3.2 Power supply Unit 07 NG 61 R1

Input voltage: 110/220 V AC, output voltages: 5 V DC/4 A, 24 V DC/1.5 A

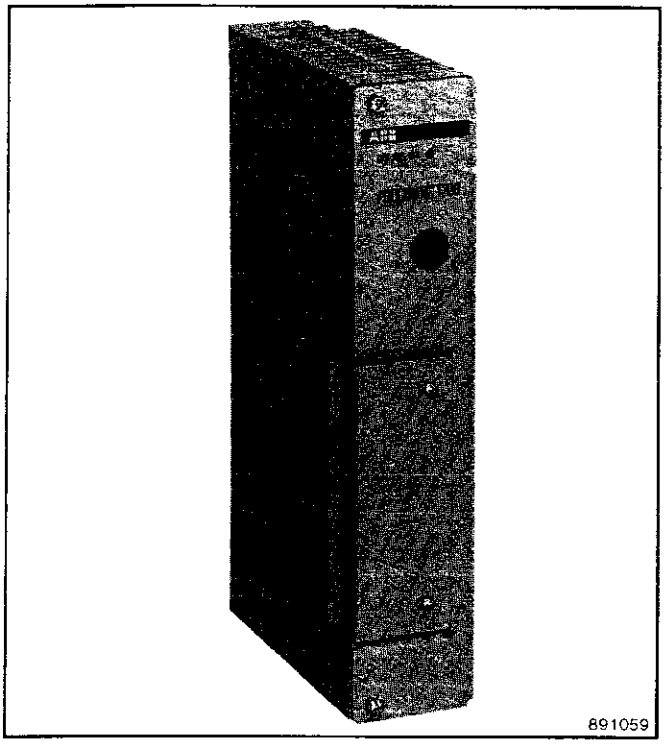

Fig. 3.2.1: Power supply unit 07 NG 61

The power supply unit 07 NG 61 generates the internal voltages 5 V/4 A and 24 V/1.5 A required for the PLC. It is supplied by an input voltage of 220 V AC or 110 V AC alternatively. In order to select the input voltage plug the jumper into the respective position (see Fig. 3.2.2).

07 NG 61 is short-circuit-proof and includes an over-voltage protection. A green LED indicates that the power supply unit is in operation.

In addition, the operation state of the central unit is allocated to a relay (RUN-contact), i.e. as long as the central unit is in the RUN state, the contact of the relay is closed. The RUN-contact only indicates the state of the central unit, when the power supply unit is mounted in the basic subrack, i.e. RUN-contacts of power supply units in expansion subracks are permanently open.

Technical Data

Input voltage	selectable
UN2	110 V AC (+ 20 %, – 22 %)
UN1	220 V AC (+ 20 %, – 22 %)
frequency	47 Hz ... 63 Hz
Output voltages (system internal voltages)	
UB1	5 V DC (– 1 % ... + 5 %)
UB4	24 V DC (0 % ... + 30 %)
short-circuit-proof	yes
Output load capability	
UB1 = 5 V DC	max. 4.0 A
UB4 = 24 V DC	max. 1.5 A
Electrical isolation	between input voltage and output voltages, between output voltages
Nominal insulation voltage, process terminals versus subrack and output voltages:	
acc. VDE 0160	250 V AC
tested with	1500 V AC
Power consumption	max. 150 VA
Power dissipation	max. 22.4 W
Conductor cross section of process terminals	
L1, N	max. 1.5 mm^2
PE (protective earth)	max. 2.5 mm^2
Buffered voltage interruption time	$\geq$ 20 ms
Supply-side fuse	slow 5 A

Specification RUN-contact		
switching voltage		4.5 V ... 264 V, AC or DC
switching current		max. 2 A min. 1 mA at 5 V DC
switching power,	if AC is switched	max. 0.5 kVA
	if DC is switched	max. 50 W
contact lifetime		≥ 20,000 cycles at max. load
mechanical contact lifetime		≥ 10^6 cycles
contact protection against arcing		no (only resistive load is permitted)
bounce time		≤ 4 ms
Indication of operating		one green LED
Number of required slots		1 NG slot

Ability of fitting in subracks

BT			BE-central			BE-remote		
NG	ZE	I/O	NG	BV	I/O	NG	BV	I/O
●			●			●		

slots, ● = plug-in is possible

Weight	1 kg
Order number of module 07 NG 61 R1	GJV3074311R1

Block Diagram

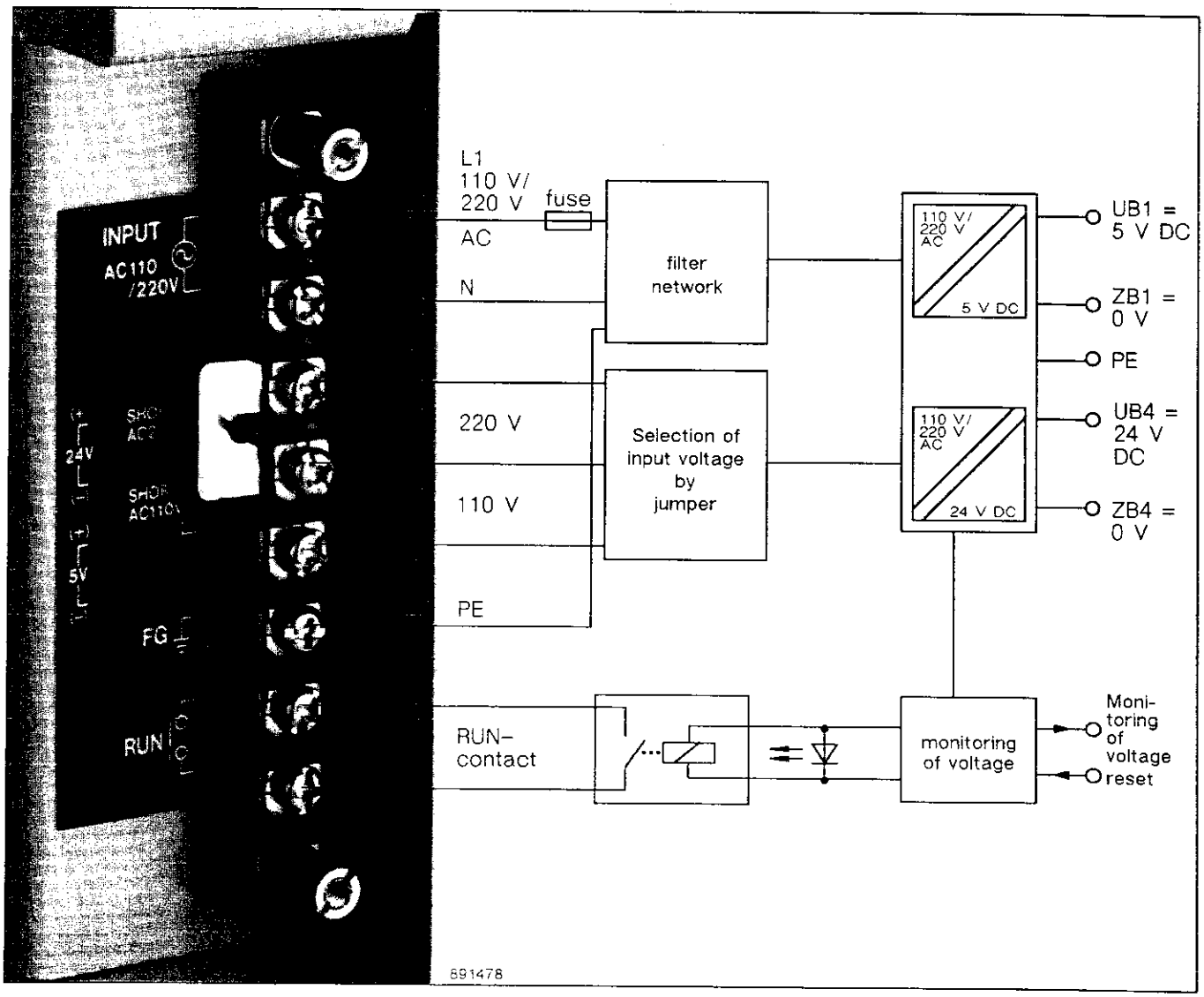

Fig. 3.2.2: Block diagram 07 NG 61 R1