

**PRO ECO3 240W 24V 10A**
**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



The new PROeco 2nd generation power supplies maximise the availability of automation applications. The twelve-part series offers standard functions: with high performance, efficiency and suitability for many systems. The three-colour LED makes service activities and the integration of PROeco devices particularly easy. The series is compatible with DC UPS, electronic load monitoring and diode modules and is suitable for setting up power management systems. The compact design suits space-constrained applications, such as flat control cabinets in the field.

**General ordering data**

|                     |  |
|---------------------|--|
| Version             | Power supply, switch-mode power supply unit, 24 V              |
| Order No.           | <a href="#">1469540000</a>                                     |
| Type                | PRO ECO3 240W 24V 10A  |
| GTIN (EAN)          | 4050118275759  |
| Qty.                | 1 pc(s).   |
| Delivery status     | <b>This article will no longer be available in the future.</b> |
| Available until     | 2026-12-30   |
| Alternative product | <a href="#">3025630000</a>                                     |

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**Technical data**
**Dimensions and weights**

|            |        |                 |            |
|------------|--------|-----------------|------------|
| Depth      | 100 mm | Depth (inches)  | 3.937 inch |
| Height     | 125 mm | Height (inches) | 4.921 inch |
| Width      | 60 mm  | Width (inches)  | 2.362 inch |
| Net weight | 957 g  |                 |            |

**Temperatures**

|                     |                |                       |                |
|---------------------|----------------|-----------------------|----------------|
| Storage temperature | -40 °C...85 °C | Operating temperature | -25 °C...70 °C |
|---------------------|----------------|-----------------------|----------------|

**Rated data UL**

|                         |         |
|-------------------------|---------|
| Certificate No. (cURus) | E255651 |
|-------------------------|---------|

**Input**

|  |  |            |  |
|--|--|------------|--|
| AC input voltage range                               | 3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC            |            |  |
| Connection system                                    | Screw connection   |            |  |
| Current consumption in relation to the input voltage | Voltage type   | 3-phase AC |  |
|  | Input voltage  | 400 V      |  |
|  | Input current  | 0.8 A      |  |
|  | Voltage type   | 3-phase AC |  |
|  | Input voltage  | 500 V      |  |
|  | Input current  | 0.6 A      |  |
|  | Voltage type   | DC         |  |
|  | Input voltage  | 800 V      |  |
|  | Input current  | 0.4 A      |  |
|  | Voltage type   | DC         |  |
| Input voltage  | 450 V  |            |  |
| Input current  | 0.7 A  |            |  |
| DC input voltage range                               | 450...800 V DC   |            |  |
| Frequency range AC                                   | 47...63 Hz   |            |  |
| Input fuse (internal)                                | Yes  |            |  |
| Inrush current                                       | max. 50 A  |            |  |
| Nominal power consumption                            | 272.7 VA   |            |  |
| Rated input voltage                                  | 3x 400...3x 500 V AC (wide-range input)                    |            |  |
| Recommended back-up fuse                             | 2 A / DI, safety fuse<br>2...3 A, Char. C, circuit breaker |            |  |
| Surge protection                                     | Varistor   |            |  |

**Output**

|   |                             |                                      |                                       |
|---|-----------------------------|--------------------------------------|---------------------------------------|
| Capacitive load                           | unrestricted                | Connection system                    | Screw connection                      |
| Continuous output current @ $U_{Nominal}$ | 10 A @ 55 °C, 2.5 A @ 70 °C | Nominal output current for $U_{nom}$ | 10 A @ 55 °C                          |
| Output power                              | 240 W                       | Output voltage, max.                 | 28 V                                  |
| Output voltage, min.                      | 22 V                        | Output voltage, note                 | (adjustable via potentiometer)        |
| Overload protection                       | Yes                         | Parallel connection option           | yes, max. 5                           |
| Protection against inverse voltage        | Yes                         | Ramp-up time                         | ≤ 100 ms                              |
| Rated output voltage                      | 24 V DC ± 1 %               | Residual ripple, breaking spikes     | <50 mV <sub>pp</sub> @ 24 V DC, $I_N$ |

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## Technical data

### General data

|  |  |   |   |
|--|--|---|---|
| AC failure bridging time @ $I_{nom}$   | > 40 ms @ 3 x 500 V AC /<br>> 20 ms @ 3 x 400 V AC   | Degree of efficiency                              | 88%   |
| Earth leakage current, max.            | 3.5 mA   | Housing version                                   | Metal, corrosion resistant                    |
| Indication                             | Green LED ( $U_{output} > 21.6$ V DC), Yellow LED ( $I_{output} > 90\% I_{Rated}$ typ. ), red LED (overload, overtemperature, short-circuit, $U_{output} < 20.4$ V DC) | Max. perm. air humidity (operational)             | 5 %...95 % RH                                 |
| Mounting position, installation notice | on terminal rail TS 35   | Power factor (approx.)                            | > 0.55 @ 3 x 500 V AC / > 0.65 @ 3 x 400 V AC |
| Power loss, idling                     | 8 W  | Power loss, nominal load                          | 26 W  |
| Protection against over-heating        | Yes  | Protection against reverse voltages from the load | 30...35 V DC                                  |
| Protection degree                      | IP20   | Short-circuit protection                          | Yes   |
| Surge voltage category                 | II   |   |   |

### EMC / shock / vibration

|   |  |   |                           |
|---|--|---|---------------------------|
| Interference immunity test acc. to        | EN 61000-4-2 (ESD), EN 61000-4-3 (RS), EN 61000-4-4 (burst), EN 61000-4-5 (surge), EN 61000-4-6 (conducted), EN61000-4-8 (Fields), EN61000-4-11 (Dips) | Limiting of mains voltage harmonic currents | According to EN 61000-3-2 |
| Noise emission in accordance with EN55032 | Class B  | Shock resistance IEC 60068-2-27             | 15 g In all directions    |
| Vibration resistance IEC 60068-2-6        | 1 g according to EN 50178  |   |                           |

### Insulation coordination

|                                  |                       |                                   |        |
|----------------------------------|-----------------------|-----------------------------------|--------|
| Insulation voltage input / earth | 2 kV                  | Insulation voltage output / earth | 0.5 kV |
| Insulation voltage, input/output | 3 kV                  | Pollution severity                | 2      |
| Protection class                 | I, with PE connection | Surge voltage category            | II     |

### Electrical safety (applied standards)

|   |  |   |                                    |
|---|--|---|------------------------------------|
| Electrical machine equipment                | Acc. to EN60204  | For use with electronic equipment                           | Acc. to EN50178 / VDE0160          |
| Protection against dangerous shock currents | Acc. to VDE0106-101                                    | Protective separation / protection against electrical shock | VDE0100-410 / acc. to DIN57100-410 |
| Safety extra-low voltage                    | SELV acc. to IEC 60950-1, PELV according to EN 60204-1 | Safety transformers for switch-mode power supplies          | According to EN 61558-2-16         |

### Connection data (input)

|  |                     |   |                     |
|--|---------------------|---|---------------------|
| Conductor cross-section, AWG/kcmil, max. | 12 AWG              | Conductor cross-section, AWG/kcmil, min.              | 26 AWG              |
| Conductor cross-section, flexible, min.  | 0.5 mm <sup>2</sup> | Conductor cross-section, rigid, max.                  | 6 mm <sup>2</sup>   |
| Conductor cross-section, rigid, min.     | 0.5 mm <sup>2</sup> | Connection system                                     | Screw connection    |
| Number of terminals                      | 4 for L1/L2/L3/PE   | Tightening torque, max.                               | 0.6 Nm              |
| Tightening torque, min.                  | 0.5 Nm              | Wire connection cross section, flexible (input), max. | 2.5 mm <sup>2</sup> |

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## Technical data

## Connection data (output)

|   |                     |   |                     |
|---|---------------------|---|---------------------|
| Conductor cross-section, AWG/kcmil , max. | 12 AWG              | Conductor cross-section, AWG/kcmil , min. | 26 AWG              |
| Conductor cross-section, flexible , max.  | 2.5 mm <sup>2</sup> | Conductor cross-section, flexible , min.  | 0.5 mm <sup>2</sup> |
| Conductor cross-section, rigid , max.     | 6 mm <sup>2</sup>   | Conductor cross-section, rigid , min.     | 0.5 mm <sup>2</sup> |
| Connection system                         | Screw connection    | Number of terminals                       | 6 (+, -, 13, 14)    |
| Tightening torque, max.                   | 0.6 Nm              | Tightening torque, min.                   | 0.5 Nm              |

## Signalling

|                           |   |                  |     |
|---------------------------|---|------------------|-----|
| Contact load (NO contact) | max. 30 V DC / 1 A                                    | Floating contact | Yes |
| Relay on/off              | Output voltage<br>>21.6 V DC/ <20.4 V DC,<br>overload |                  |     |

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC002540    | ETIM 7.0    | EC002540    |
| ETIM 8.0    | EC002540    | ETIM 9.0    | EC002540    |
| ETIM 10.0   | EC002540    | ECLASS 9.0  | 27-04-07-01 |
| ECLASS 9.1  | 27-04-07-01 | ECLASS 10.0 | 27-04-07-01 |
| ECLASS 11.0 | 27-04-07-01 | ECLASS 12.0 | 27-04-07-01 |
| ECLASS 13.0 | 27-04-07-01 | ECLASS 14.0 | 27-04-07-01 |
| ECLASS 15.0 | 27-04-07-01 |             |             |

## Environmental Product Compliance

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| RoHS Compliance Status               | Compliant with exemption             |
| RoHS Exemption (if applicable/known) | 7a, 7cl                              |
| REACH SVHC                           | Lead 7439-92-1                       |
| SCIP                                 | 6d8cdf22-8230-4af8-86c8-3558c716666d |

## Approvals

Approvals



|                         |   |
|-------------------------|---|
| Approvals MAMID         | <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319228/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319228/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319230/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319230/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319258/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319258/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319260/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319260/-T1z1mm-S800/</a> |
| ROHS                    | Conform   |
| UL File Number Search   | UL Website  |
| Certificate No. (cURus) | E255651   |
| Certificate no. (cULus) | E258476   |

## Downloads

|   |  |
|---|--|
| Approval/Certificate/Document of Conformity | <a href="#">UL508 CSA C22.2 Certificate</a><br><a href="#">Declaration of Conformity</a><br><a href="#">UK Conformity Assessed</a> |
| Engineering Data                            | <a href="#">CAD data – STEP</a>  |
| User Documentation                          | <a href="#">Operating instructions</a>   |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>   |

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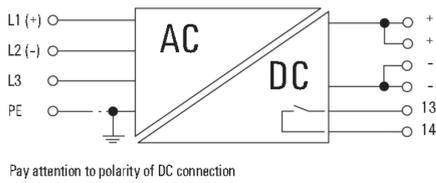
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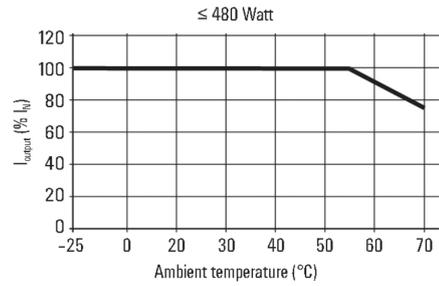
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**Drawings**

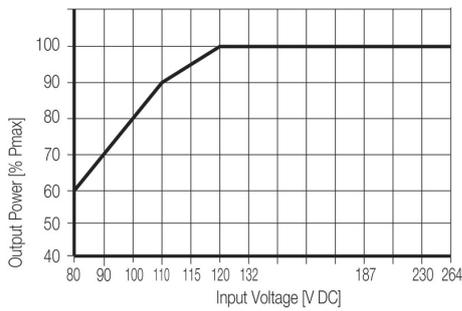
**Electric symbol**



**Derating curve**



**Derating curve**



**Derating curve**

