

**PRO DM 20****Weidmüller Interface GmbH & Co. KG**Klingenbergstraße 26  
D-32758 Detmold  
Germany

www.weidmueller.com



In many automation applications, power supply systems are required that function reliably even if a power supply unit fails. With our optimally coordinated supplementary modules, a permanent supply concept is created. Weidmüller's diodes and redundancy modules connect two power supplies to each other in order to compensate for the failure of one device. The diode modules allow with 20 A or 40 A output current to the construction of safe power supply systems

**General ordering data**

|            |                            |
|------------|----------------------------|
| Version    | Diode module, 24 V DC      |
| Order No.  | <a href="#">2486080000</a> |
| Type       | PRO DM 20                  |
| GTIN (EAN) | 4050118496819              |
| Qty.       | 1 items                    |

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## Technical data

## Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate no. (cULus) E258476

## Dimensions and weights

|            |        |                 |             |
|------------|--------|-----------------|-------------|
| Depth      | 125 mm | Depth (inches)  | 4.9212 inch |
| Height     | 125 mm | Height (inches) | 4.9212 inch |
| Width      | 32 mm  | Width (inches)  | 1.2598 inch |
| Net weight | 441 g  |                 |             |

## Temperatures

|                     |  |                       |                |
|---------------------|--|-----------------------|----------------|
| Storage temperature | -40 °C...85 °C   | Operating temperature | -40 °C...70 °C |
| Humidity            | 5-95% relative humidity,<br>Tu = 40°C, without<br>condensation |                       |                |

## Environmental Product Compliance

|                                      |                                      |  |  |
|--------------------------------------|--------------------------------------|--|--|
| RoHS Compliance Status               | Compliant with exemption             |  |  |
| RoHS Exemption (if applicable/known) | 7a, 7cI                              |  |  |
| REACH SVHC                           | Lead 7439-92-1                       |  |  |
| SCIP                                 | cc374e6c-371c-484b-a36d-6c65c5030ae7 |  |  |

## Input

|                       |   |                           |             |
|-----------------------|---|---------------------------|-------------|
| Connection system     | Screw connection  | Rated input voltage       | 24 V DC     |
| Input fuse (internal) | No  | DC input voltage range    | 0...60 V DC |
| Input current         | 2 × 24 A (-40 °C ~ +45 °C), 2 × 20 A (+45 °C ~ +60 °C), 2 × 15 A (+70 °C) | Nominal power consumption | 480 VA      |

## Output

|                                      |   |                                    |                                      |
|--------------------------------------|---|------------------------------------|--------------------------------------|
| Output power                         | 932 W   | Connection system                  | Screw connection                     |
| Rated output voltage                 | VINPUT-typ. 0.7 V   | Residual ripple, breaking spikes   | Dependent on the power supplies used |
| Output current, max.                 | 40 A  | Protection against inverse voltage | Yes                                  |
| Continuous output current @ UNominal | 1 × 48 A (-40 °C ~ +45 °C), 1 × 40 A (+45 °C ~ +60 °C), 1 × 30 A (+70 °C) |                                    |                                      |

## General data

|  |  |                        |  |
|--|--|------------------------|--|
| Degree of efficiency                   | > 97% @ 24 V Input voltage                 | Humidity               | 5-95% relative humidity,<br>Tu = 40°C, without<br>condensation |
| Protection degree                      | IP20                                       | Surge voltage category | III  |
| Building Width                         | 32 mm                                      | Building height        | 225 mm   |
| Mounting position, installation notice | Horizontal on TS35 mounting rail. 50 mm of | Housing version        | Metal, corrosion resistant                                     |

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clearance at top & bottom for air circ. Can mount side by side with no space in between.

|          |                          |                          |    |
|----------|--------------------------|--------------------------|----|
| Derating | > 60°C / 75% load @ 70°C | Short-circuit protection | No |
|----------|--------------------------|--------------------------|----|

### EMC / shock / vibration

|                                    |                        |                                    |   |
|------------------------------------|------------------------|------------------------------------|---|
| Shock resistance IEC 60068-2-27    | 30 g in all directions | Interference immunity test acc. to | EN 55022, EN 55024, EN 61000-3-2,-3, EN 61000-4-2 (ESD)/EN 61000-4-3 and EN 61000-4-8 (fields)/EN 61000-4-4 (burst)/EN 61000-4-5 (surge)/EN 61000-4-6 (conducted) |
| Vibration resistance IEC 60068-2-6 | 2.3 g (on DIN rail)    |                                    |   |

### Insulation coordination

|                                   |  |                                  |        |
|-----------------------------------|--|----------------------------------|--------|
| Surge voltage category            | III                                      | Pollution severity               | 2      |
| Protection class                  | III, with no ground connection, for SELV | Insulation voltage input / earth | 0.5 kV |
| Insulation voltage output / earth | 0.5 kV                                   |                                  |        |

### Electrical safety (applied standards)

|                              |                 |  |  |
|------------------------------|-----------------|--|--|
| Electrical machine equipment | Acc. to EN60204 |  |  |
|------------------------------|-----------------|--|--|

### Connection data (input)

|   |                      |   |                    |
|---|----------------------|---|--------------------|
| Connection system                         | Screw connection     | Number of terminals                                   | 4 (1+, 2+, 1-, 2-) |
| Screwdriver blade                         | 0.8 x 4.0, PZ 1      | Conductor cross-section, AWG/kcmil , max.             | 10 AWG             |
| Conductor cross-section, AWG/kcmil , min. | 26 AWG               | Wire connection cross section, flexible (input), max. | 4 mm <sup>2</sup>  |
| Conductor cross-section, flexible , min.  | 0.22 mm <sup>2</sup> | Conductor cross-section, rigid , max.                 | 6 mm <sup>2</sup>  |
| Conductor cross-section, rigid , min.     | 0.18 mm <sup>2</sup> | Tightening torque, min.                               | 0.5 Nm             |
| Tightening torque, max.                   | 0.6 Nm               |   |                    |

### Connection data (output)

|   |                    |   |                     |
|---|--------------------|---|---------------------|
| Connection system                         | Screw connection   | Number of terminals                       | 4 (++) / (-)        |
| Conductor cross-section, AWG/kcmil , max. | 8 AWG              | Conductor cross-section, AWG/kcmil , min. | 22 AWG              |
| Conductor cross-section, flexible , max.  | 16 mm <sup>2</sup> | Conductor cross-section, flexible , min.  | 0.5 mm <sup>2</sup> |
| Conductor cross-section, rigid , max.     | 16 mm <sup>2</sup> | Conductor cross-section, rigid , min.     | 0.5 mm <sup>2</sup> |
| Tightening torque, min.                   | 1.2 Nm             | Screwdriver blade                         | 1.0 x 5.5           |
| Tightening torque, max.                   | 1.5 Nm             |   |                     |

### Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 8.0    | EC002540    | ETIM 9.0    | EC002540    |
| ETIM 10.0   | EC002540    | ECLASS 14.0 | 27-04-07-90 |
| ECLASS 15.0 | 27-04-07-90 |             |             |

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## Accessories

## End bracket



Weidmüller's range of products includes end brackets that guarantee a permanent, reliable mounting on the terminal rail and prevent sliding. Versions with and without screws are available. The end brackets include marking options, also for group markers, and also a test plug holder.

## General ordering data

|            |                            |   |  |
|------------|----------------------------|---|--|
| Type       | WEW 35/1 V0 GF SW          | Version   |  |
| Order No.  | <a href="#">1478990000</a> | End bracket, black, TS 35, V-0, Wemid, Width: 12 mm, 130 °C |  |
| GTIN (EAN) | 4050118286892              |   |  |
| Qty.       | 50 ST                      |   |  |
| Type       | WEW 35/2 V0 GF SW          | Version   |  |
| Order No.  | <a href="#">1479000000</a> | End bracket, black, TS 35, V-0, Wemid, Width: 8 mm, 130 °C  |  |
| GTIN (EAN) | 4050118286779              |   |  |
| Qty.       | 50 ST                      |   |  |

## Crosshead screwdriver, Pozidrive



VDE insulated screwdriver sets, for working on live parts up to 1000 V AC and 1500 V DC, DIN EN 60900. IEC 900. Each piece is "GS" safety tested. Blade made from fully hardened, high-alloy chromium-vanadium-molybdenum steel, gun-metal finish.

## General ordering data

|            |                            |                          |  |
|------------|----------------------------|--------------------------|--|
| Type       | SDIK PZ1 SL                | Version                  |  |
| Order No.  | <a href="#">1274730000</a> | Screwdriver, Screwdriver |  |
| GTIN (EAN) | 4050118073225              |                          |  |
| Qty.       | 1 ST                       |                          |  |

## Slotted screwdriver



VDE insulated screwdriver sets, for working on live parts up to 1000 V AC and 1500 V DC, DIN EN 60900. IEC 900. Each piece is "GS" safety tested. Blade made from fully hardened, high-alloy chromium-vanadium-molybdenum steel, gun-metal finish.

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## Accessories

### General ordering data

|            |                            |                            |  |
|------------|----------------------------|----------------------------|--|
| Type       | SDIS SL 1.0X5.5X125        | Version                    |  |
| Order No.  | <a href="#">1274680000</a> | Screwdriver, Mounting tool |  |
| GTIN (EAN) | 4050118073263              |                            |  |
| Qty.       | 1 ST                       |                            |  |