

# DEUTSCH

## Einbauanleitung

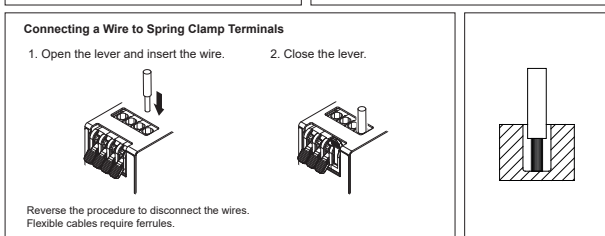
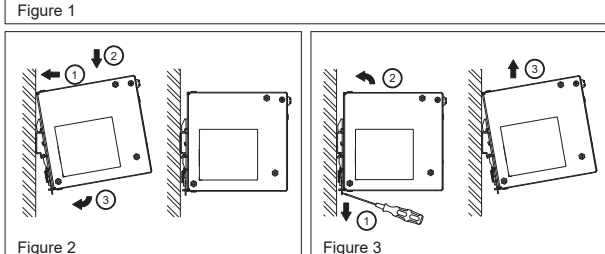
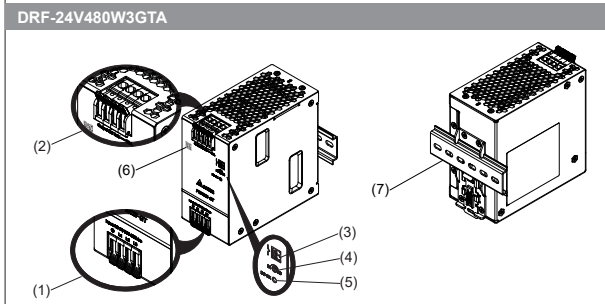
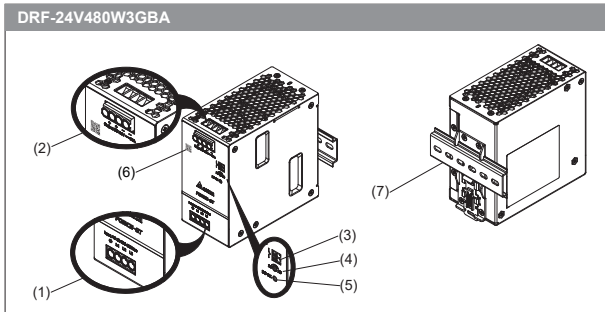


Table with 3 columns: Normal mode, Overload (hiccup mode), Output short circuit, Temperature shut down, No input power. Rows for DC OK LED (ON/OFF) and DC OK Contact (Closed/Open).

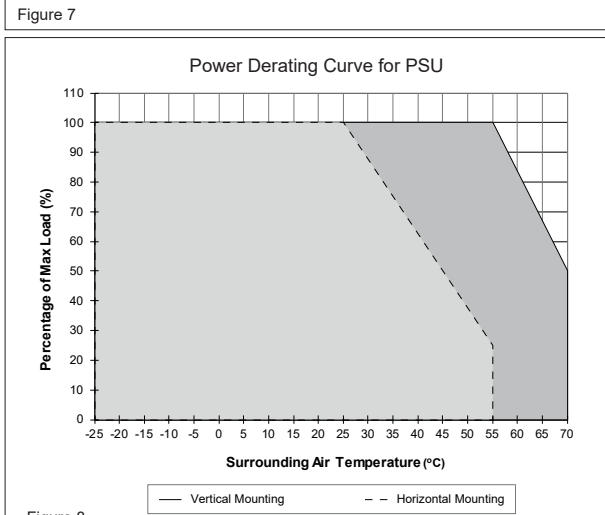
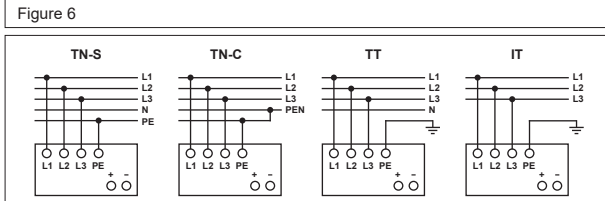


Figure 8

- 1. Sicherheitsvorschriften
• Schalten Sie die Netzspannung ab, bevor Sie das Gerät an das Netz anschließen oder es vom Netz trennen.
• Wird das Gerät anders verwendet als vom Hersteller vorgesehen, werden unter Umständen die Schutzvorrichtungen des Geräts funktionsunfähig.
• Es muss für eine ausreichende Konvektions Kühlung gesorgt werden.

### VORSICHT: „Zum Einsatz nur im Innenbereich“.

- 2. Gerätebeschreibung (Abb. 1)
(1) Eingangsklemmen (5) LED „DC OK“ (grün)
(2) Ausgangsklemmen (6) QR-Code für Produktlink
(3) DC-OK Relaiskontakt (7) Universelles Montageschienensystem
(4) Potentiometer zur Einstellung der DC-Ausgangsspannung

- 3. Montage und demontage (Abb. 2, Abb. 3)
Das Netzteil kann auf 35 mm DIN-Schienen gemäß EN 60715 montiert werden.
Jedes Gerät wird installationsfertig geliefert.
1. Kippen Sie das Gerät leicht nach oben und setzen Sie es auf die DIN-Schiene auf.

### 4. Anschluss

Table 1: Cable specifications including Flexibel / Starr, Anzugsmoment, and Absisolierlänge for different cable types.

Bitte sorgen Sie dafür, dass die Kabel vollständig in die Anschlussklemmen eingeführt werden, siehe Abb. 5. Die Schraubklemmen müssen sicher befestigt und alle Drahtlitzten in die Klemmen eingeführt sein, um einen sicheren und maximalen Kontakt sicherzustellen.

Gemäß IEC/EN/UL/CSA 62368-1 und IEC/EN/UL/CSA 61010-2-201 sind für flexible Kabel Aderendhülsen erforderlich.

### 4.1. Anschluss der Eingangsklemmen (Abb. 1 (1), Abb. 7)

Das Gerät verfügt über eine interne, nicht austauschbare Sicherung am L1, L2 und L3-Pin. Es wurde geliefert und zugelassen mit handelsüblichen Sicherungen von 20 A (UL) und 16 A (IEC) ohne weitere Schutzvorrichtungen.

Die interne Sicherung darf nicht vom Anwender ausgetauscht werden. Schicken Sie das Gerät im Falle eines Defekts zur Reparatur zum Hersteller zurück.

### 4.2. Anschluss der Ausgangsklemmen (Abb. 1 (2))

Verwenden Sie die Schraubklemmen „+“ und „-“, um den 24 Vdc-Anschluss herzustellen. Am Ausgang stehen 24 Vdc zur Verfügung. Die Ausgangsspannung kann am Potentiometer zwischen 24 und 28 Vdc eingestellt werden.

### 4.3. Ausgangskennlinie

### 4.4. Anzeigen und Relaiskontakte (Abb. 6)

### 4.5. Temperaturverhalten (Abb. 8)

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## Technische Daten

Technical specifications table including input/output parameters, safety, and environmental data. Input: 3 x 380-500 Vac, 50-60 Hz. Output: 24 Vdc ± 2%. Efficiency: 94.0%.

Table 1: Cable specifications table with columns for Flexibel / Starr, Anzugsmoment, and Absisolierlänge. Includes data for DRF-24V480W3GBA, DRF-24V480W3GTA, and DRF-24V480W3GTA.

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## Installation notes

- 1. Safety instructions
• Switch main power off before connecting or disconnecting the device. Risk of explosion!
• If the unit is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.
• To guarantee sufficient convection cooling, please refer to the following instructions to ensure sufficient clearance around the device.

### CAUTION: “FOR USE IN A CONTROLLED ENVIRONMENT”.

- 2. Device description (Fig. 1)
(1) Input terminal block connector (5) DC OK LED (green)
(2) Output terminal block connector (6) QR code for product link
(3) DC OK relay contact (7) Universal mounting rail system
(4) DC voltage adjustment potentiometer

3. Mounting and dismounting (Fig. 2, Fig. 3)
The power supply unit can be mounted on 35 mm DIN rails in accordance with EN 60715. For Vertical Mounting, the device should be installed with input terminal block on the bottom. For Horizontal Mounting, the device should be installed with input terminal block on the left side.

4. Connection
The terminal block connectors allow easy and fast wiring.
You can use flexible (stranded wire) or solid cables with the following cross sections:

Table 1: Cable specifications table with columns for Refer to Fig. 1, Stranded / Solid, Torque, and Stripping Length. Includes data for DRF-24V480W3GBA, DRF-24V480W3GTA, and DRF-24V480W3GTA.

Please ensure that the wires are fully inserted into the connecting terminals as shown in Fig. 5. All wire strands must be fully inserted into the terminals with the screws securely fastened in order to ensure safety and maximum contact.

In accordance to IEC/EN/UL/CSA 62368-1 and IEC/EN/UL/CSA 61010-2-201, flexible cables require ferrules. Use appropriate copper cables that are designed to sustain operating temperature of:

- At least 75°C for ambient < 25°C
At least 90°C for ambient < 70°C.

4.1. Input connection (Fig. 1 (1), Fig. 7)
Use the L1, L2, L3 and PE connections of input terminal connector (see Fig. 1 (1)) to establish the 3 x 380-500Vac connection. Fig. 7 shows the connection to the various network types.

The unit is protected with internal fuse (not replaceable) at L1, L2 and L3 pins, which have been tested and approved on 20A (UL) and 16A (IEC) branch circuits without additional protection device. An external protection device is only required if the supplying branch has an ampacity greater than above. Thus, if an external protective device is necessary, or, utilized, a minimum value of 10A B- or 4A C-characteristic breaker should be used.

4.2. Output connection (Fig. 1 (2))
Use the “+” and “-” screw connections to establish the 24Vdc connection. The output provides 24Vdc. The output voltage can be adjusted from 24 to 28Vdc on the potentiometer. The green LED DC OK displays correct function of the output (Fig. 1 (5)). The device has a short circuit and overload protection and an over voltage protection limited to < 35Vdc.

4.3. Output characteristic curve
The device functions normal under operating line and load conditions. In the event of an over load (Iu = 110-150%) the output voltage will start to droop and bounce until over load has been removed. If the loads are in short circuit, the secondary voltage will bounce and recover once the short circuit has been removed.

4.4. Indicators and relay contacts (Fig. 6)

4.5. Thermal behavior (Fig. 8)
If the output capacity is beyond what is recommended in Fig. 8, the device will run into thermal protection by switching off i.e. device will go in bouncing mode and will recover when ambient temperature is lowered or load is reduced as far as necessary to keep device in working condition.

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## Technical data

Table with 2 columns: Input (AC), Output (DC). Input: Nominal input voltage and frequency 3 x 380-500Vac / 50-60Hz. Output: Nominal output voltage 24Vdc ± 2%. Efficiency: 94.0%.

