| APPLICATION FOR OSHPD SPECIAL SEISMIC CERTIFICATION PREAPPROVAL (OSP)  | APPLICATION #: OSP - 0363  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|
| OSHPD Special Seismic Certification Preapproval (OSP)  |  |  |  |  |  |  |  |  |  |  |
| Type: ☐ New ☒ Renewal  |  |  |  |  |  |  |  |  |  |  |
| Manufacturer Information   |  |  |  |  |  |  |  |  |  |  |
| Manufacturer: DANFOSS DRIVES   |  |  |  |  |  |  |  |  |  |  |
| Manufacturer's Technical Representative: Mahamed Tabrez  |  |  |  |  |  |  |  |  |  |  |
| Mailing Address: 8800 W. Bradley Road, Milwaukee, WI. 53224  |  |  |  |  |  |  |  |  |  |  |
| Telephone: (414) 355-8800 Email: ON FIL  | E  |  |  |  |  |  |  |  |  |  |
| Product Information  | MA   |  |  |  |  |  |  |  |  |  |
| Product Name: PHD Panels OSHPD   | T <sub>1</sub>   |  |  |  |  |  |  |  |  |  |
| Product Type: Variable Frequency Drive panels OSP-0363   | N. Carlotte  |  |  |  |  |  |  |  |  |  |
| Product Model Number: See Attachment 1, Table 1.  (List all unique product identification numbers and/or part numbers) hammad Alia | ari was a sana a sa |  |  |  |  |  |  |  |  |  |
| VVMAVN   | housing Da <mark>nfos</mark> s VLT drives with additional tuned  |  |  |  |  |  |  |  |  |  |
| filter elements to mitigate harmonics.  DATE: 10/23/2020   |  |  |  |  |  |  |  |  |  |  |
| Mounting Description: Rigid base mounted & rigid wall mounted. See   | attachments.   |  |  |  |  |  |  |  |  |  |
| Applicant Information  | ODE  |  |  |  |  |  |  |  |  |  |
| Applicant Information  Applicant Company Name: EASE  |  |  |  |  |  |  |  |  |  |  |
| Contact Person:Jonathan Roberson, S.E.   |  |  |  |  |  |  |  |  |  |  |
| Mailing Address: 5877 Pine Ave, Suite 210, Chino Hills, CA. 91709  |  |  |  |  |  |  |  |  |  |  |
| Telephone: (909) 606-7622 Email: <u>j.robers</u>   | son@easeco.com   |  |  |  |  |  |  |  |  |  |
| I hereby agree to reimburse the Office of Statewide Health Faccordance with the California Administrative Code, 2016.              | Planning and Development review fees in  |  |  |  |  |  |  |  |  |  |
| Signature of Applicant:  | Date: October 1, 2019  |  |  |  |  |  |  |  |  |  |
| Title: Principal Structural Engineer Company Name: <b>EASE</b>   |  |  |  |  |  |  |  |  |  |  |

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| California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)   |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|
| Company Name: <b>EASE</b>  |  |  |  |  |  |  |  |  |  |
| Name: Jonathan Roberson, S.E. California License Number: S4197   |  |  |  |  |  |  |  |  |  |
| Mailing Address: _ 5877 Pine Ave, Suite 210, Chino Hills, CA. 91709  |  |  |  |  |  |  |  |  |  |
| Telephone: (909) 606-7622 Email: j.roberson@easeco.com   |  |  |  |  |  |  |  |  |  |
| Supports and Attachments Preapproval   |  |  |  |  |  |  |  |  |  |
| <ul> <li>Supports and attachments are preapproved under OPM-         (Separate application for OSHPD Preapproval of Manufacturer's Certification (OPM) of Supports and attachments is required)</li> <li>Supports and attachments are not preapproved</li> </ul> |  |  |  |  |  |  |  |  |  |
| Certification Method   |  |  |  |  |  |  |  |  |  |
| <ul> <li>☐ Testing in accordance with:</li> <li>☐ Other (Please Specify):</li> </ul> OSP-0363  |  |  |  |  |  |  |  |  |  |
| BY: Mohammad Aliaari   |  |  |  |  |  |  |  |  |  |
| Testing Laboratory DATE: 10/23/2020  |  |  |  |  |  |  |  |  |  |
| Company Name: Environmental Testing Laboratory, Inc.   |  |  |  |  |  |  |  |  |  |
| Contact Name: Brady Richard  |  |  |  |  |  |  |  |  |  |
| Mailing Address: 11034 Indian Trail, Dallas, TX. 75229-3513  |  |  |  |  |  |  |  |  |  |
| Telephone: (972) 247-9657 Email: brady@etldallas.com   |  |  |  |  |  |  |  |  |  |



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OSP-0363



# OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

| Seismic Parameters   |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Design in accordance with ASCE 7-10 Chapter 13: ⊠ Yes ☐ No                                       |  |  |  |  |  |  |  |  |  |  |  |  |
| Design Basis of Equipment or Components (F <sub>p</sub> /W <sub>p</sub> ) = 1.88g                |  |  |  |  |  |  |  |  |  |  |  |  |
| S <sub>DS</sub> (Design spectral response acceleration at short period, g) = <b>2.60</b>         |  |  |  |  |  |  |  |  |  |  |  |  |
| a <sub>p</sub> (In-structure equipment or component amplification factor) = <u>1</u>             |  |  |  |  |  |  |  |  |  |  |  |  |
| R <sub>p</sub> (Equipment or component response modification factor) =                           |  |  |  |  |  |  |  |  |  |  |  |  |
| $\Omega_0$ (System overstrength factor) =2   |  |  |  |  |  |  |  |  |  |  |  |  |
| I <sub>P</sub> (Importance factor) = <b>1.5</b>  |  |  |  |  |  |  |  |  |  |  |  |  |
| z/h (Height factor ratio) = 1  |  |  |  |  |  |  |  |  |  |  |  |  |
| Equipment or Component Natural Frequencies (Hz) = See Attachment 2                               |  |  |  |  |  |  |  |  |  |  |  |  |
| Overall dimensions and weight (or range thereof) = See Attachment 1                              |  |  |  |  |  |  |  |  |  |  |  |  |
| Equipment or Components @ grade designed in accordance with ASCE 7-10 Chapter 15:   Yes   No     |  |  |  |  |  |  |  |  |  |  |  |  |
| Design Basis of Equipment or Components (V/W) =  |  |  |  |  |  |  |  |  |  |  |  |  |
| S <sub>DS</sub> (Design spectral response acceleration at short period, g) =                     |  |  |  |  |  |  |  |  |  |  |  |  |
| S <sub>D1</sub> (Design spectral response acceleration at 1 second period, g) =                  |  |  |  |  |  |  |  |  |  |  |  |  |
| R (Response modificatio <mark>n co</mark> efficient ) =  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ω <sub>0</sub> (System overstrength factor) = <u>By: Mohammad Aliaari</u>                        |  |  |  |  |  |  |  |  |  |  |  |  |
| C <sub>d</sub> (Deflection amplificati <mark>o</mark> n factor) =                                |  |  |  |  |  |  |  |  |  |  |  |  |
| I <sub>P</sub> (Importance factor) = 1.5 DATE: 10/23/2020  |  |  |  |  |  |  |  |  |  |  |  |  |
| Height to Center of Gravity above base =   |  |  |  |  |  |  |  |  |  |  |  |  |
| Equipment or Component Natural Frequencies (Hz) =  |  |  |  |  |  |  |  |  |  |  |  |  |
| Overall dimensions and weight (or range thereof) =   |  |  |  |  |  |  |  |  |  |  |  |  |
| Tank(s) designed in accordance with ASME BPVC, 2015: ☐ Yes ☒ No                                  |  |  |  |  |  |  |  |  |  |  |  |  |
| List of Attachments Supporting Special Seismic Certification                                     |  |  |  |  |  |  |  |  |  |  |  |  |
| ☐ Test Report(s) ☐ Drawings ☐ Calculations ☐ Manufacturer's Catalog                              |  |  |  |  |  |  |  |  |  |  |  |  |
| Other(s) (Please Specify): Attachments 1 & 2   |  |  |  |  |  |  |  |  |  |  |  |  |
| OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2025                     |  |  |  |  |  |  |  |  |  |  |  |  |
| Signature: M. Aliani Date: October 23, 2020  |  |  |  |  |  |  |  |  |  |  |  |  |
| Print Name: Mohammad Aliaari Title: Senior Structural Engineer                                   |  |  |  |  |  |  |  |  |  |  |  |  |
| Special Seismic Certification Valid Up to : $S_{DS}(g) = \underline{2.60}$ $z/h = \underline{1}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| Condition of Approval (if applicable):   |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |

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#### **ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS**

ATTACHMENT PAGE | 1 OF 3

#### **TABLE 1: DANFOSS PHD PANELS**

| Manufacturer | DANFOSS                           | DRIVES   |   |   |   |   |  |  |                    |
|--------------|-----------------------------------|--|---|---|---|---|--|--|--------------------|
| Product Line | PHD PANE                          | LS   |   |   |   |   |  |  |                    |
| Type Code    | PHD#02                            | [2]  |   |   |   |   |  |  |                    |
| PHD PANEL    | DRIVE                             |  |   | APPROX  | . DIMENSIO  | NS (IN.) [3]  | MAX. WT.   |  |                    |
| SIZE         | HP                                | VAC  | BYPASS  | W   | D   | Н   | (LB.)  | MOUNT  | BASIS [1]          |
| Donal 1      | 25                                | 480  | 3C  | 28.3  | 22.5  | 44.3  | 322  | Wall   | UUT-1              |
| Panel 1      | 1.5 – 25                          | 480 / 600  | N0, 3C  | 28.3  | 22.5  | 44.3  | 322  | Wall   | INT                |
|              | 1.5 – 25                          | 480 / 600  | 3C, SS  | 38.3  | 23.5  | 55.3  | 390  | Wall   | INT                |
| Donal O      | 25                                | 480  | SS  | 34.3  | 20.9  | 55.3  | 369  | Wall   | UUT-2              |
| Panel 2      | 30 – 75                           | 480 / 600  | N0, 3C  | 38.3  | 23.5  | 55.3  | 598  | Wall   | INT                |
|              | 75                                | 480  | 3C  | 38.3  | 23.5  | 55.3  | 598  | Wall   | UUT-3              |
|              | 75                                | 480  | SS  | 42.0  | 23.0  | 75.1  | 862  | Floor  | UUT-4              |
| Panel 3      | 30 – 75                           | 480 / 600  | SS OR   | CODE  |   |   | 862  | Floor  | INT                |
|              | 100 – 125                         | 480 / 600  | N0  | 43.8  | 25.5  | 75.1  | 957  | Floor  | INT                |
| Panel 4      | 100 – 125                         | 480 / 600  | 3C, SS  | 51.8  | 25.5  | 87.1  | 1256   | Floor  | INT                |
| Panel 5      | 150 – 250<br>150 – 200            | 480<br>600   | No O  | 45.8  | 38.4  | 79.1  | 1647   | Floor  | INT                |
| Panel 6      | 150 – 250<br>150 – 200            | 480  | 3C, SS O  | SP <sub>64.8</sub> 36   | 3 38.4  | 87.1  | 1980   | Floor  | INT                |
| Panel 7      | 300 – 450<br>250 – 400            | 480  | BY.º Moh  | am <sup>54</sup> ·6ad   | Ali <b>at</b> ati   | 93.1  | 2361   | Floor  | INT                |
| Panel 8      | 300 – 450<br>250 – 400            | 480<br>600   | NO<br>DATE: 1   | 51.0  | 33.0  | 97.1  | 2351   | Floor  | INT                |
| Panel 9      | 300 – 450<br>250 – 400            | 480<br>600   | 3C, SS  | 91.6  | 44.4  | 93.1  | 3169   | Floor  | INT                |
| Panel 10     | 500 – 600<br>450 – 650            | 480<br>600   | N0  | 81.6  | 44.7  | 97.1  | 3412   | Floor  | INT                |
| Panel 11     | 500 – 600<br>450 – 650            | 480<br>600   | 3C, SS  | 118.8   | G 44.7  | 97.1  | 4225   | Floor  | INT                |
|              | 600                               | 480  | 3C  | 118.8   | 44.7  | 97.1  | 4225   | Floor  | UUT-5              |
| Enclosure    | 11 ga. (floor                     | mounted) / 14 a  | ga. (wall mounted   | l) carbon steel   | NEMA/UL r   | ated 1 / 12 / 3   | BR.  | •  | •                  |
| Mounting     | RIGID BASI supporting s           | E (FLOOR) MC tructure and no l   | DUNTED: a free-<br>ateral support ab<br>omponent is fully   | standing, bas   | se mounted  | condition wit   | h the compone  |  | tached to a        |
| Notes        | • IN wa 2. Type ( the pa 3. Dimen | JT#: Indicates th<br>T (Interpolate or<br>is established th<br>Code defines the<br>nel. For a complisions listed for u | at a test specime<br>Extrapolate): indirough evaluation<br>configuration of<br>ete listing of the<br>intested panels a<br>iller. The differen | icates a mode<br>of testing of o<br>the PhD Pane<br>Type Code ch<br>re for NEMA 3 | I that was not<br>ther, similar r<br>Il. Each alpha<br>aracters reco<br>BR enclosures | t specifically to<br>models in the<br>anumeric char<br>gnized and act<br>s. In most cas | ested, and by ware product line. Facter defines a cocepted by this ses the dimension | configurable<br>report, see F<br>ons of NEMA | option in igure 1. |



### **ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS**

ATTACHMENT PAGE | 2 OF 3

#### FIGURE1: CERTIFIED DRIVE TYPE CODES

|   | Р | Н | D |   | 0 | 2 |   |   |   |    |    |    |    |    |    | /  |    |    |    | 0  | Х  | X  |    |    |    |    |    |    |    | X  | X  |
|---|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| / | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | တ | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |

| Character | Parameter               | Allowed Value       | Description                                |
|-----------|-------------------------|---------------------|--|
| 1-3       | Prefix                  | PHD                 | Panel product line                         |
| 4.0       | VIII Drive conice       | 102                 | VLT® HVAC Drive (FC102)                    |
| 4-6       | VLT Drive series        | 202                 | VLT® AQUA Drive (FC202)                    |
|           |                         | 1H5                 | 1.5 HP                                     |
|           |                         | 002                 | 2 HP                                       |
|           |                         | 003                 | 3 HP                                       |
|           |                         | 005                 | 5 HP                                       |
|           |                         | 7H5                 | 7.5 HP                                     |
|           |                         | 010                 | 10 HP                                      |
|           |                         | 015                 | 15 HP                                      |
|           |                         | 020                 | 20 HP                                      |
|           |                         | 025                 | 25 HP                                      |
|           |                         | 030                 | 30 HP                                      |
|           |                         | 040                 | 40 HP                                      |
|           |                         | 050                 | 50 HP CO                                   |
|           |                         | 060                 | 60 HP                                      |
|           |                         | 075                 | 75 HP                                      |
| 7-9       | Drive Power Size        | 100                 | 100 HP                                     |
| 7-9       | Dilve Fower Size        | 125                 | 125 HP                                     |
|           |                         | 150                 | 150 HP                                     |
|           |                         |                     |  |
|           |                         | 200<br>250          | 200 HP                                     |
|           |                         |                     | 250 HP                                     |
|           |                         | 300                 | 300 HP                                     |
|           |                         | 350                 | 350 HP                                     |
|           |                         | 400/                | 400 HPnad Aliaari                          |
|           |                         | 450                 | 450 HP                                     |
|           |                         | 500                 | 500 HP                                     |
|           |                         | 550                 | 550 HP                                     |
|           |                         | 600 <sup>A</sup> E: | 600 HP3/ZUZU                               |
|           |                         | 650                 | 650 HP                                     |
| 10-11     | AC Line                 | T4                  | 480 VAC                                    |
| 10 11     | Voltage                 | T6                  | 600 VAC                                    |
|           |                         | E01                 | Nema 1                                     |
| 12-14     | Enclosure               | E12                 | Nema 12                                    |
|           |                         | E3R                 | Nema 3R                                    |
|           |                         | NO                  | No Bypass                                  |
| 15-16     | RFI filter              | 3C                  | 3 Contactor Bypass                         |
|           |                         | SS                  | SS Bypass                                  |
| 17        | Switches                | M                   | Main Fused Disconnect                      |
| 17        | Switches                | С                   | Main Circuit Breaker                       |
| 18        | Duidt output filter     | X                   | No Filter                                  |
| 18        | Dv/dt output filter     | D                   | Dv/Dt Output Filter                        |
| 19        | Motor Efficiency        | X                   | NEC Table 430 Motor                        |
| 19        | Motor Efficiency        | E                   | EISA Efficiency Motor (Premium Efficiency) |
| 20        | OSHPD                   | 0                   | OSHPD Seismic Pre-Approval                 |
| 21-22     | Reserved for Future Use | XX                  | None (Reserved for Future Use)             |
|           |                         | X                   | No RFI Filter                              |
| 23        | RFI Filter              | 1                   | Class A1/B Filter                          |
| -         |                         | 2                   | Class A2 Filter (Std)                      |
| - ·       | a ::                    | X                   | No Coating                                 |
| 24        | Coating                 | C                   | Coating                                    |
|           |                         | X                   | No Option                                  |
|           |                         | В                   | Brake Chopper                              |
| 25        | Brake Chopper           | T                   | Safe Stop                                  |
|           |                         | Ü                   | BC & Safe Stop                             |
|           |                         | X                   | No A Option                                |
|           |                         | 0                   | Profibus DPV1(101)                         |
| 26        | A Options               | 4                   | DeviceNet (104)                            |
|           | -                       | 4<br>G              |  |
|           |                         | ı                   | LonWorks (108)                             |

Table continues next page



#### ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

ATTACHMENT PAGE | 3 OF 3

#### FIGURE1: CERTIFIED DRIVE TYPE CODES (continued)

| Character | Parameter               | Allowed Value | Description                    |
|-----------|-------------------------|---------------|--------------------------------|
|           |                         | / J           | BACNet (109)                   |
| 26        | A Ontions               | L             | Profinet SRT (120)             |
| 26        | A Options               | N             | Ethernet IP (121)              |
|           |                         | Q             | Modbus                         |
|           |                         | X             | No B Option                    |
|           |                         | 0             | Analog I/O (109)               |
|           |                         | 2             | Thermistor Card (112)          |
| 27        | B Options               | 4             | Sensor Input (114)             |
|           | •                       | K             | General Purpose I/O (101)      |
|           |                         | Р             | Relay Card (105)               |
|           |                         | Y             | Extended Cascade Control       |
| 20        | Continue                | X             | No C Option                    |
| 28        | C Options               | 5             | Cascade Control                |
| 20        | D Ontions               | X             | No Option                      |
| 29        | D Options               | 0             | 24VDC Backup                   |
| 30-31     | Reserved for Future Use | XX            | None (Reserved for Future Use) |



ATTACHMENT 2: TEST SPECIMEN SUMMARY ATTACHMENT PAGE | 1 OF 2

#### TABLE 2: SHAKE TABLE TEST PARAMETERS

|   | <b>BUILDING CODE</b> | TEST CRITERIA | <b>S</b> <sub>DS</sub> | z/h | IР  | A <sub>FLX-H</sub> | ARIG-H | A <sub>FLX-V</sub> | A <sub>RIG-V</sub> |  |
|---|----------------------|---------------|------------------------|-----|-----|--------------------|--------|--------------------|--------------------|--|
| / | CBC 2019             | ICC-ES AC156  | 2.6                    | 1.0 | 1.5 | 4.16               | 3.12   | 1.74               | 0.70               |  |

All test specimens below maintained structural integrity and functionality at the conclusion of all testing.

**UUT-1:** 25HP 3C BYPASS

Description: **Standard Components** Option Card C(Cascade Control)

> 25 HP AQUA Drive 24V DC Backup

480 V 3-Phase **Additional Components** NEMA 3R Enclosure XT Circuit Breaker

3 Contactor Bypass dv/dt Filter

Main Fused Disconnect Additional 1.5HP HVAC (for add'l option

Class A2 Input RFI Filter cards)

Class A1 Input RFI Filter **Brake Chopper** Option Card A (Profinet SRT) Comm. Card A (LonWorks) Option Card B (Analog I/O (109)) Option Card B (Relay Card)

Mounting: Rigid Wall mounted using (6) – 3/8" dia. Grade 8 bolts

Dimensions: W (in.) D (in.) H (in.)

28.3 22.5 44.3

Weight: 322 lbs.

Resonance X-Axis Y-Axis **Z-Axis** 

Frequencies:

PHD202025T4E3R3CMXNX2CBL050 Typecode

ammad Aliaari

UUT-2: 25HP SS BYPASS

Class A2 Input RFI Filter Description: Standard Components

> 25 HP HVAC Drive **Brake Chopper** 480 V 3-Phase Option Card A (Modbus TCP) NEMA 1 Enclosure Option Card B (Gen Purpose I/O)

Soft Start Bypass 24V DC Backup

Main Fused Disconnect

Rigid Wall mounted using (8) - 3/8" dia. Grade 8 bolts Mounting:

Dimensions: W (in.) D (in.) H (in.)

> 20.9 34.3 55.3

Weight: 369 lbs.

Resonance X-Axis Y-Axis Z-Axis

Frequencies:

**Typecode** PHD102025T4E01SSMXNX2CBQKX0 P/N: 177X0881

**UUT-3**: 75HP 3C BYPASS

Option Card A (Profibus DPV1) **Standard Components** Description:

75 HP AQUA Drive Option Card B Relay Card) 480 V 3-Phase Option Card C (Cascade Control)

NEMA 3R Enclosure 24V DC Backup

**Additional Components** 3 Contactor Bypass

Main Circuit Breaker dv/dt Filter

Class A1 Input RFI Filter XT Circuit Breaker

**Brake Chopper** 

Mounting: Rigid Wall mounted using (8) – 3/8" dia. Grade 8 bolts

Dimensions: W (in.) D (in.) H (in.)

38.3 23.5 55.3

Weight: 598 lbs.

Resonance X-Axis Y-Axis Z-Axis

Frequencies:

**Typecode** PHD202075T4E3R3CCXNX1CB0P50 P/N: 177X0195









ATTACHMENT PAGE | 2 OF 2

### ATTACHMENT 2: TEST SPECIMEN SUMMARY

UUT-4: 75HP SS BYPASS

Standard Components Description:

75 HP AQUA Drive 480 V 3-Phase NEMA 12 Enclosure Soft Starter Bypass

Main Circuit Breaker dv/dt Filter

Class A1 Input RFI Filter Brake Chopper

Option Card A (Profibus DPV1) Option Card B (Gen Purpose I/O) Option Card C (Cascade Control)

24V DC Backup

Rigid base mount w/ (6) -5/8" dia. bolts + (2)  $-\frac{1}{2}$ " dia. Bolts Mounting:

Dimensions: W (in.) D (in.) H (in.) 42 23 75.1

> Weight: 862 lbs.

Resonance X-Axis Y-Axis Z-Axis Frequencies: 29.9 16.0 11.9

PHD202075T4E12SSCDNX1CBQP50 **Typecode** P/N: 177X0200

#### **Additional Components** XT Circuit Breaker

75HP Contactor for 3C Bypass

75HP Overload for 3C Bypass Additional 3HP AQUA (for add'l card options)

Class A2 Input RFI Filter

Option Card A (Device net) Option Card B (Sensor Input)

**Additional Components** 

BY Additional 1.5 Agua Drive

Option Card A (Ethernet)

Option Card B (Relay)

(for additional option cards) Class A1 Input RFI Filter



#### **UUT-5**: **600HP SS BYPASS**

Standard Components Description:

600 HP HVAC Drive 480 V 3-Phase NEMA 3R Enclosure Softstart Bypass Circuit Breaker dv/dt Output Filter **Brake Chopper** 24V DC Backup

Option Card A (BACNet) Option Card B (Gen. Purpose

Class A2 Input RFI Filter

Rigid base mount w/ (15) - 5/8" dia. bolts Mounting:

W (in.) Dimensions: D (in.) H (in.) 118.8 44.7 97.1

> Weight: 4225 lbs.

Resonance X-Axis Y-Axis **7-Axis** Frequencies: 7.5 11.3

**Typecode** PHD102600T4E3RSSCDNX2CBJKX0 P/N: 177X0880

