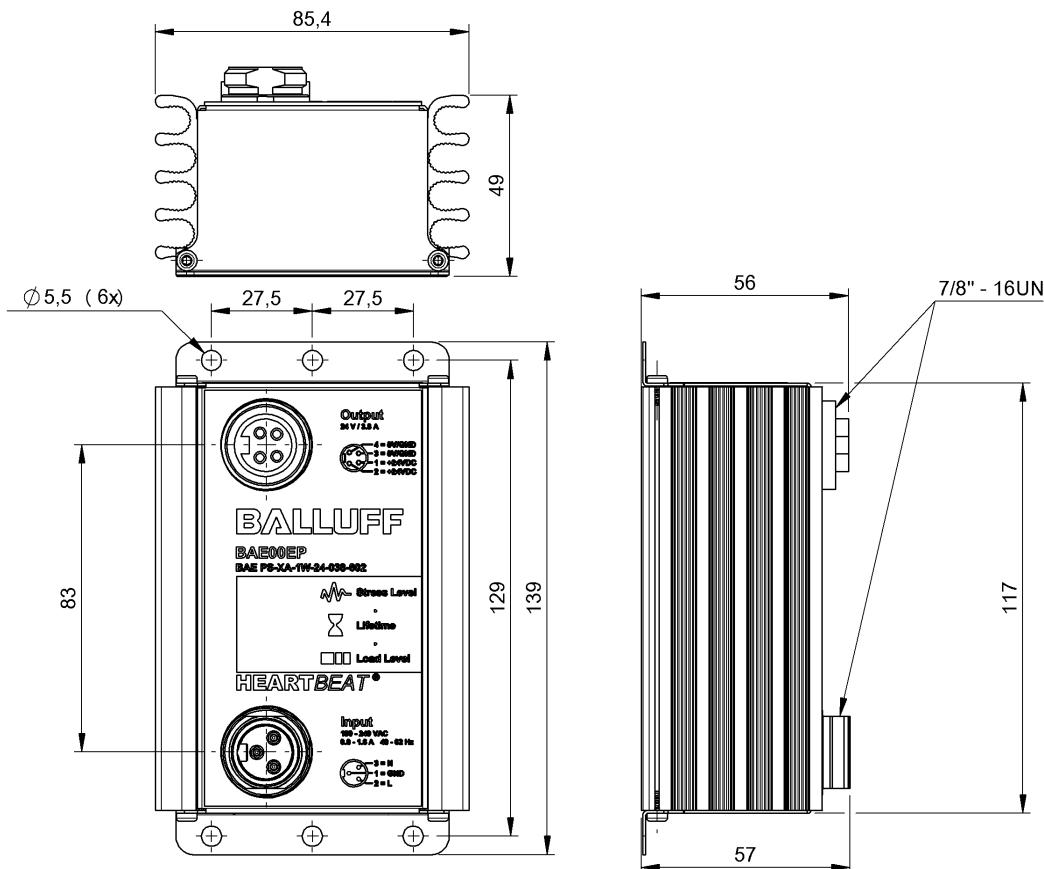


Switching Power Supplies  
BAE PS-XA-1W-24-038-602  
Order Code: BAE00EP

**BALLUFF**



## Basic features

Approval/Conformity	CE cURus WEEE
Basic standard	EN 61204
Series	Heartbeat
Short description	Switching power supply
Version	IP67

## Electrical connection

Connection (supply voltage IN)	7/8"-Male
Connection (supply voltage OUT)	7/8"-Female
Connector supply voltage IN, type	Male
Connector supply voltage OUT, style	7/8"
Connector supply voltage OUT, type	Female
Interconnected operation type	Parallel wiring: not possible Series wiring: max. 2 devices
Polarity reversal protected	yes
Short-circuit protection	continuous short circuit protection

## Electrical data

Derating	-2.5 %/°C >+60 °C
Display	Lifetime Load Level Stress Level
Efficiency typ.	91 %
Hold-up time	≥ 100 ms at 230 V AC ≥ 25 ms at 115 V AC
Input fuse	T 6.3 A internal
Input voltage	90...254 V AC
Input/output insulation voltage	3000 V AC
Inrush current	≤ 30 A
Isolation resistance	≥ 100 MΩ
Load control	±1 %
Output capacity max.	91.2 W
Output current max.	6 A for max. 4s
Output voltage	24 VDC
Output voltage, tolerance	-1...3 %
Power boost	150 %
Power boost, duration max.	4 s
Protection class	II
Rated input current	1.6 A at 100 V AC 800 mA at 240 V AC
Rated output current	3.8 A

Residual ripple max.	1 %
Settling time	1 ms
Switching frequency	140000 Hz
Turn-on time max.	1 s
Voltage control	±1 %
Working frequency	48...62 Hz

#### Functional safety

MTTF (40 °C)	53.9 a
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#### Material

Housing material	Aluminium
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#### Environmental conditions

Ambient temperature	-25...70 °C
Contamination scale	3
Cooling	Free convection
IP rating	IP67, with connector
IP rating IEC 60529 (connector)	IP67 with connector
Over temperature	protected
Relative humidity	100 %
Storage temperature	-25...85 °C
Temperature coefficient max.	±0.03 %/K

#### Mechanical data

Casting	PUR
Dimension	85.4 x 57 x 139 mm
Mounting part	Flange mounting
Weight	1.00 kg

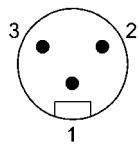
#### Remarks

Values measured at +25 °C and full load.

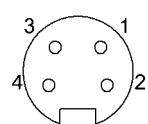
For more information about MTTF and B10d see MTTF / B10d Certificate

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.

#### Connector Drawings



Power IN



Power Out

PIN 1: GND

PIN 1: +24V

PIN 2: L

PIN 2: +24V

PIN 3: N

PIN 3: 0V / GND

PIN 4: 0V / GND