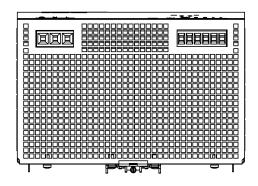
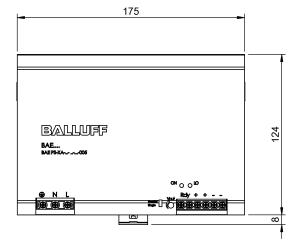
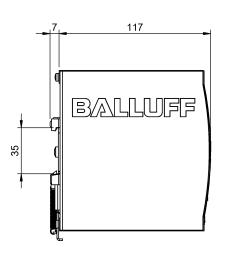
BAE PS-XA-1W-48-100-005

Order Code: BAE003M

















Basic features

Approval/Conformity CE

CCC cULus WEEE

EN 61204 Basic standard Standard

Short description Switching power supply

Version DIN rail

Electrical connection

Connection 0.25...4 mm²

Interconnected operation type Parallel wiring: max. 3 devices Adjacent installation: not allowed

Short-circuit protection Forward characteristic

Electrical data

Derating -2.5 %/°C > +56 °C

Display DC LOW DC ON Efficiency typ. 90 %

≥ 30 ms at 115 V AC Hold-up time

≥ 25 ms at 230 V AC

Input fuse T 10 A Input voltage 120...375 V DC

90...264 V AC Input/output insulation voltage 3000 V AC

≤ 25 A at 115 V AC Inrush current ≤ 50 A at 230 V AC

Isolation resistance ≥ 100 MOhm Load control ±5 % parallel ±1 % single

480 W Output capacity max. 48 VDC Output voltage Output voltage, tolerance +1 % Protection class

2.5 A at 230 V AC Rated input current 4.9 A at 115 V AC

Rated output current 10 A Residual ripple max. 100 mV

Switching Power Supplies

BAE PS-XA-1W-48-100-005 Order Code: BAE003M



Setting range $47...55 \, \text{V DC}$ Settling time $2 \, \text{ms}$ Switching frequency $60000 \, \text{Hz}$ Turn-on time max. $1 \, \text{s}$ Voltage control $1 \, \%$ Working frequency $47...63 \, \text{Hz}$

Functional safety

MTTF (40 °C) 59 a

Material

Housing material Metal

Environmental conditions

Ambient temperature -40...70 °C

Contamination scale 2

Cooling Free convection

IP rating IP20
Over temperature protected

Relative humidity 20...95 %, non-condensing

 $\begin{array}{lll} \mbox{Storage temperature} & -40...85 \ ^{\circ}\mbox{C} \\ \mbox{Temperature coefficient max.} & \pm 0.03 \ \%/\mbox{K} \\ \end{array}$

Mechanical data

Dimension 175.5 x 124.5 x 116.6 mm

Mounting part DIN rail mount

Weight 1.92 kg

Remarks

Values measured at +25 °C and full load.

In parallel operation the load must be in a range of 10%-90% of the maximum load. The cable routing for the load must be symmetrical.

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 Vo + N Vo Vo Vo -

Subject to change without notice: 164693



