CONNECTION AND SETTING GUIDE

General
The DC-DC converter RXTUG 22H is primarily intended for auxiliary voltage supply of electronic circuit. It is suitable for the use when moderate voltage power is required, e.g. for the supply of protective relays and automatic control equipment. The connections to RXTUG 22H are made using COMBIFLEX 10 A terminal sockets on wires 0.5-1.5 mm² into the terminal bases. See connection Terminal diagram on rating plate and fig. 1.

Features, technical data and tests
- Input voltage ($U_1$) 24-250 V dc ± 20%
- Selectable output voltages ($U_2$) ± 12 or ± 18 or ± 24 V dc
- Galvanically separated inputs and outputs
- Can be loaded symmetrical or unsymmetrical with up to 15 W continuously and 20 W during 5 minutes
- Built-in relay monitors the output voltage
- Change over contact with current capacity 5A continuously and 15A during 1 s
- Protected against wrong polarity on the input voltage
- Protected against short-circuiting of the output
- In service indication with a green LED

Electromagnetic disturbance test

<table>
<thead>
<tr>
<th>Test</th>
<th>Severity</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surge immunity test</td>
<td>1 and 2 kV, normal service 2 and 4 kV, withstand test</td>
<td>IEC 61000-4-5, class 3 IEC 61000-4-5, class 4</td>
</tr>
<tr>
<td>AC injection test</td>
<td>500 V, AC</td>
<td>SS 436 15 03, PL 4</td>
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<tr>
<td>Power frequency magnetic field immunity</td>
<td>1000 A/m</td>
<td>IEC 61000-4-8</td>
</tr>
<tr>
<td>1 MHz burst test</td>
<td>2,5 kV</td>
<td>IEC 60255-22-1, class 3</td>
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<tr>
<td>Spark test</td>
<td>4-8 kV</td>
<td>SS 436 15 03, PL 4</td>
</tr>
<tr>
<td>Fast transient test</td>
<td>4 kV</td>
<td>IEC 60255-22-4, class 4</td>
</tr>
</tbody>
</table>

Electrostatic discharge test
- In normal service with cover on
  - 8 kV, contact discharge
  - 15 kV, air discharge
  - 8 kV, indirect application
  - IEC 60255-22-2, class 4
  - IEC 60255-22-2, class 4
  - IEC 60255-22-2, class 4
  - IEC 61000-4-2, class 4

Radiated electromagnetic field test | 10 V/m, 26-1000 MHz | IEC 61000-4-3, Level 3 |
Conducted electromagnetic test     | 10 V, 0,15-80 MHz   | IEC 61000-4-6, Level 3 |
Interruptions in auxiliary voltage | 2-200 ms            | IEC 60255-11            |

Electromagnetic emission

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<tr>
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<th>Severity</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conducted</td>
<td>0,15-30 MHz, class A</td>
<td>EN 50081-2</td>
</tr>
<tr>
<td>Radiated emission</td>
<td>30-1000 MHz, class A</td>
<td>EN 50081-2</td>
</tr>
</tbody>
</table>
SETTING INSTRUCTIONS

Observe: RXTUG 22H is normally supplied for an output voltage of ±24 V dc

Setting instruction for the different output voltages $U_2$

1. Put on ESD wrist band
2. Remove the cover from RXTUG 22H
3. Remove and place the jumpers in position 1 for ±12 V dc or in position 2 for ±18 V dc according to fig. 2
4. Mark and paste the level according to the selected output voltage
5. Mount the cover back to the RXTUG 22H

Fig. 1  Terminal diagram  Fig. 2  The part of the PCB showing the position of the jumpers

Please note that it is not possible to get the different voltage levels for + and - by placing the jumpers in two different position. Both the jumpers must be in the position as it is shown in fig. 2

Ordering No. 1MRK 000 592-A