

回路図  
Circuit Diagram

The diagram illustrates a three-phase transformer with the following specifications:

- Primary (PRI):** Three windings, each with a 400V/440V tap. The primary is connected to a three-phase supply (U, V, W).
- Secondary (SEC.):** Three windings, each with a 200V/220V tap. The secondary is connected to a three-phase supply (u, v, w) and a neutral point (N).
- Grounding:** A ground symbol is shown at the bottom right, indicating a grounded neutral point.

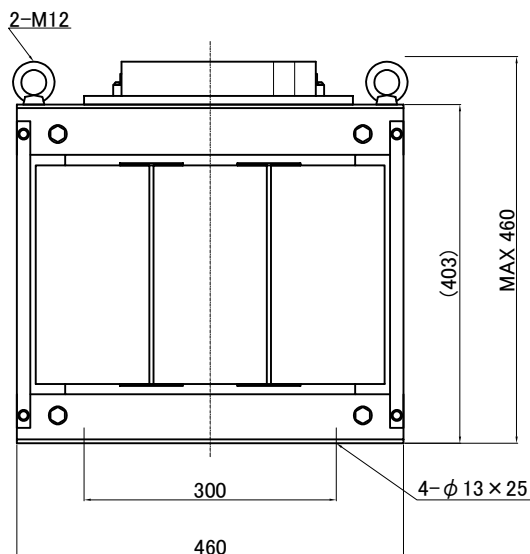
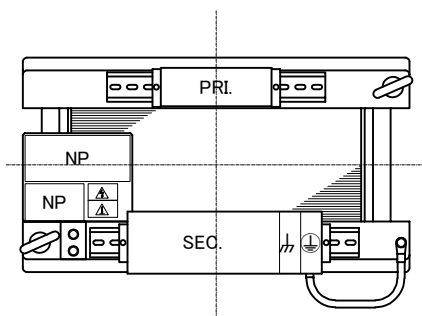
PRI. 

|   |     |     |   |     |     |     |   |     |     |
|---|-----|-----|---|-----|-----|-----|---|-----|-----|
| U | 400 | 440 | V | PRI | 400 | 440 | W | 400 | 440 |
|---|-----|-----|---|-----|-----|-----|---|-----|-----|

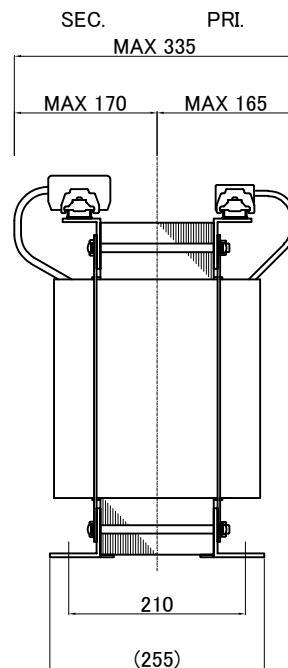
SEC. 

|   |     |     |   |     |     |     |   |     |     |   |         |          |
|---|-----|-----|---|-----|-----|-----|---|-----|-----|---|---------|----------|
| u | 200 | 220 | v | 200 | SEC | 220 | w | 200 | 220 | N | $\hbar$ | $\oplus$ |
|---|-----|-----|---|-----|-----|-----|---|-----|-----|---|---------|----------|

|                                                                                     |        |    |    |              |
|-------------------------------------------------------------------------------------|--------|----|----|--------------|
| PRI.                                                                                | PT-80  | 9P | M5 | (2.0~3.0N・m) |
| SEC.                                                                                | PT-150 | 7P | M8 | (6.0~9.0N・m) |
|  | PT-150 | 2P | M8 | (6.0~9.0N・m) |



|                                                         |                                                                                                     |                          |                                                                                                  |
|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------|--------------------------|--------------------------------------------------------------------------------------------------|
| 仕様<br>Specification                                     |                                                                                                     |                          |                                                                                                  |
| 定格<br>Rating                                            | 連続<br>Cont.                                                                                         | 結線<br>Connection         | $\Delta$ -  N |
| 容量<br>Capacity                                          | 20.8 kVA                                                                                            |                          |                                                                                                  |
| 相数<br>Phase                                             | 3~                                                                                                  | 周波数<br>Frequency         | 50/60Hz                                                                                          |
| 1次電圧<br>Primary Volt.                                   | 400/440V                                                                                            |                          |                                                                                                  |
| 2次電圧<br>Secondary Volt.                                 | 200/220V                                                                                            |                          |                                                                                                  |
| 2次電流<br>Secondary Curr.                                 | 60/54.6A                                                                                            |                          |                                                                                                  |
| 絶縁抵抗<br><u>Insulation Resistance</u>                    |                                                                                                     |                          |                                                                                                  |
| P-E P-S S-E                                             | 100M $\Omega$ Min. at DC500V                                                                        |                          |                                                                                                  |
| 絶縁耐圧<br><u>Dielectric Withstand Volt.</u>               |                                                                                                     |                          |                                                                                                  |
| P-E                                                     | AC 60Hz                                                                                             | 4.0kV / 1min.            |                                                                                                  |
| P-S                                                     | AC 60Hz                                                                                             | 5.0kV / 1min.            |                                                                                                  |
| S-E                                                     | AC 60Hz                                                                                             | 2.5kV / 1min.            |                                                                                                  |
| トランス質量<br>Transformer Mass                              | 160kg                                                                                               |                          |                                                                                                  |
| 絶縁種別<br>Insulation Class                                | Class 180(H)                                                                                        |                          |                                                                                                  |
| 定格周囲温度<br>Ambient Temp.                                 | 40°C                                                                                                |                          |                                                                                                  |
| 適用規格<br>Standard                                        | UL1561<br>C22.2 No. 47-M90<br>EN61558-1, EN61558-2-4<br>IEC61558-1, IEC61558-2-4<br>BS EN IEC 63000 |                          |                                                                                                  |
| ULファイルNo.<br>UL File No.                                | E258403                                                                                             |                          |                                                                                                  |
| EN, IECマーク<br>EN, IEC Mark                              | Non short circuit proof<br>isolating transformer                                                    |                          |             |
| 推奨保護装置定格<br><u>Recommended protection device rating</u> |                                                                                                     |                          |                                                                                                  |
|                                                         |                                                                                                     | Pri. Circuit Breaker     | 60A                                                                                              |
|                                                         |                                                                                                     | Sec. Circuit Breaker     | 60A                                                                                              |
|                                                         |                                                                                                     | (IEC60947-2 or IEC60934) |                                                                                                  |



質量は標準仕様の値を記入しており、実測値と異なる場合もあります。

|                                                                                                      |                              |                                                  |                                |                                   |
|------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------|--------------------------------|-----------------------------------|
| <br>IMAI ELECTRIC | 設計 DESIGNED<br>DATE 13.01.24 | 品名 DESCRIPTION<br>Dry type Isolating Transformer |                                | 摘要 REMARKS                        |
|                                                                                                      | DRAWN<br>N.Marukai           | 尺度 SCALE<br>mm                                   | 単位 UNIT<br>mm                  | 型 名<br>MODEL<br>IEH3-DYB0208S-393 |
|                                                                                                      | APPROVED<br>S.Murakami       | 表面処理 FINISH                                      | 図 番<br>DWG NO.<br>SDYB0208S393 | 改訂<br>Ver. 4                      |