



## Main

|                           |   |
|---------------------------|---|
| Range of product          | Phaseo Universal  |
| Product or component type | Safety and isolation transformer  |
| Rated power in VA         | 40 VA   |
| Input voltage             | 230 V AC single phase , terminal(s): N-L1<br>400 V AC phase to phase , terminal(s): L1-L2 |
| Output voltage            | 24/48 V AC  |
| Secondary winding         | Double  |
| Protective cover          | With  |

## Complementary

|                                   |  |
|-----------------------------------|--|
| Input voltage limits              | 207...253 V<br>360...440 V   |
| Network frequency limits          | 47...63 Hz   |
| Input voltage tolerance           | +/- 15 V   |
| Efficiency                        | 79 %   |
| Power dissipation in W            | 10.6 W   |
| Voltage variation at nominal load | 6.16 % at 230 V<br>6.5 % at 400 V  |
| Output sustained overvoltage      | 2.4 % (no load, hot state)   |
| Voltage drop at rated load        | 6 %  |
| No load losses                    | 6.73 W   |
| Short-circuit voltage             | 10.60 %  |
| Output protection type            | Against overload , protection technology: external<br>Against overvoltage , protection technology: external<br>Against short-circuits , protection technology: external  |
| Connections - terminals           | Screw type terminals for input connection , connection capacity: 5 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 output connection , connection capacity: 4 x 4 mm <sup>2</sup> AWG gauge11 |
| Marking                           | CE   |
| Fixing mode                       | By 4 screws , screw(s) # = 5.5 mm on vertical panel , operating position: vertical<br>By 4 screws , screw(s) # = 5.5 mm on vertical panel , operating position: horizontal<br>By 4 screws , screw(s) # = 5.5 mm on horizontal panel with derating to 90 %<br>By clips on 35 x 15 mm symmetrical DIN rail               |
| Output coupling                   | Grounding of secondary<br>Parallel<br>Series by internal jumper  |
| Electrical insulation class       | Class B  |
| Status LED                        | 1 LED orange for input voltage   |
| Product weight                    | 1.4 kg   |

## Environment

|  |  |
|--|--|
| Product certifications                     | ENEC<br>CURus  |
| IP degree of protection                    | IP20 conforming to EN/IEC 60529  |
| Ambient air temperature for operation      | -20...60 °C  |
| Ambient air temperature for storage        | -40...80 °C  |
| Relative humidity                          | 0...95 % during operation  |
| Class of protection against electric shock | Class I conforming to VDE 0106-1   |
| Dielectric strength                        | 3200 V between input and ground<br>3200 V between output and ground<br>5100 V between input and output |
| RoHS EUR conformity date                   | 0501   |
| RoHS EUR status                            | Compliant  |