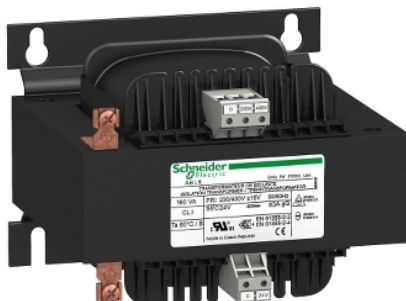




## Main

|                                       |                                                                                         |
|---------------------------------------|-----------------------------------------------------------------------------------------|
| Range of product                      | Modicon Optimized                                                                       |
| Product or component type             | Safety and isolation transformer                                                        |
| Rated power in VA                     | 100 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                        | 12 V AC                                                                                 |
| Secondary winding                     | Single                                                                                  |
| Protective cover                      | Without                                                                                 |
| Ambient air temperature for operation | -20...50 °C                                                                             |

## Complementary

|                                    |                                                                                                                                                                                                                                                                                                          |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Input voltage limits               | 360...440 V<br>207...253 V                                                                                                                                                                                                                                                                               |
| Network frequency limits           | 47...63 Hz                                                                                                                                                                                                                                                                                               |
| Input voltage tolerance            | +/- 15 V                                                                                                                                                                                                                                                                                                 |
| Efficiency                         | 86 %                                                                                                                                                                                                                                                                                                     |
| Power dissipation in W             | 16.3 W                                                                                                                                                                                                                                                                                                   |
| Output sustained overvoltage       | 9 % (no load, hot state)                                                                                                                                                                                                                                                                                 |
| Maximum voltage drop at rated load | 0.3 %                                                                                                                                                                                                                                                                                                    |
| No load losses                     | 7.1 W                                                                                                                                                                                                                                                                                                    |
| Short-circuit voltage              | 8 %                                                                                                                                                                                                                                                                                                      |
| Output protection type             | Against overload, protection technology: external<br>Against overvoltage, protection technology: external<br>Against short-circuits, protection technology: external                                                                                                                                     |
| Connections - terminals            | For input connection: screw type terminals, connection capacity: 5 x 4 mm <sup>2</sup> AWG 11<br>For input ground connection: screw type terminals, connection capacity: 1 x 4 mm <sup>2</sup> AWG 11<br>For output connection: screw type terminals, connection capacity: 2 x 4 mm <sup>2</sup> AWG 11  |
| Marking                            | CE                                                                                                                                                                                                                                                                                                       |
| Fixing mode                        | By 4 screws diameter: 4.8 mm on vertical panel, operating position: horizontal<br>By 4 screws diameter: 4.8 mm on vertical panel, operating position: vertical<br>By clips (with mounting plate) on 35 mm symmetrical DIN rail<br>By 4 screws diameter: 4.8 mm on horizontal panel with derating to 90 % |
| Operating altitude                 | 3000 m                                                                                                                                                                                                                                                                                                   |
| Electrical insulation class        | Class B                                                                                                                                                                                                                                                                                                  |
| Width                              | 85 mm                                                                                                                                                                                                                                                                                                    |
| Height                             | 94 mm                                                                                                                                                                                                                                                                                                    |
| Depth                              | 86 mm                                                                                                                                                                                                                                                                                                    |
| Net weight                         | 2.1 kg                                                                                                                                                                                                                                                                                                   |

## Environment

|                                     |                                                                                                    |
|-------------------------------------|----------------------------------------------------------------------------------------------------|
| Product certifications              | EAC<br>UR                                                                                          |
| Standards                           | UL 506                                                                                             |
| IP degree of protection             | IP20                                                                                               |
| Environmental characteristic        | EMC conforming to EN 62041<br>Safety conforming to EN 61558-1<br>Safety conforming to EN 61558-2-6 |
| Protective treatment                | TC                                                                                                 |
| Ambient air temperature for storage | -40...80 °C                                                                                        |
| Overvoltage category                | Class I conforming to VDE 0106-1                                                                   |
| Dielectric strength                 | 2000 V between winding and ground<br>4000 V between primary and secondary                          |

## Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Weight             | 2.187 kg |
| Package 1 Height             | 12.5 cm  |
| Package 1 width              | 15 cm    |
| Package 1 Length             | 18.5 cm  |
| Unit Type of Package 2       | P06      |
| Number of Units in Package 2 | 20       |
| Package 2 Weight             | 56.74 kg |
| Package 2 Height             | 80 cm    |
| Package 2 width              | 80 cm    |
| Package 2 Length             | 60 cm    |

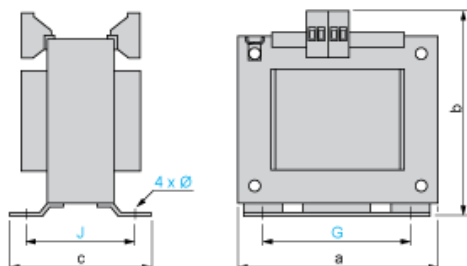
## Offer Sustainability

|                            |                                                                                                |
|----------------------------|------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                          |
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                              |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a> |
| Mercury free               | Yes                                                                                            |
| RoHS exemption information | <a href="#">Yes</a>                                                                            |
| China RoHS Regulation      | <a href="#">China RoHS Declaration</a>                                                         |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>                                                  |
| PVC free                   | Yes                                                                                            |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

## Dimensions



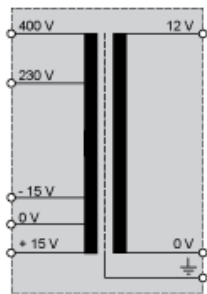
Dimensions in mm

| a  | b  | c  | G  | J    | Ø   |
|----|----|----|----|------|-----|
| 85 | 94 | 86 | 64 | 65.5 | 4.8 |

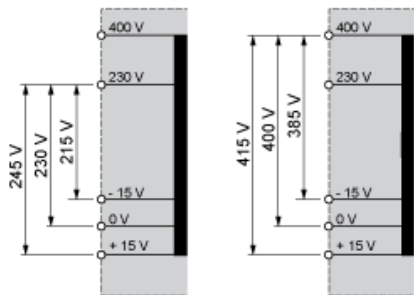
Dimensions in in.

| a    | b    | c    | G    | J    | Ø    |
|------|------|------|------|------|------|
| 3.35 | 3.70 | 3.39 | 2.52 | 2.58 | 0.19 |

Internal Scheme



Primary Voltage Wiring



Secondary Voltage Wiring

