

30 V Power Supplies, 1 phase



30 V power supplies, 1 phase

3 A, 100 W

Suitable for UL class 2 circuits

LED operation indicator


Suitable for Safety and standard Masters/Gateways with the option
"1 Gateway, 1 Power Supply for 2 ASi networks, inexpensive power supplies"



(figure similar)

optimized for use in ASi-5 networks



| Figure | Power supply ⁽¹⁾ | Input voltage | Output voltage | Output current | Nominal power | Data decoupling coils ⁽²⁾ | Protection rating | Article No. |
|---|---|--------------------------|-----------------|----------------|---------------|--------------------------------------|-------------------|---------------|
|  | 30 V power supply, optimized for ASi-5/ASi-3, NEC class 2 | 100 ... 240 VAC, 1 phase | 30 ... 31.2 VDC | 3 A | 100 W | integrated in the gateway | IP20 | BW4223 |

(1) ASi power supply:

Special power supplies with integrated data decoupling unit for use in ASi-3 only networks. Suitable for all Bihl+Wiedemann ASi-3 gateways and safety monitors.

30 V power supply, optimized for ASi-5/ASi-3, NEC class 2:

The 30 V/3 A power supply is **UL certified (according to UL 508)**, has power limitation <100 W and is designed for use in **NEC class 2** networks. It is suitable for applications with 1 power supply per ASi network. In the case of power intensive applications, Bihl+Wiedemann recommends the use of a 30 V power supply without 100 W power limitation in combination with a power limitation module (BWU4189) for each ASi network.

The power supply is optimized for use with ASi-5/ASi-3 gateways and safety monitors with integrated decoupling coils (version "1 power supplies, 1 gateway for 2 ASi networks, inexpensive power supplies") and with all 24 V ASi-5/ASi-3 gateways.

In order to avoid interferences in ASi-5 communication, Bihl+Wiedemann recommends the use of power supplies optimized for ASi-5/ASi-3.

(2) Integrated in the power supply:

Data decoupling is performed in the special ASi power supply with integrated data decoupling unit. ASi gateways and safety monitors missing their own, integrated data decoupling unit require a special ASi power supply for each ASi network.

Integrated in the gateway:

Bihl+Wiedemann ASi gateways and safety monitors with integrated data decoupling unit (version "1 power supply, 1 gateway for 2 ASi networks, inexpensive power supplies") can be operated with an inexpensive 30 V standard power supply.

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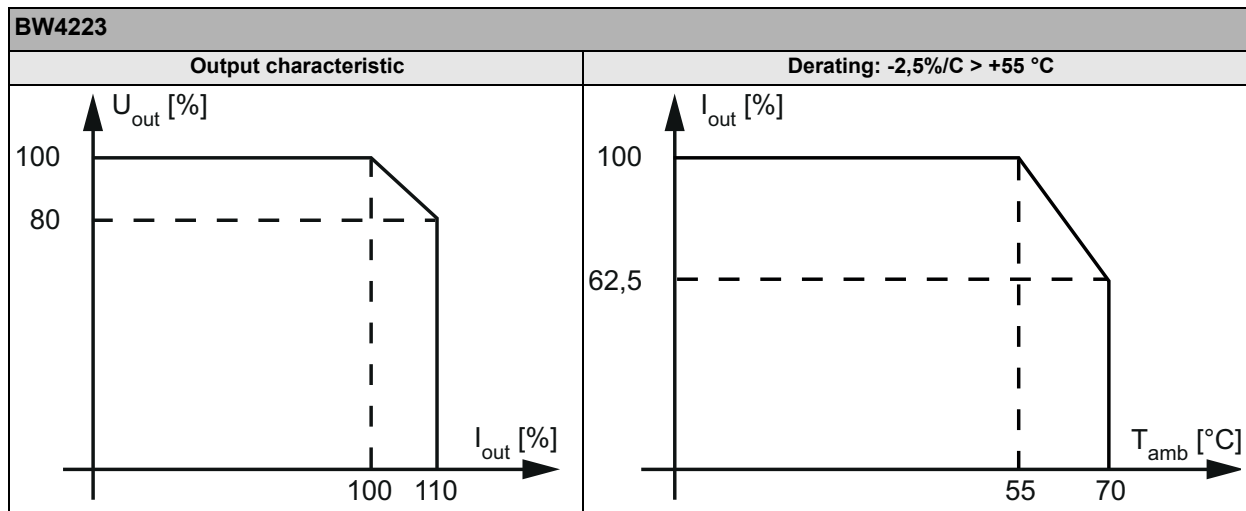


| | |
|---|--|
| Article No. | BW4223 |
| Input | |
| Nominal voltage | 100 ... 240 V _{AC} |
| Voltage range | 85 ... 264 V _{AC} |
| Voltage derating | -2.5%/V _{AC} < 95 V _{AC} |
| Frequency range | 47 ... 63 Hz |
| Nominal current (nominal load) | 1.81 A at 100 V _{AC} ; 0.91 A at 230 V _{AC} |
| Inrush current limitation | < 20 A, NTC |
| Turn-on time | 0.10 s at 100 V _{AC} ; 0.32 s at 230 V _{AC} |
| Mains buffer time | 13 ms at 100 V _{AC} ; 100 ms at 230 V _{AC} |
| Recommended power circuit breaker (characteristics) | 6 A, 10 A, 16 A (B, C) |
| Surge voltage protection (varistor) | yes |
| Output | |
| Nominal voltage | 31 V _{DC} |
| Voltage range | 30 ... 31.2 V _{DC} |
| Direct current | 3 A |
| Nominal power | < 100 W |
| Current limitation (typical) | 3.3 A, short-circuit and open-circuit proof |
| Parallel operation | no |
| Serial operation | yes (no class II) |
| Power losses (stand-by/nominal load) | 2.3 W/14 W |
| Max. power losses | 15 W at 264 V _{AC} /30.5 V/3 A |
| Efficiency (typical) | 88% |
| Ripple (typical) | < 20 mV _{ss} |
| Resistance to reverse feed | max. 35 V _{DC} |
| Protection against internal surge voltage | max. 40 V _{DC} |
| Display | |
| LED POWER (green) | U _{out} > 28,5 V _{DC} , relay contact "DC OK" closed |
| Connection | |
| Input/output | push-in terminals |
| Nominal cross section input | 0.2 ... 2.5 mm ² (AWG 24 ... 12) |
| Nominal cross section output | 0.2 ... 2.5 mm ² (AWG 24 ... 12) |
| Nominal cross section DC OK | 0.2 ... 2.5 mm ² (AWG 24 ... 12) |

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| | |
|---|--|
| Article No. | BW4223 |
| Environment | |
| Applied standards | EN 61010-1, UL 61010-1 EN 61010-2-201, UL 61010-2-201 EN 60335-1 IEC 60364-4-41 (DIN VDE 0100-410) EMV acc. EN 61204-3 CE acc. 2014/30/EU |
| UL reference number | PM-0130-030-0 |
| Operating altitude | max. 2000 m |
| Ambient temperature | -25 °C ... +70 °C (no condensation permitted) |
| Storage temperature | -25 °C ... +85 °C |
| Housing | plastic, for DIN rail mounting |
| Required mounting distance (left/right) | – |
| Required mounting distance (over/under) | 50 mm |
| Protection class acc. EN 61140 | I |
| Overvoltage category | III |
| Pollution degree | 2 |
| Protection category acc. EN 60529 | IP20 |
| Weight | 390 g |
| Dimensions (W / H / D in mm) | 52 / 90 / 111 |





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