



### Basic features

<b>Approval/Conformity</b>	CE EAC cURus cULus WEEE
<b>Basic standard</b>	EN 61204
<b>Series</b>	Standard
<b>Short description</b>	Switching power supply
<b>Version</b>	DIN rail

### Electrical connection

<b>Connection</b>	0.25 mm <sup>2</sup> ...4 mm <sup>2</sup> 0.5 mm <sup>2</sup> ...10 mm <sup>2</sup>
<b>Interconnected operation type</b>	Parallel wiring: not possible Series wiring: max. 2 devices
<b>Short-circuit protection</b>	synchronizing

### Electrical data

<b>Derating</b>	-3.5 %/°C +61 °C
<b>Efficiency typ.</b>	92 %
<b>Hold-up time</b>	≥ 20 ms at 400 V AC
<b>Input fuse</b>	T 2 A (3x)
<b>Input voltage</b>	400...500 V AC 3-phase
<b>Input voltage</b>	340...575 V AC 480 V DC...575 V AC
<b>Input/output insulation voltage</b>	3000 V AC
<b>Inrush current</b>	≤ 12 A at 400 V AC
<b>Isolation resistance</b>	≥ 100 MOhm
<b>Load control</b>	±1 % single
<b>Output power max.</b>	120 W
<b>Output voltage</b>	24 VDC
<b>Output voltage, tolerance</b>	+1 %
<b>Protection class</b>	I
<b>Rated input current</b>	360 mA at 400 V AC
<b>Rated output current</b>	5 A
<b>Residual ripple max.</b>	100 mV
<b>Setting range</b>	24...28 V DC
<b>Settling time</b>	2 ms
<b>Switching frequency</b>	70000 Hz
<b>Turn-on time max.</b>	1 s

Switching Power Supplies  
**BAE PS-XA-3Y-24-050-020**  
Order Code: BAE0115

**BALLUFF**

Voltage control	1 %
Working frequency	47...63 Hz

**Functional safety**

MTTF (40 °C)	65 a
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**Environmental conditions**

Ambient temperature	-25...80 °C
Contamination scale	2
Cooling	Free convection
EN 60068-2-27, Shock	15 g, 11 ms, xyz-axis, 6 surfaces (3x)
EN 60068-2-6, Vibration	2 g, 10...500 Hz, xyz-axis, 60 min
Over temperature	protected
Protection degree	IP20
Relative humidity	20...95 %, non-condensing
Storage temperature	-25...85 °C
Temperature coefficient max.	±0.03 %/K

**Material**

Housing material	Metal
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**Mechanical data**

Dimension	50 x 121 x 117.3 mm
Mounting	DIN rail mount
Weight	0.66 kg

**Remarks**

Values measured at +25 °C and full load.

For more information about MTTF and B10d see MTTF / B10d Certificate

Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

**Wiring Diagrams**

