

**MDT Power Supply, MDRC**

Version		
STV-160.02	Power Supply	2SU MDRC, 160mA
STV-320.02	Power Supply	2SU MDRC, 320mA
STV-640.02	Power Supply	4SU MDRC, 640mA

The MDT KNX Power Supply with integrated choke produces the stabilized KNX system voltage (30VDC) to supply the connected KNX/EIB components. The operating status is indicated via 3 LED:

- Red LED: Reset of the KNX/EIB bus
- Green LED: Normal operation, no faults
- Yellow LED: KNX/EIB bus overload

Once the fault has been rectified, the Power Supply restarts itself.

Additionally the Power Supply STV-640.02 offers a choke free output.

The Power Supplies have following safety functions:

- Electronic short\_circuit and overload protection
- Temperature control with shutdown at over temperature

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.

STV-160.02



STV-320.02



STV-640.02



- Production in Germany, certified according to ISO 9001
- KNX power supply with integrated choke
- Mains voltage 230VAC
- **Short-circuit-proof**
- **Overload protection**
- **Temperature control with shutdown at over temperature**
- LED indicator for bus reset, normal operation and bus overload
- 3 years warranty

Technical Data	STV-160.02	STV-320.02	STV-640.02
<b>Voltage</b>			
Supply voltage	230VAC/50Hz	230VAC/50Hz	230VAC/50Hz
KNX output voltage	30VDC SELV	30VDC SELV	30VDC SELV
Choke free output voltage	--	--	30VDC SELV
<b>Current</b>			
Nominal current	160mA	320mA	640mA
Continuous current	240mA	480mA	960mA
Peak current	320mA	640mA	1200mA
Max. total current of both outputs	--	--	1000mA
<b>Efficiency at nominal load typ.*</b>	> 82%	> 85%	> 87%
<b>Power loss no load operation typ.</b>	< 0,45W	< 0,45W	< 0,75W
<b>Overvoltage category</b>	III	III	III
<b>Permitted wire gauge</b>			
Screw terminal (max. 0,5Nm tightening torque)	0,5 - 4,0mm <sup>2</sup> solid core 0,5 - 2,5mm <sup>2</sup> finely stranded	0,5 - 4,0mm <sup>2</sup> solid core 0,5 - 2,5mm <sup>2</sup> finely stranded	0,5 - 4,0mm <sup>2</sup> solid core 0,5 - 2,5mm <sup>2</sup> finely stranded
KNX busconnection terminal	0,8mm Ø, solid core	0,8mm Ø, solid core	0,8mm Ø, solid core
<b>Operation temperature range</b>	0 to + 45°C	0 to + 45°C	0 to + 45°C
<b>Enclosure</b>	IP 20	IP 20	IP 20
<b>Dimensions MDRC (Space Units)</b>	2SU	2SU	4SU

\* Efficiency before choke

## Exemplary circuit diagram STV-320.02

