

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 \pm 20%

Selectable output voltages (U_2) \pm 12 or \pm 18 or \pm 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

Test	Severity	Standard
Surge immunity test	1 and 2 kV, normal service	IEC 61000-4-5, class 3
	2 and 4 kV, withstand test	IEC 61000-4-5, class 4
AC injection test	500 V, AC	SS 436 15 03, PL 4
Power frequency magnetic field immunity	1000 A/m	IEC 61000-4-8
1 MHz burst test	2,5 kV	IEC 60255-22-1, class 3
Spark test	4-8 kV	SS 436 15 03, PL 4
Fast transient test	4 kV	IEC 60255-22-4, class 4
Electrostatic discharge test - In normal service with cover on	8 kV, contact discharge	IEC 60255-22-2, class 4
	15 kV, air discharge	IEC 60255-22-2, class 4
	8 kV, indirect application	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

Test	Severity	Standard
Conducted	0,15-30 MHz, class A	EN 50081- 2
Radiated emission	30-1000 MHz, class A	EN 50081- 2

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

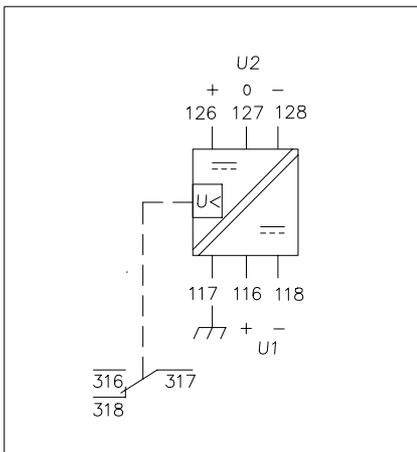


Fig. 1 Terminal diagram

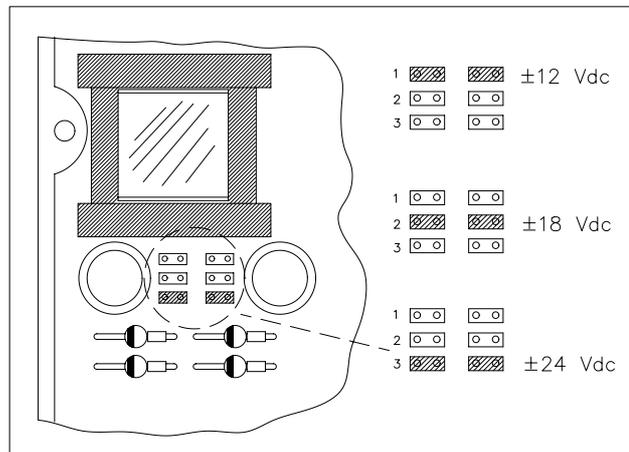


Fig. 2 The part of the PCB showing the position of the jumpers

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

ABB Network Partner AB

S-721 71 Västerås
Sweden

Tel +46 21 321300

Fax +46 21 146918