



# AQUAFORCE e-HV™

SHIP-LOOSE STEP-DOWN / STEP-UP TRANSFORMERS  
TECHNICAL BROCHURE



| Part Number | Ship-Loose Transformer                                   | kVA    | Case Style | Width | Depth | Height | Approx Weight | Mtg Type (Note 1) |
|-------------|----------------------------------------------------------|--------|------------|-------|-------|--------|---------------|-------------------|
| 80-002-100  | 208V/3 PH Primary 480V/ 3 PH Secondary<br>HAPOSG3A0015BK | 15 kVA | DH1        | 21.5  | 20.1  | 22.0   | 210           | F or W/C          |
| 80-002-101  | 208V/3 PH Primary 480V/ 3 PH Secondary<br>HAPOSG3A0030BK | 30 kVA | DH2        | 25.8  | 23.8  | 28.8   | 310           | F or W/C          |
| 80-002-102  | 208V/3 PH Primary 480V/ 3 PH Secondary<br>HAPOSG3A0045BK | 45 kVA | DH2        | 25.8  | 23.8  | 28.8   | 380           | F or W/C          |
| 80-002-103  | 208V/3 PH Primary 480V/ 3 PH Secondary<br>HAPOSG3A0075BK | 75 kVA | DH3        | 28.3  | 27.0  | 36.0   | 510           | F (Opt W/C)       |
| 80-002-104  | 600V/3 PH Primary 480V/ 3 PH Secondary<br>HAPOSG3A0015PK | 15 kVA | DH1        | 21.5  | 20.1  | 22.0   | 210           | F or W/C          |
| 80-002-105  | 600V/3 PH Primary 480V/ 3 PH Secondary<br>HAPOSG3A0030PK | 30 kVA | DH2        | 25.8  | 23.8  | 28.8   | 310           | F or W/C          |
| 80-002-106  | 600V/3 PH Primary 480V/ 3 PH Secondary<br>HAPOSG3A0045PK | 45 kVA | DH2        | 25.8  | 23.8  | 28.8   | 380           | F or W/C          |
| 80-002-107  | 600V/3 PH Primary 480V/ 3 PH Secondary<br>HAPOSG3A0075PK | 75 kVA | DH3        | 28.3  | 27.0  | 36.0   | 510           | F (Opt W/C)       |
| 80-002-108  | XFMR,WALL CEILING MOUNTING KIT<br>HAPODW                 |        |            |       |       |        |               |                   |

Note 1: F = Floor  
Wall/Ceiling Mt

W/C = Built-in  
Opt W/C = Opt. P/N 80-002-108 Wall Ceiling  
Mounting Kit

## Specification

### A. Listings and Certifications:

- UL Listed. File E112313
- CSA Certified. File LR3902

### B. Electrical

- Primary 208V or 600V. Secondary 480V
- Aluminum wound, 3 Ph delta wye
- 15 - 75 kVA
- Frequency: 60 Hz (optional 50/50 Hz available)
- Insulation System: 150 degree C. rise
- Enclosure Type: Heavy duty ventilated NEMA 3R
- Enclosure Finish: ANSI 61 Grey, UL 50
- Standard wiring tabs (refer to wiring diagrams for detail)
- Termination: Front accessible terminals. Connectors suitable for aluminum and copper are provided for easy cable installation.
- Conduit Entry: Side knock-out standard on all units
- Impedance: Typically 3.5% to 6.5%

### C. Mounting

- Floor, wall, or ceiling mounting up through 45kVA
- Standard floor mounting on 75kVA with optional wall/ceiling kit available

### D. Sound Level

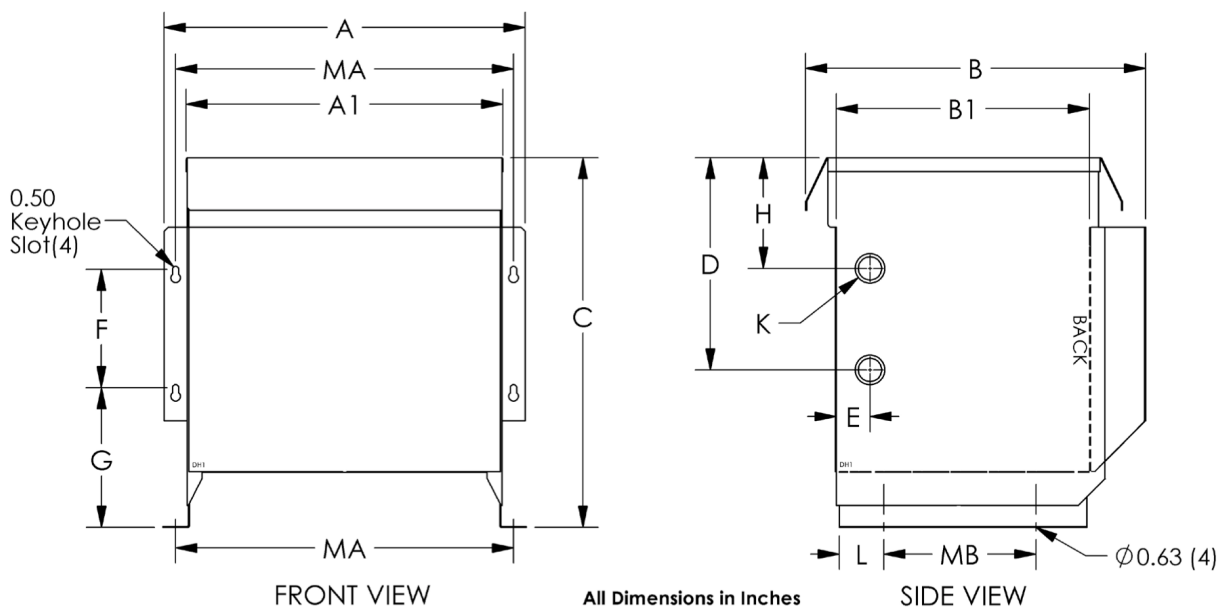
- Meets MEMA ST-20 standards

| e-HV Booster Assembly |                       |                                  |                          |                            |                                      |
|-----------------------|-----------------------|----------------------------------|--------------------------|----------------------------|--------------------------------------|
| Sr #                  | Finish Good Part #    | Description                      | 208V Step-Up Transformer | 575V Step-Down Transformer | Optional W/C Mount Kit (75 kVA only) |
| 1                     | FG-HV2D2-3SV7GD4F60   | e-HV,DUPLEX,HV2D2-3SV7GD4F60     | 80-002-100               | 80-002-104                 | N/A                                  |
| 2                     | FG-HV3D2-3SV7GD4F60   | e-HV,TRIPLEX,HV3D2-3SV7GD4F60    | 80-002-100               | 80-002-104                 | N/A                                  |
| 3                     | FG-HV4D2-3SV7GD4F60   | e-HV,QUADPLEX,HV4D2-3SV7GD4F60   | 80-002-100               | 80-002-104                 | N/A                                  |
| 4                     | FG-HV2D2-3SV9GE4F60   | e-HV,DUPLEX,HV2D2-3SV9GE4F60     | 80-002-100               | 80-002-104                 | N/A                                  |
| 5                     | FG-HV3D2-3SV9GE4F60   | e-HV,TRIPLEX,HV3D2-3SV9GE4F60    | 80-002-100               | 80-002-104                 | N/A                                  |
| 6                     | FG-HV4D2-3SV9GE4F60   | e-HV,QUADPLEX,HV4D2-3SV9GE4F60   | 80-002-100               | 80-002-104                 | N/A                                  |
| 7                     | FG-HV2D2-3SV12GF4F60  | e-HV,DUPLEX,HV2D2-3SV12GF4F60    | 80-002-100               | 80-002-104                 | N/A                                  |
| 8                     | FG-HV3D2-3SV12GF4F60  | e-HV,TRIPLEX,HV3D2-3SV12GF4F60   | 80-002-100               | 80-002-104                 | N/A                                  |
| 9                     | FG-HV4D2-3SV12GF4F60  | e-HV,QUADPLEX,HV4D2-3SV12GF4F60  | 80-002-101               | 80-002-105                 | N/A                                  |
| 10                    | FG-HV2D2-3SV14GF4F60  | e-HV,DUPLEX,HV2D2-3SV14GF4F60    | 80-002-100               | 80-002-104                 | N/A                                  |
| 11                    | FG-HV3D2-3SV14GF4F60  | e-HV,TRIPLEX,HV3D2-3SV14GF4F60   | 80-002-100               | 80-002-104                 | N/A                                  |
| 12                    | FG-HV4D2-3SV14GF4F60  | e-HV,QUADPLEX,HV4D2-3SV14GF4F60  | 80-002-101               | 80-002-105                 | N/A                                  |
| 13                    | FG-HV2D2-3SV16GG4C60  | e-HV,DUPLEX,HV2D2-3SV16GG4C60    | 80-002-100               | 80-002-104                 | N/A                                  |
| 14                    | FG-HV3D2-3SV16GG4C60  | e-HV,TRIPLEX,HV3D2-3SV16GG4C60   | 80-002-101               | 80-002-105                 | N/A                                  |
| 15                    | FG-HV4D2-3SV16GG4C60  | e-HV,QUADPLEX,HV4D2-3SV16GG4C60  | 80-002-102               | 80-002-106                 | N/A                                  |
| 16                    | FG-HV2D2-3SV18GG4C60  | e-HV,DUPLEX,HV2D2-3SV18GG4C60    | 80-002-100               | 80-002-104                 | N/A                                  |
| 17                    | FG-HV3D2-3SV18GG4C60  | e-HV,TRIPLEX,HV3D2-3SV18GG4C60   | 80-002-101               | 80-002-105                 | N/A                                  |
| 18                    | FG-HV4D2-3SV18GG4C60  | e-HV,QUADPLEX,HV4D2-3SV18GG4C60  | 80-002-102               | 80-002-106                 | N/A                                  |
| 19                    | FG-HV2D2-5SV4GD4F60   | e-HV,DUPLEX,HV2D2-5SV4GD4F60     | 80-002-100               | 80-002-104                 | N/A                                  |
| 20                    | FG-HV3D2-5SV4GD4F60   | e-HV,TRIPLEX,HV3D2-5SV4GD4F60    | 80-002-100               | 80-002-104                 | N/A                                  |
| 21                    | FG-HV3D3-5SV4GD4F60   | e-HV,TRIPLEX,HV3D3-5SV4GD4F60    | 80-002-100               | 80-002-104                 | N/A                                  |
| 22                    | FG-HV4D3-5SV4GD4F60   | e-HV,QUADPLEX,HV4D3-5SV4GD4F60   | 80-002-100               | 80-002-104                 | N/A                                  |
| 23                    | FG-HV2D2-5SV6GE4F60   | e-HV,DUPLEX,HV2D2-5SV6GE4F60     | 80-002-100               | 80-002-104                 | N/A                                  |
| 24                    | FG-HV3D2-5SV6GE4F60   | e-HV,TRIPLEX,HV3D2-5SV6GE4F60    | 80-002-100               | 80-002-104                 | N/A                                  |
| 25                    | FG-HV3D3-5SV6GE4F60   | e-HV,TRIPLEX,HV3D3-5SV6GE4F60    | 80-002-100               | 80-002-104                 | N/A                                  |
| 26                    | FG-HV4D3-5SV6GE4F60   | e-HV,QUADPLEX,HV4D3-5SV6GE4F60   | 80-002-100               | 80-002-104                 | N/A                                  |
| 27                    | FG-HV2D2-5SV9GF4F60   | e-HV,DUPLEX,HV2D2-5SV9GF4F60     | 80-002-100               | 80-002-104                 | N/A                                  |
| 28                    | FG-HV3D2-5SV9GF4F60   | e-HV,TRIPLEX,HV3D2-5SV9GF4F60    | 80-002-100               | 80-002-104                 | N/A                                  |
| 29                    | FG-HV3D3-5SV9GF4F60   | e-HV,TRIPLEX,HV3D3-5SV9GF4F60    | 80-002-100               | 80-002-104                 | N/A                                  |
| 30                    | FG-HV4D3-5SV9GF4F60   | e-HV,QUADPLEX,HV4D3-5SV9GF4F60   | 80-002-101               | 80-002-105                 | N/A                                  |
| 31                    | FG-HV2D2-5SV12GG4C60  | e-HV,DUPLEX,HV2D2-5SV12GG4C60    | 80-002-100               | 80-002-104                 | N/A                                  |
| 32                    | FG-HV3D2-5SV12GG4C60  | e-HV,TRIPLEX,HV3D2-5SV12GG4C60   | 80-002-101               | 80-002-105                 | N/A                                  |
| 33                    | FG-HV3D3-5SV12GG4C60  | e-HV,TRIPLEX,HV3D3-5SV12GG4C60   | 80-002-101               | 80-002-105                 | N/A                                  |
| 34                    | FG-HV4D3-5SV12GG4C60  | e-HV,QUADPLEX,HV4D3-5SV12GG4C60  | 80-002-102               | 80-002-106                 | N/A                                  |
| 35                    | FG-HV2D2-5SV15GG4C60  | e-HV,DUPLEX,HV2D2-5SV15GG4C60    | 80-002-100               | 80-002-104                 | N/A                                  |
| 36                    | FG-HV3D2-5SV15GG4C60  | e-HV,TRIPLEX,HV3D2-5SV15GG4C60   | 80-002-101               | 80-002-105                 | N/A                                  |
| 37                    | FG-HV3D3-5SV15GG4C60  | e-HV,TRIPLEX,HV3D3-5SV15GG4C60   | 80-002-101               | 80-002-105                 | N/A                                  |
| 38                    | FG-HV4D3-5SV15GG4C60  | e-HV,QUADPLEX,HV4D3-5SV15GG4C60  | 80-002-102               | 80-002-106                 | N/A                                  |
| 39                    | FG-HV2D2-5SV18GH4F60  | e-HV,DUPLEX,HV2D2-5SV18GH4F60    | 80-002-101               | 80-002-104                 | N/A                                  |
| 40                    | FG-HV3D2-5SV18GH4F60  | e-HV,TRIPLEX,HV3D2-5SV18GH4F60   | 80-002-101               | 80-002-104                 | N/A                                  |
| 41                    | FG-HV3D3-5SV18GH4F60  | e-HV,TRIPLEX,HV3D3-5SV18GH4F60   | 80-002-101               | 80-002-104                 | N/A                                  |
| 42                    | FG-HV4D3-5SV18GH4F60  | e-HV,QUADPLEX,HV4D3-5SV18GH4F60  | 80-002-102               | 80-002-106                 | N/A                                  |
| 43                    | FG-HV2D2-10SV2GE4F60  | e-HV,DUPLEX,HV2D2-10SV2GE4F60    | 80-002-100               | 80-002-104                 | N/A                                  |
| 44                    | FG-HV2D3-10SV2GE4F60  | e-HV,DUPLEX,HV2D3-10SV2GE4F60    | 80-002-100               | 80-002-104                 | N/A                                  |
| 45                    | FG-HV3D3-10SV2GE4F60  | e-HV,TRIPLEX,HV3D3-10SV2GE4F60   | 80-002-100               | 80-002-104                 | N/A                                  |
| 46                    | FG-HV4D3-10SV2GE4F60  | e-HV,QUADPLEX,HV4D3-10SV2GE4F60  | 80-002-100               | 80-002-104                 | N/A                                  |
| 47                    | FG-HV4D4-10SV2GE4F60  | e-HV,QUADPLEX,HV4D4-10SV2GE4F60  | 80-002-100               | 80-002-104                 | N/A                                  |
| 48                    | FG-HV2D2-10SV3GF4F60  | e-HV,DUPLEX,HV2D2-10SV3GF4F60    | 80-002-100               | 80-002-104                 | N/A                                  |
| 49                    | FG-HV2D3-10SV3GF4F60  | e-HV,DUPLEX,HV2D3-10SV3GF4F60    | 80-002-100               | 80-002-104                 | N/A                                  |
| 50                    | FG-HV3D3-10SV3GF4F60  | e-HV,TRIPLEX,HV3D3-10SV3GF4F60   | 80-002-100               | 80-002-104                 | N/A                                  |
| 51                    | FG-HV4D3-10SV3GF4F60  | e-HV,QUADPLEX,HV4D3-10SV3GF4F60  | 80-002-101               | 80-002-105                 | N/A                                  |
| 52                    | FG-HV4D4-10SV3GF4F60  | e-HV,QUADPLEX,HV4D4-10SV3GF4F60  | 80-002-101               | 80-002-105                 | N/A                                  |
| 53                    | FG-HV2D2-10SV6GG4C60  | e-HV,DUPLEX,HV2D2-10SV6GG4C60    | 80-002-100               | 80-002-104                 | N/A                                  |
| 54                    | FG-HV2D3-10SV6GG4C60  | e-HV,DUPLEX,HV2D3-10SV6GG4C60    | 80-002-100               | 80-002-104                 | N/A                                  |
| 55                    | FG-HV3D3-10SV6GG4C60  | e-HV,TRIPLEX,HV3D3-10SV6GG4C60   | 80-002-101               | 80-002-105                 | N/A                                  |
| 56                    | FG-HV4D3-10SV6GG4C60  | e-HV,QUADPLEX,HV4D3-10SV6GG4C60  | 80-002-102               | 80-002-106                 | N/A                                  |
| 57                    | FG-HV4D4-10SV6GG4C60  | e-HV,QUADPLEX,HV4D4-10SV6GG4C60  | 80-002-102               | 80-002-106                 | N/A                                  |
| 58                    | FG-HV2D2-10SV8GH4F60  | e-HV,DUPLEX,HV2D2-10SV8GH4F60    | 80-002-101               | 80-002-105                 | N/A                                  |
| 59                    | FG-HV2D3-10SV8GH4F60  | e-HV,DUPLEX,HV2D3-10SV8GH4F60    | 80-002-101               | 80-002-105                 | N/A                                  |
| 60                    | FG-HV3D3-10SV8GH4F60  | e-HV,TRIPLEX,HV3D3-10SV8GH4F60   | 80-002-101               | 80-002-105                 | N/A                                  |
| 61                    | FG-HV4D3-10SV8GH4F60  | e-HV,QUADPLEX,HV4D3-10SV8GH4F60  | 80-002-102               | 80-002-106                 | N/A                                  |
| 62                    | FG-HV4D4-10SV8GH4F60  | e-HV,QUADPLEX,HV4D4-10SV8GH4F60  | 80-002-102               | 80-002-106                 | N/A                                  |
| 63                    | FG-HV2D2-10SV11GJ4F60 | e-HV,DUPLEX,HV2D2-10SV11GJ4F60   | 80-002-101               | 80-002-105                 | N/A                                  |
| 64                    | FG-HV2D3-10SV11GJ4F60 | e-HV,DUPLEX,HV2D3-10SV11GJ4F60   | 80-002-101               | 80-002-105                 | N/A                                  |
| 65                    | FG-HV3D3-10SV11GJ4F60 | e-HV,TRIPLEX,HV3D3-10SV11GJ4F60  | 80-002-102               | 80-002-106                 | N/A                                  |
| 66                    | FG-HV4D3-10SV11GJ4F60 | e-HV,QUADPLEX,HV4D3-10SV11GJ4F60 | 80-002-103               | 80-002-107                 | 80-002-108                           |
| 67                    | FG-HV4D4-10SV11GJ4F60 | e-HV,QUADPLEX,HV4D4-10SV11GJ4F60 | 80-002-103               | 80-002-107                 | 80-002-108                           |
| 68                    | FG-HV2D3-15SV1GE4F60  | e-HV,DUPLEX,HV2D3-15SV1GE4F60    | 80-002-100               | 80-002-104                 | N/A                                  |
| 69                    | FG-HV2D4-15SV1GE4F60  | e-HV,DUPLEX,HV2D4-15SV1GE4F60    | 80-002-100               | 80-002-104                 | N/A                                  |
| 70                    | FG-HV3D4-15SV1GE4F60  | e-HV,TRIPLEX,HV3D4-15SV1GE4F60   | 80-002-100               | 80-002-104                 | N/A                                  |
| 71                    | FG-HV4D4-15SV1GE4F60  | e-HV,QUADPLEX,HV4D4-15SV1GE4F60  | 80-002-100               | 80-002-104                 | N/A                                  |

**e-HV Booster Assembly**

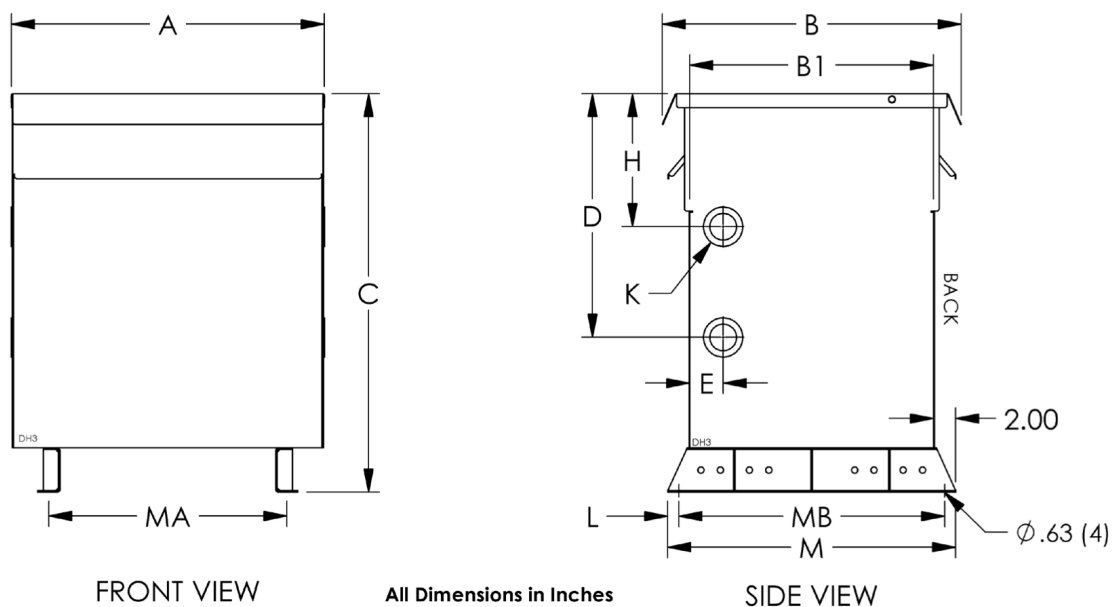
| Sr # | Finish Good Part #    | Description                      | 208V Step-Up Transformer | 575V Step-Down Transformer | Optional W/C Mount Kit (75 kVA only) |
|------|-----------------------|----------------------------------|--------------------------|----------------------------|--------------------------------------|
| 72   | FG-HV4D6-15SV1GE4F60  | e-HV,QUADPLEX,HV4D6-15SV1GE4F60  | 80-002-100               | 80-002-104                 | N/A                                  |
| 73   | FG-HV2D3-15SV2GG4C60  | e-HV,DUPLEX,HV2D3-15SV2GG4C60    | 80-002-100               | 80-002-104                 | N/A                                  |
| 74   | FG-HV2D4-15SV2GG4C60  | e-HV,DUPLEX,HV2D4-15SV2GG4C60    | 80-002-100               | 80-002-104                 | N/A                                  |
| 75   | FG-HV3D4-15SV2GG4C60  | e-HV,TRIPLEX,HV3D4-15SV2GG4C60   | 80-002-101               | 80-002-105                 | N/A                                  |
| 76   | FG-HV4D4-15SV2GG4C60  | e-HV,QUADPLEX,HV4D4-15SV2GG4C60  | 80-002-102               | 80-002-106                 | N/A                                  |
| 77   | FG-HV4D6-15SV2GG4C60  | e-HV,QUADPLEX,HV4D6-15SV2GG4C60  | 80-002-102               | 80-002-106                 | N/A                                  |
| 78   | FG-HV2D3-15SV3GH4F60  | e-HV,DUPLEX,HV2D3-15SV3GH4F60    | 80-002-101               | 80-002-105                 | N/A                                  |
| 79   | FG-HV2D4-15SV3GH4F60  | e-HV,DUPLEX,HV2D4-15SV3GH4F60    | 80-002-101               | 80-002-105                 | N/A                                  |
| 80   | FG-HV3D4-15SV3GH4F60  | e-HV,TRIPLEX,HV3D4-15SV3GH4F60   | 80-002-101               | 80-002-105                 | N/A                                  |
| 81   | FG-HV4D4-15SV3GH4F60  | e-HV,QUADPLEX,HV4D4-15SV3GH4F60  | 80-002-102               | 80-002-106                 | N/A                                  |
| 82   | FG-HV4D6-15SV3GH4F60  | e-HV,QUADPLEX,HV4D6-15SV3GH4F60  | 80-002-102               | 80-002-106                 | N/A                                  |
| 83   | FG-HV2D3-15SV4GH4F60  | e-HV,DUPLEX,HV2D3-15SV4GH4F60    | 80-002-101               | 80-002-105                 | N/A                                  |
| 84   | FG-HV2D4-15SV4GH4F60  | e-HV,DUPLEX,HV2D4-15SV4GH4F60    | 80-002-101               | 80-002-105                 | N/A                                  |
| 85   | FG-HV3D4-15SV4GH4F60  | e-HV,TRIPLEX,HV3D4-15SV4GH4F60   | 80-002-101               | 80-002-105                 | N/A                                  |
| 86   | FG-HV4D4-15SV4GH4F60  | e-HV,QUADPLEX,HV4D4-15SV4GH4F60  | 80-002-102               | 80-002-106                 | N/A                                  |
| 87   | FG-HV4D6-15SV4GH4F60  | e-HV,QUADPLEX,HV4D6-15SV4GH4F60  | 80-002-102               | 80-002-106                 | N/A                                  |
| 88   | FG-HV2D3-15SV5GJ4F60  | e-HV,DUPLEX,HV2D3-15SV5GJ4F60    | 80-002-101               | 80-002-105                 | N/A                                  |
| 89   | FG-HV2D4-15SV5GJ4F60  | e-HV,DUPLEX,HV2D4-15SV5GJ4F60    | 80-002-101               | 80-002-105                 | N/A                                  |
| 90   | FG-HV3D4-15SV5GJ4F60  | e-HV,TRIPLEX,HV3D4-15SV5GJ4F60   | 80-002-102               | 80-002-106                 | N/A                                  |
| 91   | FG-HV4D4-15SV5GJ4F60  | e-HV,QUADPLEX,HV4D4-15SV5GJ4F60  | 80-002-103               | 80-002-107                 | 80-002-108                           |
| 92   | FG-HV4D6-15SV5GJ4F60  | e-HV,QUADPLEX,HV4D6-15SV5GJ4F60  | 80-002-103               | 80-002-107                 | 80-002-108                           |
| 93   | FG-HV2D3-15SV6GK4F60  | e-HV,DUPLEX,HV2D3-15SV6GK4F60    | 80-002-102               | 80-002-106                 | N/A                                  |
| 94   | FG-HV2D4-15SV6GK4F60  | e-HV,DUPLEX,HV2D4-15SV6GK4F60    | 80-002-102               | 80-002-106                 | N/A                                  |
| 95   | FG-HV3D4-15SV6GK4F60  | e-HV,TRIPLEX,HV3D4-15SV6GK4F60   | 80-002-103               | 80-002-107                 | 80-002-108                           |
| 96   | FG-HV4D4-15SV6GK4F60  | e-HV,QUADPLEX,HV4D4-15SV6GK4F60  | 80-002-103               | 80-002-107                 | 80-002-108                           |
| 97   | FG-HV4D6-15SV6GK4F60  | e-HV,QUADPLEX,HV4D6-15SV6GK4F60  | 80-002-103               | 80-002-107                 | 80-002-108                           |
| 98   | FG-HV2D3-15SV7GK4F60  | e-HV,DUPLEX,HV2D3-15SV7GK4F60    | 80-002-102               | 80-002-106                 | N/A                                  |
| 99   | FG-HV2D4-15SV7GK4F60  | e-HV,DUPLEX,HV2D4-15SV7GK4F60    | 80-002-102               | 80-002-106                 | N/A                                  |
| 100  | FG-HV3D4-15SV7GK4F60  | e-HV,TRIPLEX,HV3D4-15SV7GK4F60   | 80-002-103               | 80-002-107                 | 80-002-108                           |
| 101  | FG-HV4D4-15SV7GK4F60  | e-HV,QUADPLEX,HV4D4-15SV7GK4F60  | 80-002-103               | 80-002-107                 | 80-002-108                           |
| 102  | FG-HV4D6-15SV7GK4F60  | e-HV,QUADPLEX,HV4D6-15SV7GK4F60  | 80-002-103               | 80-002-107                 | 80-002-108                           |
| 103  | FG-HV2D3-15SV8GK4F60  | e-HV,DUPLEX,HV2D3-15SV8GK4F60    | 80-002-102               | 80-002-106                 | N/A                                  |
| 104  | FG-HV2D4-15SV8GK4F60  | e-HV,DUPLEX,HV2D4-15SV8GK4F60    | 80-002-102               | 80-002-106                 | N/A                                  |
| 105  | FG-HV3D4-15SV8GK4F60  | e-HV,TRIPLEX,HV3D4-15SV8GK4F60   | 80-002-103               | 80-002-107                 | 80-002-108                           |
| 106  | FG-HV4D4-15SV8GK4F60  | e-HV,QUADPLEX,HV4D4-15SV8GK4F60  | 80-002-103               | 80-002-107                 | 80-002-108                           |
| 107  | FG-HV4D6-15SV8GK4F60  | e-HV,QUADPLEX,HV4D6-15SV8GK4F60  | 80-002-103               | 80-002-107                 | 80-002-108                           |
| 108  | FG-HV2D3-33SV11GG4C60 | e-HV,DUPLEX,HV2D3-33SV11GG4C60   | 80-002-100               | 80-002-104                 | N/A                                  |
| 109  | FG-HV2D4-33SV11GG4C60 | e-HV,DUPLEX,HV2D4-33SV11GG4C60   | 80-002-100               | 80-002-104                 | N/A                                  |
| 110  | FG-HV3D4-33SV11GG4C60 | e-HV,TRIPLEX,HV3D4-33SV11GG4C60  | 80-002-101               | 80-002-105                 | N/A                                  |
| 111  | FG-HV3D6-33SV11GG4C60 | e-HV,TRIPLEX,HV3D6-33SV11GG4C60  | 80-002-101               | 80-002-105                 | N/A                                  |
| 112  | FG-HV4D6-33SV11GG4C60 | e-HV,QUADPLEX,HV4D6-33SV11GG4C60 | 80-002-102               | 80-002-106                 | N/A                                  |
| 113  | FG-HV2D3-33SV10GH4F60 | e-HV,DUPLEX,HV2D3-33SV10GH4F60   | 80-002-101               | 80-002-105                 | N/A                                  |
| 114  | FG-HV2D4-33SV10GH4F60 | e-HV,DUPLEX,HV2D4-33SV10GH4F60   | 80-002-101               | 80-002-105                 | N/A                                  |
| 115  | FG-HV3D4-33SV10GH4F60 | e-HV,TRIPLEX,HV3D4-33SV10GH4F60  | 80-002-101               | 80-002-105                 | N/A                                  |
| 116  | FG-HV3D6-33SV10GH4F60 | e-HV,TRIPLEX,HV3D6-33SV10GH4F60  | 80-002-101               | 80-002-105                 | N/A                                  |
| 117  | FG-HV4D6-33SV10GH4F60 | e-HV,QUADPLEX,HV4D6-33SV10GH4F60 | 80-002-102               | 80-002-106                 | N/A                                  |
| 118  | FG-HV2D3-33SV22GH4F60 | e-HV,DUPLEX,HV2D3-33SV22GH4F60   | 80-002-101               | 80-002-105                 | N/A                                  |
| 119  | FG-HV2D4-33SV22GH4F60 | e-HV,DUPLEX,HV2D4-33SV22GH4F60   | 80-002-101               | 80-002-105                 | N/A                                  |
| 120  | FG-HV3D4-33SV22GH4F60 | e-HV,TRIPLEX,HV3D4-33SV22GH4F60  | 80-002-101               | 80-002-105                 | N/A                                  |
| 121  | FG-HV3D6-33SV22GH4F60 | e-HV,TRIPLEX,HV3D6-33SV22GH4F60  | 80-002-101               | 80-002-105                 | N/A                                  |
| 122  | FG-HV4D6-33SV22GH4F60 | e-HV,QUADPLEX,HV4D6-33SV22GH4F60 | 80-002-102               | 80-002-106                 | N/A                                  |
| 123  | FG-HV2D3-33SV21GJ4F60 | e-HV,DUPLEX,HV2D3-33SV21GJ4F60   | 80-002-101               | 80-002-105                 | N/A                                  |
| 124  | FG-HV2D4-33SV21GJ4F60 | e-HV,DUPLEX,HV2D4-33SV21GJ4F60   | 80-002-101               | 80-002-105                 | N/A                                  |
| 125  | FG-HV3D4-33SV21GJ4F60 | e-HV,TRIPLEX,HV3D4-33SV21GJ4F60  | 80-002-102               | 80-002-106                 | N/A                                  |
| 126  | FG-HV3D6-33SV21GJ4F60 | e-HV,TRIPLEX,HV3D6-33SV21GJ4F60  | 80-002-102               | 80-002-106                 | N/A                                  |
| 127  | FG-HV4D6-33SV21GJ4F60 | e-HV,QUADPLEX,HV4D6-33SV21GJ4F60 | 80-002-103               | 80-002-107                 | 80-002-108                           |
| 128  | FG-HV2D3-33SV20GK4F60 | e-HV,DUPLEX,HV2D3-33SV20GK4F60   | 80-002-102               | 80-002-106                 | N/A                                  |
| 129  | FG-HV2D4-33SV20GK4F60 | e-HV,DUPLEX,HV2D4-33SV20GK4F60   | 80-002-102               | 80-002-106                 | N/A                                  |
| 130  | FG-HV3D4-33SV20GK4F60 | e-HV,TRIPLEX,HV3D4-33SV20GK4F60  | 80-002-103               | 80-002-107                 | 80-002-108                           |
| 131  | FG-HV3D6-33SV20GK4F60 | e-HV,TRIPLEX,HV3D6-33SV20GK4F60  | 80-002-103               | 80-002-107                 | 80-002-108                           |
| 132  | FG-HV4D6-33SV20GK4F60 | e-HV,QUADPLEX,HV4D6-33SV20GK4F60 | 80-002-103               | 80-002-107                 | 80-002-108                           |
| 133  | FG-HV2D3-33SV32GK4F60 | e-HV,DUPLEX,HV2D3-33SV32GK4F60   | 80-002-102               | 80-002-106                 | N/A                                  |
| 134  | FG-HV2D4-33SV32GK4F60 | e-HV,DUPLEX,HV2D4-33SV32GK4F60   | 80-002-102               | 80-002-106                 | N/A                                  |
| 135  | FG-HV3D4-33SV32GK4F60 | e-HV,TRIPLEX,HV3D4-33SV32GK4F60  | 80-002-103               | 80-002-107                 | 80-002-108                           |
| 136  | FG-HV3D6-33SV32GK4F60 | e-HV,TRIPLEX,HV3D6-33SV32GK4F60  | 80-002-103               | 80-002-107                 | 80-002-108                           |
| 137  | FG-HV4D6-33SV32GK4F60 | e-HV,QUADPLEX,HV4D6-33SV32GK4F60 | 80-002-103               | 80-002-107                 | 80-002-108                           |
| 138  | FG-HV2D3-33SV31GK4F60 | e-HV,DUPLEX,HV2D3-33SV31GK4F60   | 80-002-102               | 80-002-106                 | N/A                                  |
| 139  | FG-HV2D4-33SV31GK4F60 | e-HV,DUPLEX,HV2D4-33SV31GK4F60   | 80-002-102               | 80-002-106                 | N/A                                  |
| 140  | FG-HV3D4-33SV31GK4F60 | e-HV,TRIPLEX,HV3D4-33SV31GK4F60  | 80-002-103               | 80-002-107                 | 80-002-108                           |
| 141  | FG-HV3D6-33SV31GK4F60 | e-HV,TRIPLEX,HV3D6-33SV31GK4F60  | 80-002-103               | 80-002-107                 | 80-002-108                           |
| 142  | FG-HV4D6-33SV31GK4F60 | e-HV,QUADPLEX,HV4D6-33SV31GK4F60 | 80-002-103               | 80-002-107                 | 80-002-108                           |

# Trans Dimensional Drawings



| Case Style | Dimensions in Inches |                |      |                |      |      |   |   |      |     |                  |     |      |   |
|------------|----------------------|----------------|------|----------------|------|------|---|---|------|-----|------------------|-----|------|---|
|            | A                    | A <sub>I</sub> | B    | B <sub>I</sub> | C    | D    | E | F | G    | H   | K                | L   | MA   |   |
| DH1        | 21.5                 | 18.8           | 20.1 | 15             | 22   | 12.6 | 2 | 7 | 8.3  | 6.6 | 1.38 X 1.75 K.O. | 2.6 | 20   | 9 |
| DH2        | 25.8                 | 23.3           | 23.8 | 18             | 28.8 | 17   | 2 | 8 | 10.3 | 8.6 | 1.75 X 2.50 K.O. | 3.8 | 24.6 | 9 |

<sup>1</sup> Knockout (K) sizes are actual diameters of knockout, not conduit sizes.

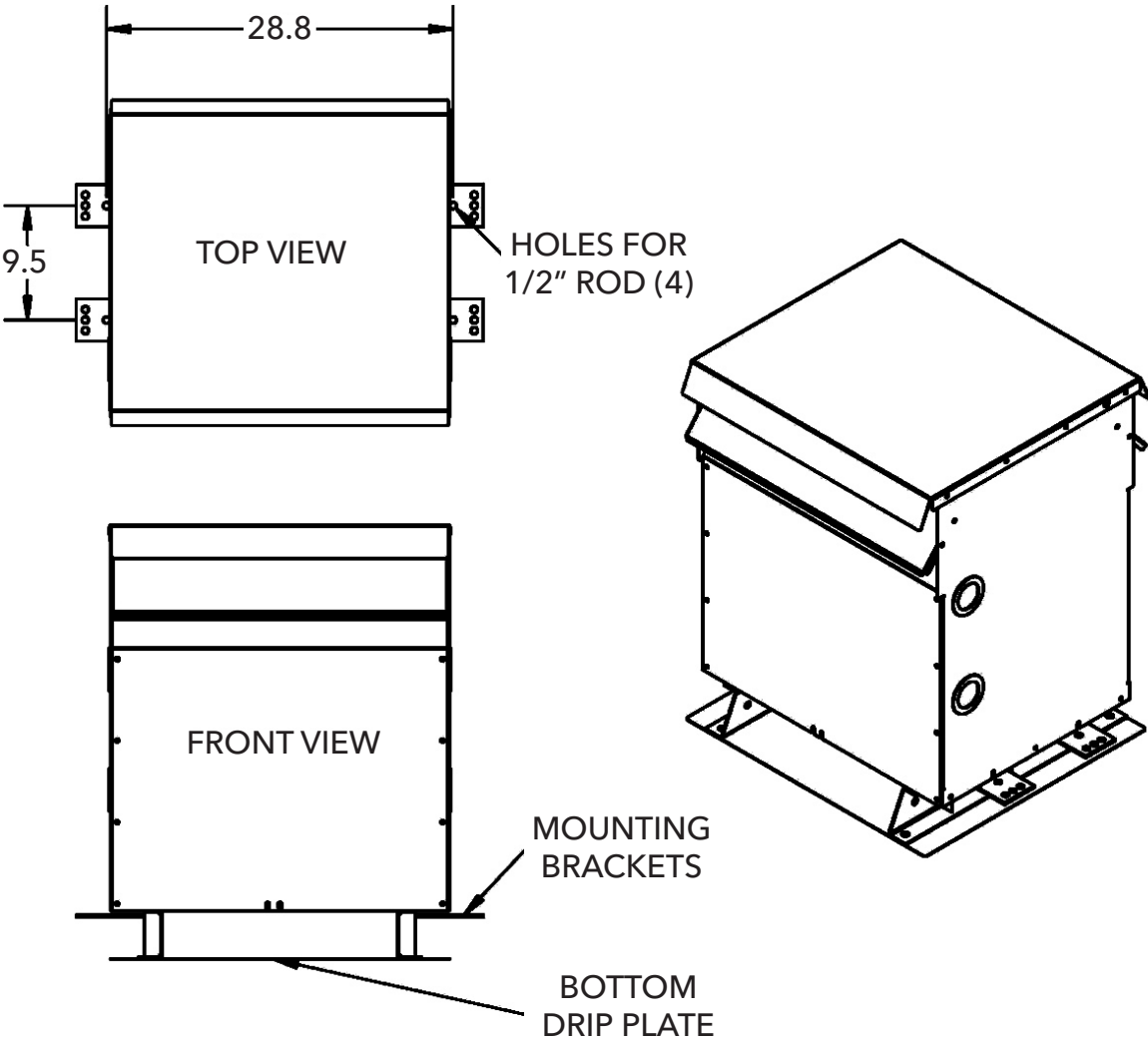


| Case Style | Dimensions in Inches |      |      |      |      |   |      |                  |   |      |      |      |    |
|------------|----------------------|------|------|------|------|---|------|------------------|---|------|------|------|----|
|            | A                    | B    | Br   | C    | D    | E | H    |                  | K |      | L    | M    | MA |
| DH3        | 28.3                 | 27   | 22   | 36   | 22   | 3 | 12   | 2.00 X 3.00 K.O  | 1 | 26   | 21.5 | 24   |    |
| DH4        | 31.5                 | 29.5 | 24.5 | 44.5 | 27.5 | 3 | 14.5 | 2.00 X 3.00 K.O. | 1 | 28.5 | 23.5 | 26.5 |    |

<sup>1</sup> Knockout (K) sizes are actual diameters of knockout, not conduit sizes.

# Optional DW3 Wall/Ceiling Kit

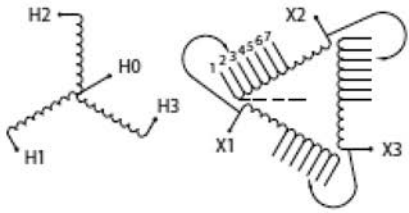
P/N 80-002-108 (75 kVA units)



DW<sub>3</sub> Ceiling Mount - Mounting Dimensions for DH<sub>3</sub> Enclosures

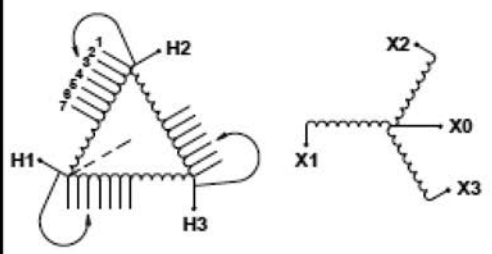
## 208V Primary Schematic Wiring Diagram

SCD 53

| SCHEMATIC                                                                         | CONNECTIONS   |                 |            |                   |
|-----------------------------------------------------------------------------------|---------------|-----------------|------------|-------------------|
|  | % Voltage     | Primary Volts   |            | Inter-connect     |
|                                                                                   | 105.0%        | 218             | 252        | 1                 |
|                                                                                   | 102.5%        | 213             | 246        | 2                 |
|                                                                                   | <b>100.0%</b> | <b>208</b>      | <b>240</b> | <b>3</b>          |
|                                                                                   | 97.5%         | 203             | 234        | 4                 |
|                                                                                   | 95.0%         | 198             | 228        | 5                 |
|                                                                                   | 92.5%         | 192             | 222        | 6                 |
|                                                                                   | 90.0%         | 187             | 216        | 7                 |
|                                                                                   |               | Secondary Volts |            | Connect lines to  |
|                                                                                   |               | 480             |            | H1, H2, H3        |
|                                                                                   |               | 277             |            | H1,H0 H2,H0 H3,H0 |

## 600V Primary Schematic Wiring Diagram

SCD 19

| SCHEMATIC                                                                          | CONNECTIONS   |                 |                    |                      |
|------------------------------------------------------------------------------------|---------------|-----------------|--------------------|----------------------|
|  | % Voltage     | Primary Volts   |                    | Inter-connect        |
|                                                                                    | 105.0%        | 218             | 252 504 630        | 1-2                  |
|                                                                                    | 102.5%        | 213             | 246 492 615        | 2-3                  |
|                                                                                    | <b>100.0%</b> | <b>208</b>      | <b>240 480 600</b> | <b>3-4</b>           |
|                                                                                    | 97.5%         | 203             | 234 468 585        | 4-5                  |
|                                                                                    | 95.0%         | 198             | 228 456 570        | 5-6                  |
|                                                                                    | 92.5%         | 193             | 222 444 556        | 6-7                  |
|                                                                                    | 90.0%         | 188             | 216 432 542        | 7-8                  |
|                                                                                    |               | Secondary Volts |                    | Connect lines to     |
|                                                                                    |               | 208 480         |                    | X1, X2, X3           |
|                                                                                    |               | 120 277         |                    | X1, X0 X2, X0 X3, X0 |

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- 2) a leading global water technology company.

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