Module Description

ABB
ASEA BROWN BOVERI

PROCONTROL 44
Transfer

Termination Module
for Station-Bus

GKWE 705 172 E, edition 10/88

88 TB01/R0100/R0200

Application

The termination module for station-bus is used within the PROCONTROL multi-purpose processing station.

It serves to terminate the station-bus on both sides with the correct characteristic impedance. Two termination modules are needed for each station-bus.

Description

In addition to the signal line for serial data telegrams, the station-bus consists of a number of other lines for control and management signals. Every line must be correctly terminated. To this end, resistors are provided on the module, via which the signal lines are connected with the operating voltage UD+.

The module consists of a printed circuit board and a connector. This connector serves to plug the module into the station-bus backplane. The voltage UD+ is supplied via tab terminals.

The module is available in two versions (see also "Functional diagram" and "Mechanical design").

88 TB01/R0100:
In this version, the main power supply is not redundant. Therefore, jumper 5 - 6 must be installed on the printed circuit board in place of the relay.

88 TB01/R0200:
In this version, the main power is supplied in redundant form from two separated voltage sources.

Also a small relay K1 with a changeover contact is provided on the module. Soldering link 5 - 6 must be removed in this version.
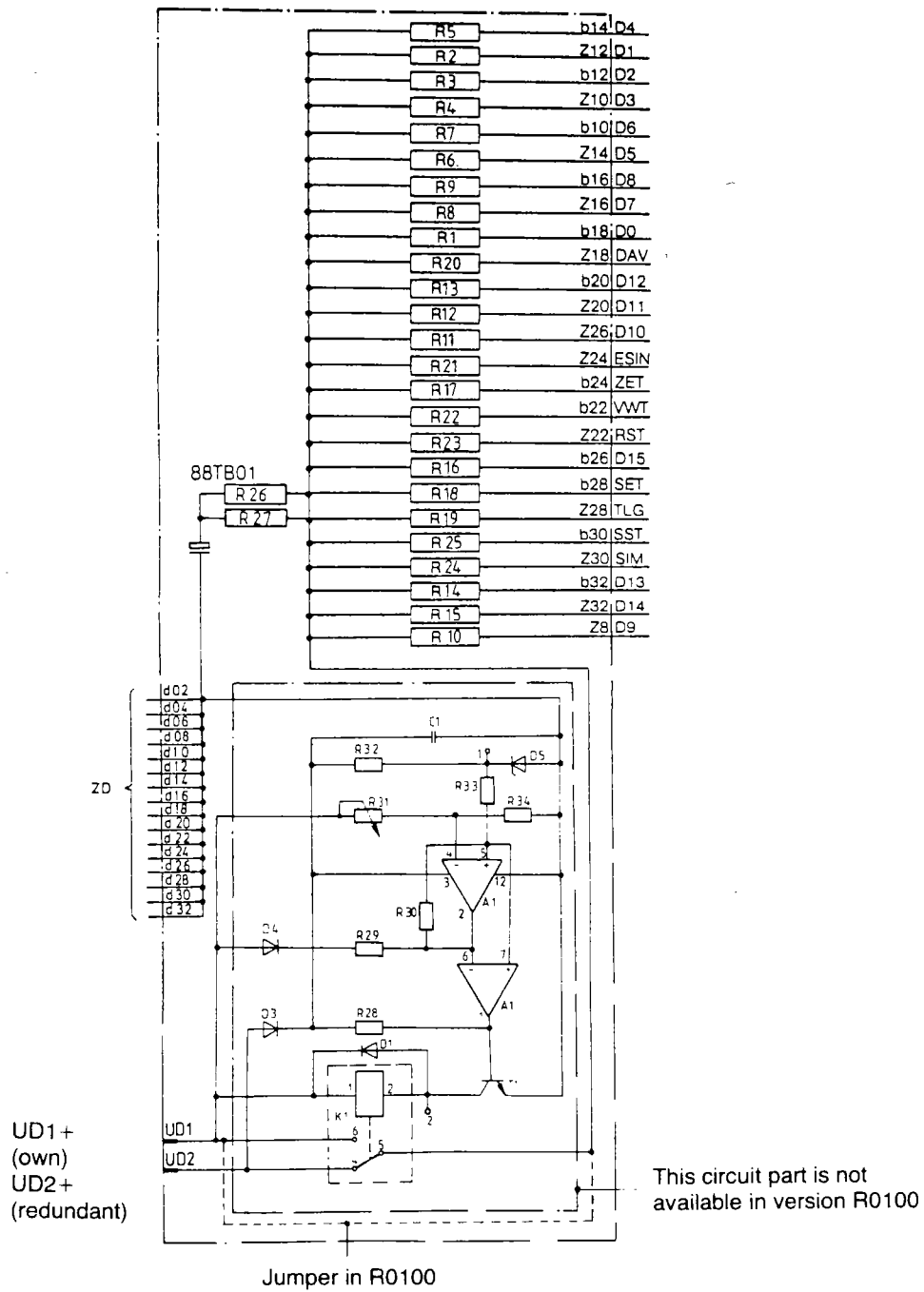
This version is employed when the station-bus management function is duplicated by the use of two control modules 88 TV01.

In the functional diagram, the circuit part with relay that is only available in version R0200 is enclosed by a dash-dotted line.

The following table shows how the two versions are equipped.

Version	Jumper	Relay
R0100	x	
R0200		x

Functional diagram

88TB01

R 26
R 27

R5   b14 D4
R2   Z12 D1
R3   b12 D2
R4   Z10 D3
R7   b10 D6
R6   Z14 D5
R9   b16 D8
R8   Z16 D7
R1   b18 D0
R20   Z18 DAV
R13   b20 D12
R12   Z20 D11
R11   Z26 D10
R21   Z24 ESIN
R17   b24 ZET
R22   b22 VWT
R23   Z22 RST
R16   b26 D15
R18   b28 SET
R19   Z28 TLG
R25   b30 SST
R24   Z30 SIM
R14   b32 D13
R15   Z32 D14
R 10   Z8 D9

ZD

d02
d04
d06
d08
d10
d12
d14
d16
d18
d20
d22
d24
d26
d28
d30
d32

C1
R32   D5
R33 R34
R31
R30 A1
D4 R29
A1
D3 R28
D1
K1

UD1+
(own)
UD2+
(redundant)

UD1
UD2

This circuit part is not
available in version R0100

Jumper in R0100
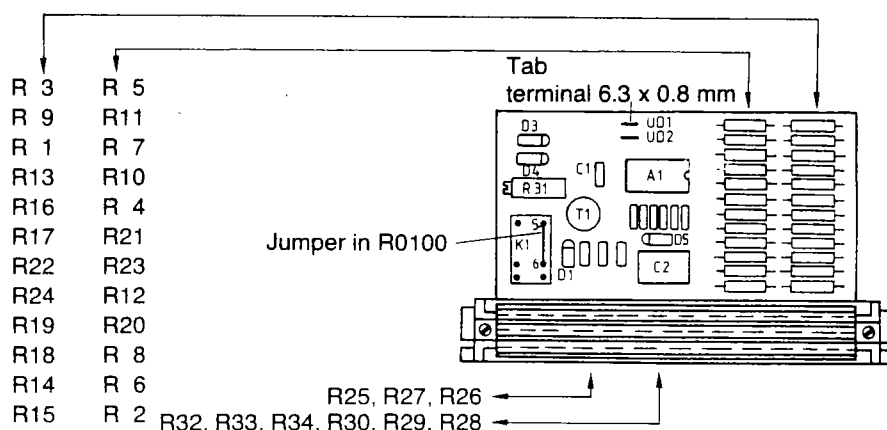
Mechanical design

Board size: 8.3 cm x 6.3 cm

Connector: according to DIN 41 612
                   48-pole, edge-connector type F

Weight: approx. 0.11 kg

Technical data

POWER SUPPLY

Operating voltage bus section	$UD+ = + 5$ V
Current consumption	$I_D = 0.4$ A
Power dissipation typ.	$P_v = 2$ W
Reference potential bus section	$ZD = 0$ V

CONNECTED SIGNAL LINES

The following signal lines are summarized in the module descriptions of the modules of the multi-purpose processing station (input/output modules) under the designation "Standard interface SS".

D0-D15	Data lines (for management)
DAV	Data valid
ESIN	Event (common annunciation)
ZET	Central clock (2 MHz)
VWT	Management
RST	Reset
SET	Send/receive clock (1 MHz)
TLG	Serial data telegram
SST	Common disturbance annunciation
SIM	Data simulated

ORDERING DATA

Type designation: 88 TB01/R0100   Order number: GJR2356600R0100
                  88 TB01/R0200   GJR2356600R0200

Technical data are subject to change without notice!

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