MDT Bus Power Supply

MDT Power Supply, MDRC

Version		
STC-0640.01	Bus Power Supply with diagnosis function	4SU MDRC, 640mA
STC-0960.01	Bus Power Supply with diagnosis function	6SU MDRC, 960mA
STC-1280.01	Bus Power Supply with diagnosis function	6SU MDRC, 1280mA

The MDT KNX Power Supply with integrated choke supplies the KNX Bus with a constant, stabilized 30VDC voltage. The integrated bus coupling unit with diagnosis function monitors the bus voltage, bus current, bus overload and bus voltafe failure/return. All events are stored with time stamp in the internal ring buffer. The ring buffer can be read out by a 14Byte telegram.

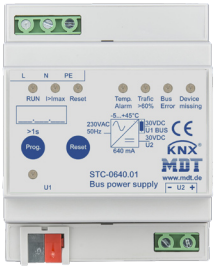
The current operating status is indicated via 8 colored LED on top of the device:

- RUN (green LED) : Normal operation
- I>Imax (red LED): Overcurrent
- Reset (redLED: Reset is active
- Temp. Alarm (red LED):Overtemperature
- Traffic > 60% (red LED): Overload KNX bus
- Bus error (red LED): Bus failure, collision of telegrams and not acknowledged telegrams
- Device Missing (red LED): Missing KNX device
- Prog. (red LED): Programming mode

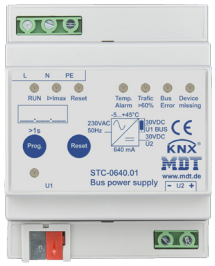
All devices are overload safe and have a choke free output.

The MDT KNX Power Supply is a modular installation device for fixed installation in dry rooms. It fits on DIN 35mm rails in power distribution boards or closed compact boxes.

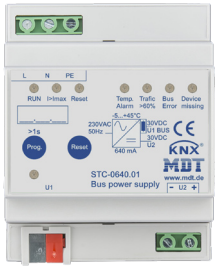
STC-0640.01



STC-0960.01



STC-1280.01



- Production in Germany, certified according to ISO 9001
- KNX power supply with integrated choke
- Mains voltage 230VAC
- **Short-circuit-proof**
- **Overload safe**
- With additionally choke free output
- **Integrated bus coupling unit with diagnosis function:**
  - Bus voltage, bus current, bus overload
  - Bus voltage failure/return
  - All events are stored with time stamp in a ring buffer
  - Read out of the ring buffer by 14Byte telegram
  - Safety functions to detect a failed device in the KNX line
- Modular installation device for DIN 35mm rails
- Integrated bus coupling unit
- 3 years warranty

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Stand: 0316

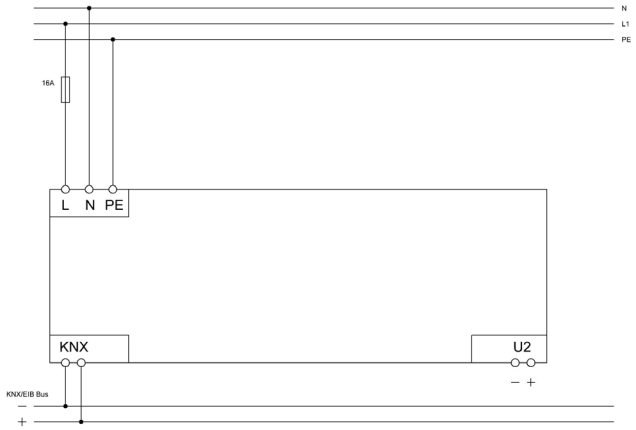
MDT Bus Power Supply

Technical Data	STC-0640.01	STC-0960.01	STC-1280.01
Voltage	230VAC/50Hz	230VAC/50Hz	230VAC/50Hz
Supply voltage	30VDC	30VDC	30VDC
KNX output voltage	30VDC	30VDC	30VDC
Choke free output voltage	30VDC	30VDC	30VDC
Current			
Nominal current	640mA	960mA	1280mA
Continuous current	960mA	1280mA	1600mA
Peak current	1200mA	1600mA	1900mA
Max. total current of both outputs*	900mA	1300mA	1600mA
Efficiency at nominal load typ.**	> 85%	> 87%	> 89%
Power loss no load operation typ.	< 1,0W	< 1,0W	< 1,0W
Specification KNX interface	TP-256	TP-256	TP-256
Available application software	ETS 4/5	ETS 4/5	ETS 4/5
Permitted wire gauge			
Screw terminal	0,5 - 4,0mm² solid core 0,5 - 2,5mm² finely stranded	0,5 - 4,0mm² solid core 0,5 - 2,5mm² finely stranded	0,5 - 4,0mm² solid core 0,5 - 2,5mm² finely stranded
KNX busconnection terminal	0,8mm Ø, solid core	0,8mm Ø, solid core	0,8mm Ø, solid core
Operation temperature range	0 to + 45°C	0 to + 45°C	0 to + 45°C
Overvoltage category	III	III	III
Enclosure	IP 20	IP 20	IP 20
Dimensions MDRC (Space Units)	4TE	6TE	6TE

* At higher total currents the red LED I>Imax lights up.

** Efficiency before choke

Examplary circuit diagram STC-0640/940/1280.01



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