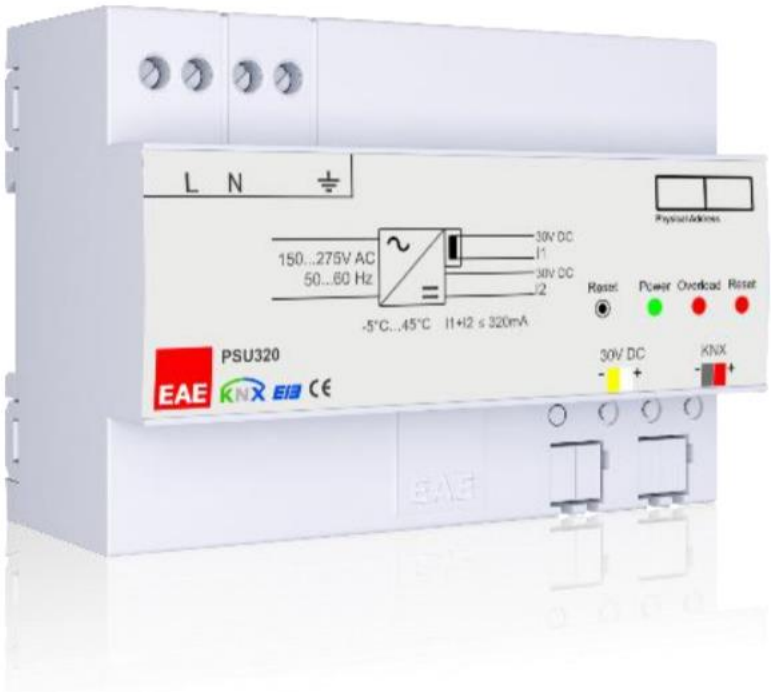
EAE KNX POWER SUPPLY

Product Manual PS640/320



Order Number: 48023 – 640
Order Number: 48023 – 320

Content

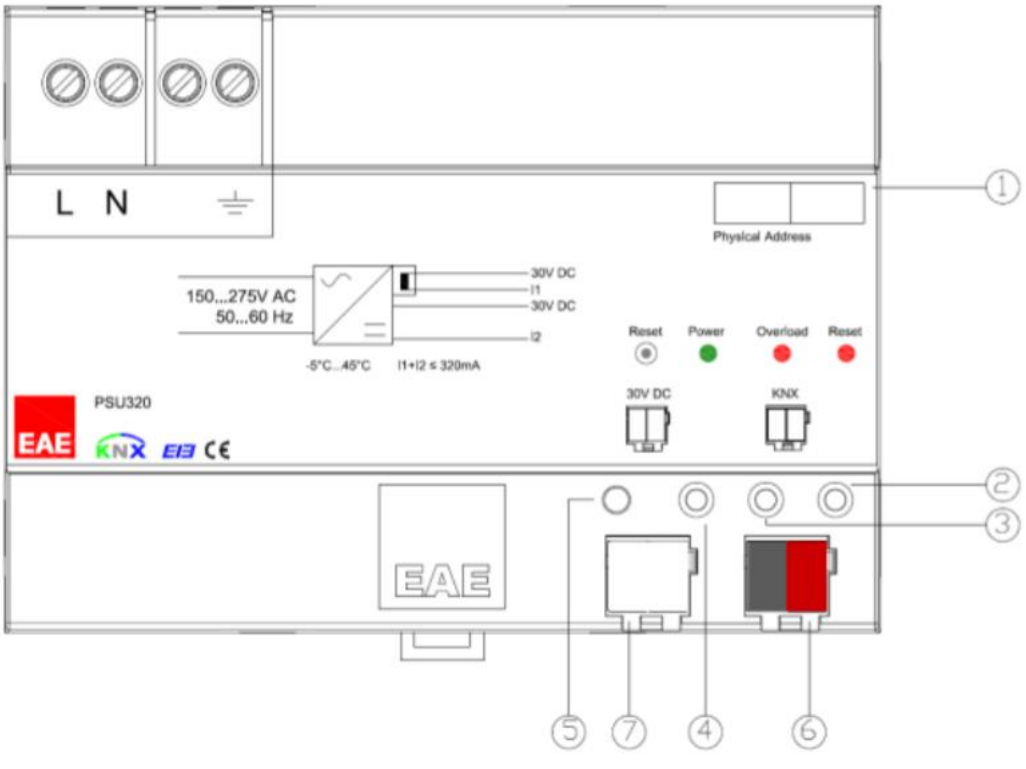
1 General

EIB / KNX power supply produces EIB / KNX bus system voltage. KNX bus line is decoupled from the power supply with an integrated choke.

The power supply is connected to the bus line with a bus connection terminal. A reset is triggered by pressing the reset push button and lasts 20 seconds (regardless of the duration of the push button action). As soon as the reset initialized, the bus line disconnects from the power supply and the devices connected to this KNX bus line return to their initial state. If the line should be disconnected for a longer period, the bus connection terminal must be removed from the power supply.
A 30V DC auxiliary voltage is made available via an additional connection terminal.
This voltage can be used to supply a further bus line, NOT KNX (in connection with a separate choke).

2 Device Technology

2.1 Connection Diagram



Connection Diagram

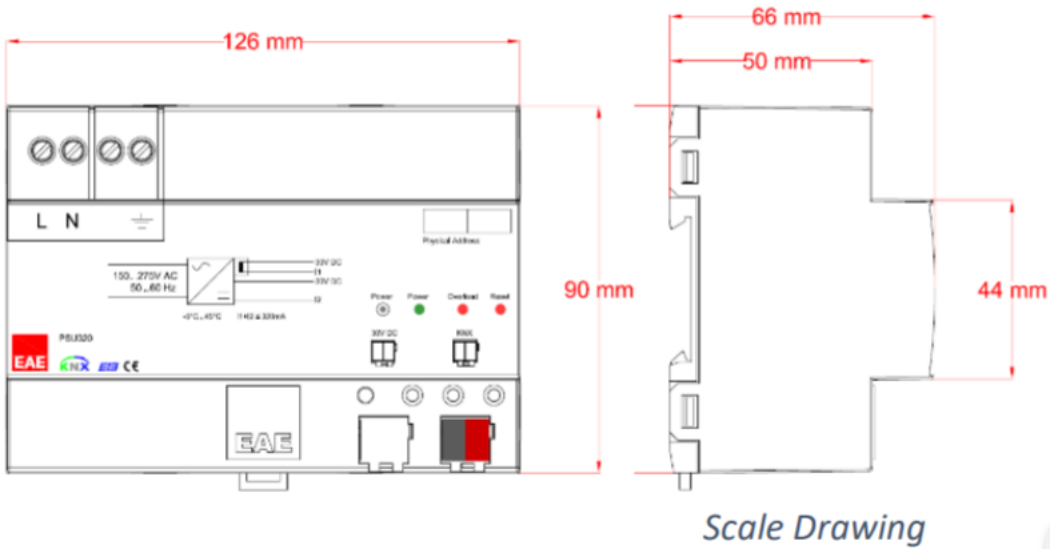
1. Physical Address Label
2. Reset LED
3. Overload LED
4. Power LED
5. Reset Button
6. Voltage Output 1 (KNX)
7. Voltage Output 2 (AUX)

2.2 Technical Data

Type of protection	IP 20	EN 60 529
Safety class	II	EN 61 140
Insulation category	Overvoltage category	III EN 60 664-1
	Pollution degree	2 EN 60 664-1
Main supply	Input Voltage	150-275V AC, 50-60Hz
	Power consumption PS320	11,5 W
	Power consumption PS640	22 W
	Power loss PS320	2 W
	Power loss PS640	3,6 W
Connections	Screw terminals	0,2–5,3 mm² solid stranded wire 0,2 – 5,3 mm² stranded wire with ferrule
	Max torque	0.78 Nm
	KNX	Bus connect terminal (Red/Black)
Output	Output 1	KNX bus
		30 VDC +1/-2 V, SELV ((integrated choke)
	Output 2	30 VDC +1/-2 V, SELV (without choke)
	Short-circuit current PS320	1 A
	Short-circuit current PS640	1,5 A
Installation	35mm mounting rail	EN 60 715
Operating elements	Power (green)	ON: Input voltage and KNX voltage is OK.
	Overload (red)	ON: Overload or short-circuit.
	Reset button and LED (red)	ON: Reset in progress. Press reset button. No power on KNX bus for 20 s. After reset, rest LED will turn off.
Temperature range	Ambient	-5° C + 45° C
	Storage	-25° C + 55° C
Humidity	max. air humidity	95 % no moisture condensation
Dimensions		60 x W x 90 mm
	Width G (mm)	126 mm
	Width G (unit)	7 modules (18 mm module)
Weight	PS320	0.28 kg
	PS640	0,29 kg
Box	Plastic, polycarbonate, colour grey	
CE	In accordance with the EMC guideline and low voltage	

NOTE: Device has no KNX physical address since it is a power supply.

2.3 Dimensions



2.4 Normal Operation State

After the device is properly installed, switch on the mains voltage. If the power LED (green) is “ON” and all other LEDs are “OFF”, the device is functioning correctly.