

# KNX Switch mode power supplies



Building and house automation



Automation for blinds and shutters





**KNX power supply with 30 V DC output - 640 mA**

- Output 30 V DC 640 mA, KNX Bus
- Diagnostic LEDs
- 72 mm wide (4 modules)
- 35 mm rail (EN 60715) mount
- Suitable for ETS 4 (or latest versions)

78.2K  
Screw terminal



**NEW** 78.2K.1.230.3000



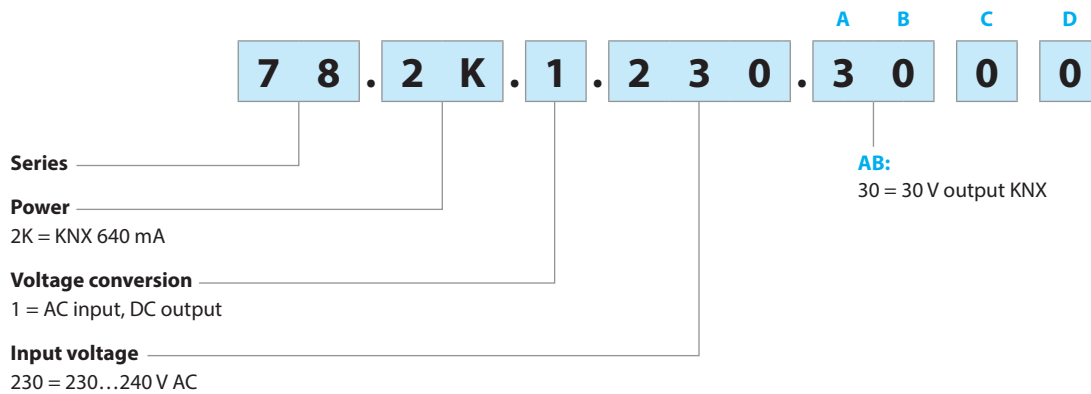
- Thermal protection, overload protection and short-circuit protection
- Two power supplies can be installed 15 meters apart

For outline drawing see page 6


Output specification		
Output current	mA	640
Output voltage	V	30
Input specification		
Nominal voltage (U <sub>N</sub> )	V AC	230...240
Operating range	V AC	185 - 260
Stand-by power consumption	W	1.45
Power factor		0.62
Max current consumption	A	0.25
Technical data		
Minimum distance between power supplies	m	15
Dielectric strength between input/output	V AC	3000
Ambient temperature range	°C	-5/+45
Protection category		IP 20
<b>Approvals</b> (according to type)		<b>CE UK CA</b>

## Ordering information

Example: 78 series, KNX switch mode power supply, 640 mA output, 230...240 V AC input.













## Technical data

EMC specifications (according to EN 61204-3)		Reference standard	78.2K
Electrostatic discharge	contact discharge	EN 61000-4-2	4 kV
	air discharge	EN 61000-4-2	8 kV
Radiated electromagnetic field	80...1000 MHz	EN 61000-4-3	10 V/m
	1...2.8 GHz	EN 61000-4-3	3 V/m
Fast transients (burst 5/50 ns, 5 and 100 kHz)	HBES terminals	EN 61000-4-4	1 kV
	on supply terminals	EN 61000-4-4	2 kV
Voltage pulses on supply terminals (surge 1.2/50 µs)	DM supply terminals	EN 61000-4-5	1 kV
	CM supply terminals	EN 61000-4-5	2 kV
	HBES terminals	EN 61000-4-5	2 kV
Radio-frequency common mode voltage (0.15...230 MHz)	HBES terminals	EN 61000-4-6	10 V
	on supply terminals	EN 61000-4-6	10 V
Short interruptions	criterion A	EN 61000-4-11	10 cycles
Radio-frequency conducted emissions	0.15...30 MHz	EN 55022	class B
Radiated emissions	30...1000 MHz	EN 55022	class B
<b>Terminals</b>			<b>Max</b>
Wire size (Solid cable, stranded cable)	mm <sup>2</sup>	1 x 4 / 2 x 2.5	
	AWG	1 x 12 / 2 x 14	
 Screw torque	Nm	0.8	
Wire strip length	mm	9	
<b>Other data</b>			
Power lost to the environment with rated output current	W	4.8	

DM: differential mode

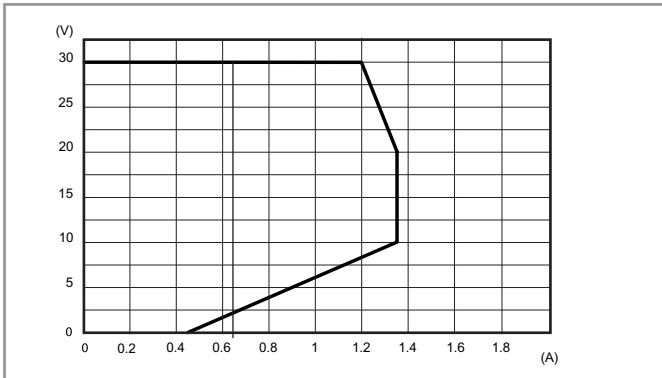
CM: common mode

LED table

Type	Area	State	LED	OUTPUT
78.2K.1.230.3000	CHECK START UP	$V_{out}$ OK	 • OFF • OFF	ON
		$V_{out}$ LOW < 29V	 • OFF • OFF	OFF
		$V_{out}$ HIGH > 33V	• OFF  • OFF	OFF
	NORMAL FUNCTION	$V_{out}$ OK $I_{out}$ > 0.9A	 • OFF 	ON
		$V_{out}$ < 29V $I_{out}$ > 0.9A	• OFF • OFF 	ON
	 Alarm condition: $T_{amb} > 45^{\circ}\text{C}$ @ $I_{nom}$ .	Pre-alarm: up to 60s	 • OFF 	ON
		Latched alarm	• OFF • OFF 	OFF

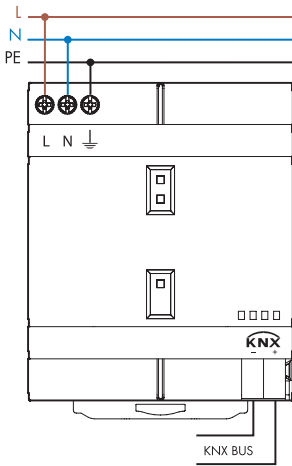
## Output specification

FB78-6 Output voltage v output current (78.2K)



Overload diagram, KNX approved

## Wiring diagram



## Outline drawings

Type 78.2K  
Screw terminal

