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We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!


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## Baby SilverLine with 2.5 A

## SL2.100



## Data sheet

## Input

Input voltage
AC100-120/220-240 V (switchable), 47-63 Hz (85-132 VAC / 176-264 VAC, 160-375 VDC, see also „Output: Continuous Loading")

Quasi-Wide-Range Input: With the switch in the 230 V position the pow-er-supply unit operates at low and moderate loads at any input voltage between 95 and 264 V AC (see 'Output' at the right side).
Note: At DC input, always leave the switch in the 230 V position
\(\left.\begin{array}{ll}Input current \& <1.3 \mathrm{~A} (switch in 115 \mathrm{~V} position) <br>

\& <0.7 \mathrm{~A} (switch in 230 \mathrm{~V} position)\end{array}\right\}\)\begin{tabular}{ll}

DC input current \& | typ. 5.3 mA at $110 \mathrm{VDC}, 3.9 \mathrm{~mA}$ at 300 VDC |
| :--- |
| (preserves battery sources) | <br>

| Inrush current | typ. 25 A at 264 V AC and cold start |
| :--- | :--- | <br>


| Unit is internally fused (fuse not accessible). For external fusing of unit |
| :--- | :--- |
| and for input line protection, use circuit breaker with B-characteristic | <br>

10A or slower action, or alternatively T10A HBC fuse.
\end{tabular}

EN 61000-3-2 (harmonic current emissions) is fulfilled

| Transient <br> handling | Transient resistance acc. to VDE 0160 / W2 <br> $(750 \mathrm{~V} / 1.3 \mathrm{~ms})$, for all load conditions. |
| :--- | :--- |
| Hold up time | $>20 \mathrm{~ms}$ at $196 \mathrm{VAC}, 24 \mathrm{~V} / 2.5 \mathrm{~A}$ <br> (see Diagram overleaf) |
|  |  |

## Efficiency, Reliability etc.*

| Efficiency | typ. $87.5 \%$ | $(230 \mathrm{VAC}, 24 \mathrm{~V} / 2.5 \mathrm{~A})$ |
| :--- | :--- | :--- |
| Losses | typ. 8.6 W | $(230 \mathrm{VAC}, 24 \mathrm{~V} / 2.5 \mathrm{~A})$ |
| MTBF | $740,000 \mathrm{~h} \mathrm{acc}$. to Siemensnorm SN 29500 |  |
|  | $\left(24 \mathrm{~V} / 2.5 \mathrm{~A}, 230 \mathrm{VAC}, \mathrm{T}_{\mathrm{amb}}=+40^{\circ} \mathrm{C}\right)$ |  |

Life cycle (electrolytics) The unit exclusively uses longlife electrolytics, specified for $+105^{\circ} \mathrm{C}$ (cf. 'The SilverLine', p.2).

## Output



## Start / Overload Behaviour

| Startup delay | typ. 0.1 s <br> ca. $5-20 \mathrm{~ms}$, depending on load |
| :--- | :--- |
| Rise time | Overload Behaviour <br> - Special PULS Over- |
| load Design (see <br> diagram overleaf) | no disconnection, no hiccup if overloaded <br> high overload current (up to $1.5 \mathrm{I}_{\text {Nom }}$ ), Vout <br> rent. |

Advantages:

- High short-circuit current, giving large 'start-up window': unit starts reliably even with awkward loads (DC-DC converters, motors).
- No 'sticking' such as can occur with fold-back characteristics
- Secondary fuses operate reliably


## Order information

## Order number

## Description

(Basic version*)
( $\mathrm{N}+1$ redundancy*)
(Screw mounting set, two needed per unit)

## Construction / Mechanics*

Housing dimensions and Weight

- WxHxD
$49 \mathrm{~mm} \times 124 \mathrm{~mm} \times 102 \mathrm{~mm}$ (+ DIN rail)
- Free space for ventilation
- Weight above/below 25 mm recommended right 10 mm recommended (front view)

Design advantages:

- All connection blocks are easy to reach as mounted at the front panel.
- Input and output are strictly apart from each other and so cannot be mixed up (Input below, output above)
* *For further information see data sheets „The SilverLine", „SilverLine Family Branches" and mechanics data sheet

Output Current over Input Voltage (min.)


Output characteristic (min.)


Hold-up time (min.)


Unless otherwise stated, specifications are valid for AC 230 V input voltage, $+25^{\circ} \mathrm{C}$ ambient temperature, and 5 min. run-in time. They are subject to change without prior notice.


