



Basic features

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

Electrical connection

Connection	0.25 mm ² ...4 mm ² 0.5 mm ² ...10 mm ²
Interconnected operation type	Parallel wiring: max. 3 devices Series wiring: max. 2 devices
Short-circuit protection	synchronizing

Electrical data

Derating	-3.5 %/°C > +61 °C
Efficiency typ.	92 %
Hold-up time	≥ 15 ms at 400 V AC
Input fuse	T 5 A (3x)
Input voltage	400...500 V AC 3-phase
Input voltage	340...575 V AC 480...820 V DC
Input/output insulation voltage	3000 V AC
Inrush current	≤ 35 A at 400 V AC
Isolation resistance	≥ 100 MOhm
Load control	±5 % parallel ±1 % single
Output capacity max.	960 W
Output voltage	24 VDC
Output voltage, tolerance	+1 %
Protection class	I
Rated input current	1.72 A at 400 V AC
Rated output current	40 A
Residual ripple max.	80 mV
Setting range	24...28 V DC
Settling time	2 ms
Switching frequency	50000 Hz

Switching Power Supplies
BAE PS-XA-3Y-24-400-023
Order Code: **BAE0118**

BALLUFF

Turn-on time max.	1 s
Voltage control	1 %
Working frequency	47...63 Hz

Functional safety

MTTF (40 °C)	43 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
IP rating	IP20
Over temperature	protected
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	255 x 121 x 117.3 mm
Mounting part	DIN rail mount
Weight	2.60 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

