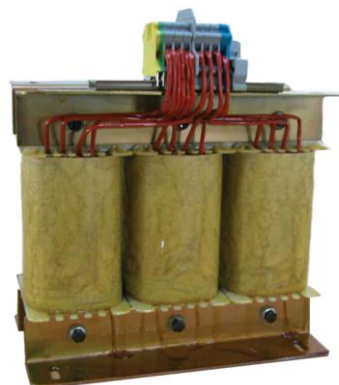


## THREE PHASE DRY TYPE ISOLATION TRANSFORMER TTI RANGE

- ✓ Separate windings
- ✓ Natural air cooling AN type, suitable for indoor installation
- ✓ Copper/Aluminium winding (according to size and request)
- ✓ Low losses magnetic core
- ✓ Resin impregnated and tropicalized
- ✓ Shrouded terminals up to 10KVA, Bolts on isolated plate from 12.5KVA or currents higher than 63 A
- ✓ Copper earthed screen between the windings



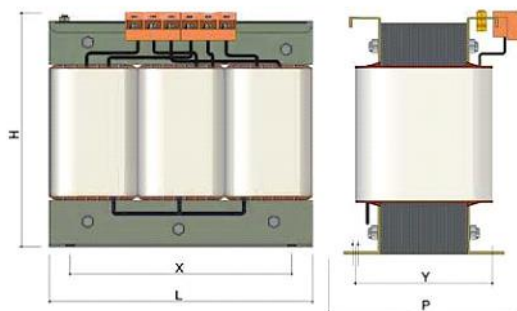
### ELECTRICAL SPECIFICATION

|                                |                                                          |
|--------------------------------|----------------------------------------------------------|
| Rated power:                   | from 1KVA to 40KVA (higher ratings available on request) |
| Input voltage (primary):       | 400V three phase DELTA *                                 |
| Output voltage (secondary):    | 400V three phase star + N *                              |
| Frequency:                     | 50/60 Hz                                                 |
| Connections group              | DELTA / star + N *                                       |
| Vector group                   | Dyn11 *                                                  |
| Efficiency:                    | from 95% to > 97% according to rating and voltages       |
| Dielectric strength            | 4.2 kV                                                   |
| Inrush current:                | < 15 In                                                  |
| Short circuit voltage          | < 6%                                                     |
| Temperature class              | F                                                        |
| Max temperature rise (at=25°C) | 105°C                                                    |
| Max ambient temperature        | -5°C ~ +40°C                                             |
| Noise level at 1m.             | < 60 dB (A)                                              |
| Relative humidity              | 50% ~ 95%                                                |
| Max altitude:                  | up to 1000 m. **                                         |
| Grade of protection            | IP00                                                     |
| Protection class               | I                                                        |
| Applied standards:             | EN61558-2-4, CEI 96-8 – EN61558-2-6, CEI 96-7 ***        |

### MECHANICAL SPECIFICATION

|                  |     |
|------------------|-----|
| Rating plate     | Yes |
| Earth connection | Yes |

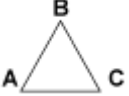
More accessories and fittings available on request.



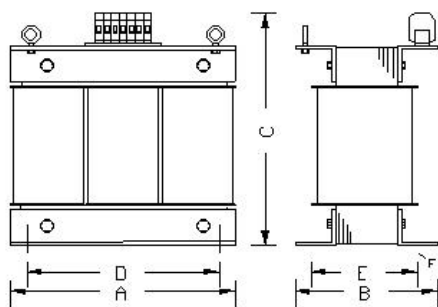
- \* Different input/output voltages and vector groups available on request  
 \*\* In case product is installed at higher altitudes a power derating is required  
 \*\*\* safety isolation transformers only when output voltage is below 50Vac

Technical data and images may be subject to a change without notice

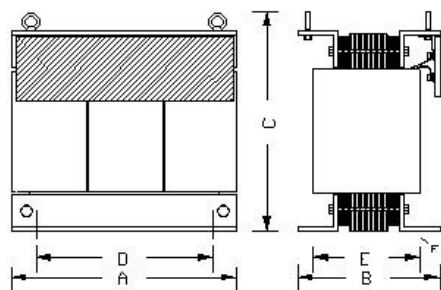
## THREE PHASE DRY TYPE ISOLATION TRANSFORMER TTI RANGE

| CONN.        | Pri                                                                               | Sec                                                                               | Pri                                                                                 | sec                                                                                 |
|--------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>Dyn11</b> |  |  |  |  |

| Power<br>KVA | Code   | Losses (W) |      | Short circ.<br>voltage % | Regulation<br>% | Dimensions mm. |     |     |     |     |       | DWG | Weight<br>kg. | box<br>code |
|--------------|--------|------------|------|--------------------------|-----------------|----------------|-----|-----|-----|-----|-------|-----|---------------|-------------|
|              |        | No load    | Load |                          |                 | A              | B   | C   | D   | E   | F     |     |               |             |
| 1            | TTI179 | 15         | 55   | 4.5                      | 3.5             | 240            | 130 | 210 | 200 | 96  | 18x7  | A   | 18.0          | SAM01       |
| 2            | TTI219 | 28         | 90   | 4.5                      | 3.5             | 240            | 160 | 210 | 200 | 126 | 18x7  | A   | 28.0          | SAM01       |
| 3            | TTI249 | 42         | 120  | 4.5                      | 3.0             | 300            | 154 | 260 | 250 | 134 | 24x9  | A   | 40.0          | SAM02       |
| 4            | TTI267 | 60         | 160  | 4.5                      | 3.0             | 360            | 160 | 310 | 325 | 126 | 24x9  | A   | 46.0          | SAM02       |
| 5            | TTI287 | 70         | 200  | 4.0                      | 3.0             | 360            | 170 | 310 | 325 | 136 | 24x9  | A   | 50.0          | SAM03       |
| 6            | TTI307 | 70         | 220  | 4.0                      | 3.0             | 360            | 170 | 310 | 325 | 136 | 24x9  | A   | 56.0          | SAM03       |
| 8            | TTI347 | 90         | 260  | 4.0                      | 3.0             | 360            | 180 | 310 | 325 | 136 | 24x9  | A   | 68.0          | SAM03       |
| 10           | TTI387 | 90         | 280  | 4.0                      | 3.0             | 360            | 180 | 310 | 325 | 136 | 24x9  | A   | 75.0          | SAM03       |
| 12.5         | TTI407 | 100        | 280  | 4.0                      | 3.0             | 420            | 190 | 360 | 375 | 154 | 30x10 | A   | 90.0          | SAM04       |
| 15           | TTI427 | 120        | 350  | 4.0                      | 3.0             | 420            | 200 | 360 | 375 | 164 | 30x10 | A   | 105.0         | SAM04       |
| 20           | TTI467 | 150        | 420  | 3.5                      | 3.0             | 420            | 210 | 360 | 375 | 174 | 30x10 | A   | 120.0         | SAM04       |
| 25           | TTI507 | 160        | 460  | 3.5                      | 3.0             | 480            | 232 | 410 | 440 | 190 | 30x12 | A   | 130.0         | SAM05       |
| 30           | TTI547 | 250        | 700  | 3.5                      | 3.0             | 540            | 290 | 460 | 480 | 244 | 30x12 | B   | 180.0         | SAM07       |
| 40           | TTI627 | 250        | 750  | 3.5                      | 3.0             | 540            | 290 | 460 | 480 | 244 | 30x12 | B   | 216.0         | SAM07       |



A



B

Technical data and images may be subject to a change without notice

### OPTIONS AVAILABLE ON DEMAND

- **voltage adjustment sockets: 2 x 2.5%**

### ACCESSORIES AVAILABLE ON REQUEST

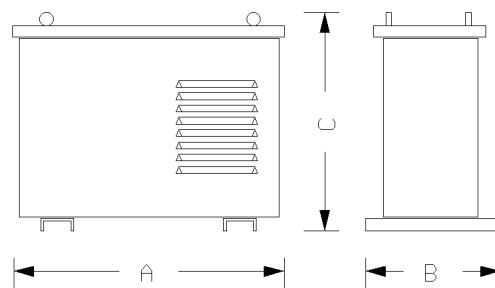
#### **Installed in metal box of dust-painted protection RAL7035**

IP23 protection

Cable input from the side and bottom

Provision for input/output cables

Internal and external rating plate



| Code          | SUITABLE FOR          | Dimensions<br>mm.     | Weight<br>Kg |
|---------------|-----------------------|-----------------------|--------------|
| <b>SAM01</b>  | <b>1:2KVA</b>         | <b>290X260X245</b>    | <b>12</b>    |
| <b>SAM02</b>  | <b>3:5KVA</b>         | <b>430X290X395</b>    | <b>18</b>    |
| <b>SAM03</b>  | <b>6:10KVA</b>        | <b>475X355X495</b>    | <b>20</b>    |
| <b>SAM04</b>  | <b>12.5:15KVA</b>     | <b>550X390X553</b>    | <b>25</b>    |
| <b>SAM05</b>  | <b>20:40KVA</b>       | <b>710X440X670</b>    | <b>40</b>    |
| <b>SAM07</b>  | <b>higher ratings</b> | <b>775X570X825</b>    | <b>50</b>    |
| <b>SAM09C</b> | <b>higher ratings</b> | <b>900X640X1030</b>   | <b>75</b>    |
| <b>SAM10</b>  | <b>higher ratings</b> | <b>1300X1000X1300</b> | <b>110</b>   |

#### IP44 VERSION

|                  |                   |                     |           |
|------------------|-------------------|---------------------|-----------|
| <b>SAM07-44</b>  | <b>20:100KVA</b>  | <b>825X570X825</b>  | <b>55</b> |
| <b>SAM09C-44</b> | <b>150-200KVA</b> | <b>950X640X1030</b> | <b>80</b> |

Technical data and images may be subject to a change without notice