



### Main

|                                       |   |
|---------------------------------------|---|
| Commercial Status                     | Commercialised  |
| Range of product                      | Phaseo Optimum  |
| Product or component type             | Safety and isolation transformer  |
| Rated power in VA                     | 1000 VA   |
| Input voltage                         | 400 V AC phase to phase, terminal(s): L1-L2<br>230 V AC single phase, terminal(s): N-L1 |
| Output voltage                        | 230 V AC  |
| Secondary winding                     | Single  |
| Protective cover                      | Without   |
| Ambient air temperature for operation | -20...50 °C   |

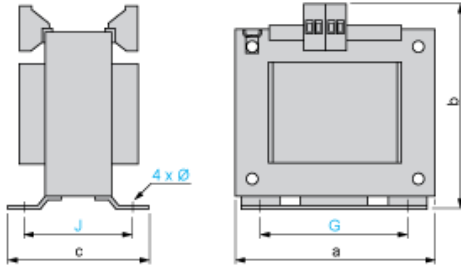
### Complementary

|                              |   |
|------------------------------|---|
| Input voltage limits         | 207...253 V<br>360...440 V  |
| Network frequency limits     | 47...63 Hz  |
| Input voltage tolerance      | +/- 15 V  |
| Efficiency                   | 94 %  |
| Power dissipation in W       | 63.8 W  |
| Output sustained overvoltage | 3 % (no load, hot state)  |
| Voltage drop at rated load   | 5 %   |
| No load losses               | 26.5 W  |
| Short-circuit voltage        | 0,0324  |
| Output protection type       | Against short-circuits, protection technology: external<br>Against overvoltage, protection technology: external<br>Against overload, protection technology: external  |
| Connections - terminals      | Screw type terminals for output connection, connection capacity: 2 x 4 mm <sup>2</sup> AWG gauge11<br>Screw type terminals for input ground connection, connection capacity: 1 x 4 mm <sup>2</sup> AWG gauge11<br>Screw type terminals for input connection, connection capacity: 5 x 4 mm <sup>2</sup> AWG gauge11 |
| Marking                      | CE  |
| Fixing mode                  | By 4 screws, screw(s) Ø = 7 mm on vertical panel, operating position: vertical<br>By 4 screws, screw(s) Ø = 7 mm on vertical panel, operating position: horizontal<br>By 4 screws, screw(s) Ø = 7 mm on horizontal panel with derating to 90 %  |
| Electrical insulation class  | Class B   |
| Product weight               | 14.3 kg   |

### Environment

|  |   |
|--|---|
| Product certifications                     | UR  |
| IP degree of protection                    | IP20 conforming to EN/IEC 60529   |
| Protective treatment                       | TC  |
| Ambient air temperature for storage        | -40...80 °C   |
| Class of protection against electric shock | Class I conforming to VDE 0106-1  |
| Dielectric strength                        | 4000 V between primary and secondary<br>2000 V between winding and ground |

Dimensions



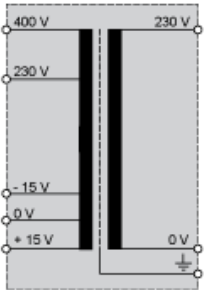
Dimensions in mm

| a   | b   | c   | G   | J     | Ø |
|-----|-----|-----|-----|-------|---|
| 174 | 180 | 146 | 135 | 111.5 | 7 |

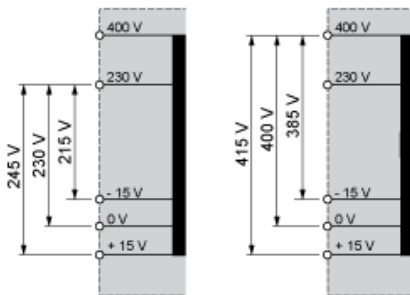
Dimensions in in.

| a    | b    | c    | G    | J    | Ø    |
|------|------|------|------|------|------|
| 6.85 | 7.09 | 5.75 | 5.31 | 4.39 | 0.27 |

Internal Scheme



Primary Voltage Wiring



Secondary Voltage Wiring

