of test fra (4 isolators total) Dimensions (in.) Depth 14.18 | 429 Grade 5 bolts w/ s 429 Grade 5 bolts w/ p 429 Grade 5 bolts w/ p 410 Arted on Mason Industr 410 Arted 6 Bo 411 Arted 6 Bo 412 Arted 6 Bo 413 Arted 6 Bo 413 Arted 6 Bo 414 Arted 6 Bo 415 Arted 6 Bo | late washers (1" x ies SSLFH-1000 * lts. One isolator at Weight (lb.) | Side-Axis | Front-Axis | Vert-Axis |

ATTACHMENT 2: TEST SPECIMEN SUMMARY

ATTACHMENT PAGE | 2 OF 4

| UUT1901-3 | Frame 1: 5HP | P Drive / 208V w | // Options (Rigid | Mount) | | |
|------------------|---|--|-------------------------------------|------------------------------------|----------------------|---------------------|
| Manufacturer: | Danfoss Drives | | | to a company of the control of the | | fire-Market |
| Identification: | Material No.: 178U | | GXXXXXXXGKXXXXX | | 6-2-5-1 50 ± 6 | +2 |
| Description: | Painted, 14ga. carb 3 Contactor Bypass Electro-Mechanical Contactor Motor Se Lon Works & MCB1 | Bypass Package elect 101 Option Card A & E | nclosúre by Hoffman | | UUT-3 | |
| Mounting: | | J429 Grade 5 bolts w/ J429 Grade 5 bolts w/ | | | | |
| Mounting: | (2) – 3/8" dia. SAE (2) – 3/8" dia. SAE (| J429 Grade 5 bolts w/ J429 Grade 5 bolts w/ ı. | | | t Resonant Frequen | cy (Hz.) |
| Mounting: Width | (2) – 3/8" dia. SAE (2) – 3/8" dia. SAE (1) – 3/8" dia. SAE (1) – 3/8" at bottom | J429 Grade 5 bolts w/ J429 Grade 5 bolts w/ ı. | | | t Resonant Frequence | cy (Hz.) Vert-Axis |
| | (2) – 3/8" dia. SAE (2) – 3/8" dia. SAE (1.5"x1/8") at bottom | J429 Grade 5 bolts w/ J429 Grade 5 bolts w/ n. | / plate washers (1" x | Lowes Side-Axis | • | Vert-Axis |
| Width 29 | (2) – 3/8" dia. SAE (2) – 3/8" dia. SAE (1.5"x1/8") at bottom Dimensions (in. | J429 Grade 5 bolts w/ J429 Grade 5 bolts w/ n. Height | / plate washers (1" x Weight (lb.) | Lowes Side-Axis | Front-Axis | Vert-Axis |
| Width 29 | (2) – 3/8" dia. SAE (2) – 3/8" dia. SAE (1.5"x1/8") at bottom Dimensions (in. Depth 14.18 | J429 Grade 5 bolts w/ J429 Grade 5 bolts w/ n. Height | / plate washers (1" x Weight (lb.) | Lowes Side-Axis | Front-Axis | Vert-Axis |

| UUT1901-4 | Frame 1: 5HP | Frame 1: 5HP Drive / 208V w/ Options (Flexible Mount) | | | | | | | | | |
|---------------------|--|--|--|------------------------|--------------------------|------------------------|--|--|--|--|--|
| Manufacturer: | Danfoss Drives | DAIL | . 09/14/202 | | | | | | | | |
| Identification: | T/C: S102005T1E3R: Material No.: 178U60 Serial No.: 643404 | 032 | SXXXXXXGKXXXXX | | P.L. 2 | | | | | | |
| Description: | 5HP/208V FC-102 VI Painted, 14ga. carbo | | | | | | | | | | |
| | 3 Contactor Bypass / Electro-Mechanical B Lon Works & MCB10 | ypass Package / Co | | | UUT-4 | | | | | | |
| Mounting: | Flexible Wall mounte (2) – 3/8" dia. SAE J4 (2) – 3/8" dia. SAE J4 1.5"x1/8") at bottom. Wall test fixture mour spring isolator w/ (4) each corner of test fra (4 isolators total) | 29 Grade 5 bolts w/ 29 Grade 5 bolts w/ nted on Mason Indus 5/8" dia. Grade 8 E | plate washers (1 [°] x stries SSLFH-1000 * | | | | | | | | |
| | Dimensions (in.) | | | Lowes | st Resonant Frequenc | cy (Hz.) | | | | | |
| Width | Depth | Height | Weight (lb.) | Side-Axis | Front-Axis | Vert-Axis | | | | | |
| 29 | 14.18 | 30.34 | 127.5 | N/A | A (Governed by test fixt | ure) | | | | | |
| ICC-ES AC156 SI | hake Table Test Parame | eters | | | | Code: 2019 CB0 | | | | | |
| S _{DS} (G) | z/h | I _P | A _{FLX-H} (G) | A _{RIG-H} (G) | A _{FLX-V} (G) | A _{RIG-V} (G) | | | | | |
| | 1 | 1.5 | 4.16 | 3.12 | 1.74 | 0.7 | | | | | |

ATTACHMENT 2: TEST SPECIMEN SUMMARY

ATTACHMENT PAGE | 3 OF 4

| UUT1901-5 | Frame 5: 125I | HP Drive / 460V | / Config 1 (Rigid | l Mount) | | |
|-----------------|--|---|----------------------------------|--------------------|---------------------------------------|-----------|
| Manufacturer: | Danfoss Drives | | | | | |
| Identification: | Material No.: 178U | R3ĆMN23XSXXZ2XG) 5517 04Y059 | XXXXXXK0XXXX0 | | · | 2-ric 1 |
| Description: | Painted, 14ga. carb Main Disconnect / S Electro-Mechanical | 2 VLT drive (C2 Drive on steel NEMA 3R end Single Motor Bypass Package / Line), MCB 109 & MCB 10 | closure by Hoffman. e Reactor | | UUT-S | |
| Mounting: | | J429 Grade 5 bolts w/ s J429 Grade 5 bolts w/ j | | | | |
| | Dimensions (in. | | | Lowes | st Resonant Frequenc | cy (Hz.) |
| | • | | | | | |
| Width | Depth | Height | Weight (lb.) | Side-Axis | Front-Axis | Vert-Axis |
| Width 46.18 | Depth 17.83 | Height 62.37 | Weight (lb.) 526 |)))))) | Front-Axis A (Governed by test fixed) | |
| 46.18 | · · | 62.37 | |)))))) | | |
| 46.18 | 17.83 | 62.37 | |)))))) | | ture) |

| UUT1901-6 | Frame 5: 125H | P Drive / 460V | Config 1 (Flexib | le Mount) | | | |
|---------------------|---|---|--|---------------------------|--------------------------------|------------------------|--|
| Manufacturer: | Danfoss Drives | | | HIT SOL | | | |
| Identification: | T/C: S102125T4E3R: Material No.: 178U5 Serial No.: N/A | | XXXXXXK0XXXX0 | | | | |
| Description: | | VLT drive (C2 Drive F n steel NEMA 3R encl | | | uits. | | |
| | | ngle Motor ypass Package / Line MCB 109 & MCB 107 | | | 4 | | |
| Mounting: | (3) – 3/8" dia. SAE J4 1.5"x1/8") at bottom. Wall test fixture mour | .29 Grade 5 bolts w/ s l29 Grade 5 bolts w/ p nted on Mason Industr – 5/8" dia. Grade 8 Bo | olate washers (1" x ries SSLFH-1000 * | | | | |
| | Dimensions (in.) | | | Lowes | st Resonant Frequenc | cy (Hz.) | |
| Width | Depth | Height | Weight (lb.) | Side-Axis | Front-Axis | Vert-Axis | |
| 46.18 | 17.83 | 1 0 0 7 | | | N/A (Governed by test fixture) | | |
| ICC-ES AC156 Sha | ake Table Test Parame | eters | | | | Code: 2019 CBC | |
| S _{DS} (G) | z/h | I _P | A _{FLX-H} (G) | A _{RIG-H} (G) | A _{FLX-V} (G) | A _{RIG-V} (G) | |
| 2.6 | 1 | 1.5 | 4.16 | 3.12 | 1.74 | 0.7 | |
| Unit satisfied AC15 | 6 requirements for struc | tural integrity and mar | nufacturer requirements | s for functionality after | er AC156 test. | | |



ATTACHMENT 2: TEST SPECIMEN SUMMARY

ATTACHMENT PAGE | 4 OF 4

| UUT1901-7 | Frame 5: 125 | HP Drive / 460V | Config 2 (Rigid | Mount) | | | |
|---------------------|--|---|-----------------------------|---------------------------------|-------------------------|------------------------|--|
| Manufacturer: | Danfoss Drives | | | | | | |
| Identification: | T/C: S102125T4E3 Material No.: N/A Serial No.: N/A | R3CCD23XCXXZ2XG | XXXXXXK0XXXX0 | c | • | | |
| Description: | | 02 VLT drive (C2 Drive oon steel NEMA 3R end | | | UUT-7 | • | |
| | Line Reactor / Conf | ectro-Mechanical Bypa actor Motor Select 07 Option cards A, B & | · · | | | | |
| Mounting: | | J429 Grade 5 bolts w/ J429 Grade 5 bolts w/ | | | | | |
| | Dimensions (in |) | | Lowest Resonant Frequency (Hz.) | | | |
| Width | Depth | Height | Weight (lb.) | Side-Axis | Front-Axis | Vert-Axis | |
| 46.18 | 17.83 | 32.37 | 539.5 | N// | A (Governed by test fix | xture) | |
| ICC-ES AC156 Sh | ake Table Test Parar | neters | JSP-0745 | | | Code: 2019 CBC | |
| S _{DS} (G) | z/h | I _P | A _{FLX-H} (G) | A _{RIG-H} (G) | A _{FLX-V} (G) | A _{RIG-V} (G) | |
| 2.6 | 1 | 1.5/ | ohamr 1 16d Kari | m 3.12 | 1.74 | 0.7 | |
| Unit satisfied AC15 | 66 requirements for str | uctural integrity and ma | anufacturer requirements | for functionality after | er AC156 test. | | |

| UUT1901-9 | Frame 5: 12 <mark>5H</mark> | P Drive / 460V | Config 2 (Flexib | le Mount) | | | | |
|---------------------|--|---|--|---------------------------------|------------------------|------------------------|--|--|
| Manufacturer: | Danfoss Drives | | | | | | | |
| Identification: | T/C: S102125T4E3R3 Material No.: N/A Serial No.: N/A | BCCD23XCXXZ2XGX | XXXXXXK0XXXX0 | | | | | |
| Description: | 125HP/460V FC-102 Painted, 14ga. carbo | | | | | | | |
| | Circuit Breaker / Elec Line Reactor / Contac MCB 109 & MCB 107 | ctor Motor Select | | | 85 | | | |
| Mounting: | Flexible Wall mounter (3) – 3/8" dia. SAE J4 (3) – 3/8" dia. SAE J4 1.5"x1/8") at bottom. Wall test fixture mour spring isolator w/ (4) each corner of test fra (4 isolators total) | 29 Grade 5 bolts w/ s 29 Grade 5 bolts w/ p ated on Mason Industr 5/8" dia. Grade 8 Bo | olate washers (1" x ries SSLFH-1000 * | | | | | |
| | Dimensions (in.) | | | Lowest Resonant Frequency (Hz.) | | | | |
| Width | Depth | Height | Weight (lb.) | Side-Axis | Front-Axis | Vert-Axis | | |
| 46.18 | 17.83 | 32.37 | 539.5 | N/A (Governed by test fixture) | | | | |
| CC-ES AC156 SI | nake Table Test Parame | eters | | | | Code: 2019 CB | | |
| S _{DS} (G) | z/h | l _P | A _{FLX-H} (G) | A _{RIG-H} (G) | A _{FLX-V} (G) | A _{RIG-V} (G) | | |
| | | 1.5 | 4.16 | 3.12 | 1.74 | 0.7 | | |