

1-PHASE AS-INTERFACE FOR DIN RAIL, SILVERLINE SERIES

SLA3.100

AS-i power supply 30,5VDC, 2,8 A

- Output current 2.8, 4 and 8 A
- 115/230 V AC
- IR addressing mode
- Overload protection with electronic fuse (SLA8)
- Earth fault monitoring via relay (SLA4)



PRODUCT DESCRIPTION

The power supply units supply the AS-Interface system with power via the yellow AS-Interface cable. Communications between the various slaves are modulated and are embedded in the power supply's output voltage. A special power supply is therefore required that does not filter out the data information. **The IR addressing mode** is selectable via a switch on the front. When the IR mode is activated, communications are disconnected on the yellow AS-Interface cable. The slaves in the loop can then be simply readdressed without physical disconnection from the interface cable. Once programming is completed, the power supply unit is connected for communications mode and data communications is restarted.

Earth fault monitoring: SLA4 has earth fault monitoring between the AS-Interface cable and earth. In the event of short circuiting between +30.5 V dc or minus to earth, the power supply unit will indicate an alarm via a relay contact and a flashing LED. The power supply unit will continue to supply power to the connected slaves when a fault is detected. The fault is acknowledged by pressing a button on the front of the unit. If a separate earth is not installed between the machine and SLA4.100, we recommend earthing the Shield input via the primary side's earth. Do not leave the Shield connection open.

Fuse mode: SLA8 has a fuse mode. In the event of a short circuit, the power supply unit will produce a high short-circuit current for a few seconds (max. 5 s). The unit will then trip its electronic fuse. A tripped fuse is indicated by a flashing LED. To reset the unit, press the reset button at the front. This function entails that unintentional restarts are prevented and the connected units are protected from damage. For more technical information, see the **general information** section at the beginning of the power supply chapter.

TECHNICAL DATA

INPUT DATA

| | |
|--|--------------------|
| Input voltage range | Auto-select |
| Input voltage ac | 100-120, 220-240 V |
| Input voltage ac min | 85 V AC |
| Input voltage ac max | 264 V AC |
| Inrush current at 230 V ac typical | 38 A |
| Inrush current at 120 V ac typical | 20 A |
| Power factor at 120 V ac, full load. Typical | 0,5 |

| | |
|--|-----|
| Power factor at 230 V ac, full load. Typical | 0,5 |
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OUTPUT DATA

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|--------------------|------------|
| Output voltage min | 30,55 V DC |
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|----------------|------------|
| Output voltage | 30,55 V DC |
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|--------------------|------------|
| Output voltage max | 30,55 V DC |
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|----------------|-------|
| Output current | 2,8 A |
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EFFICIENCY / LIFETIME / MTBF

| | |
|---|-----------|
| MTBF (IEC 61709) 230 V ac, max load, 40 ° C | 1942000 h |
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| Efficiency at 230 V ac, full load, typical | 90,5 % |
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DIMENSIONS

| | |
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| Weight | 0,5 kg |
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|-------|--------|
| Depth | 102 mm |
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|-------|-------|
| Width | 49 mm |
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|--------|--------|
| Height | 124 mm |
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OTHER

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| IP class | IP20 |
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|----------------------------|-----|
| Power consumption 120 V ac | 2 A |
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| Ripple max | 50 mV pp |
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| Power drop from +60 °C to +70 °C | 2 W/°C |
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|----------------------------------|--------|
| Temperature min without derating | -10 °C |
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| Hold time at 120 V ac, typical full load | 26 ms |
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| Series | Silverline |
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| Hold time at 230 V ac, typical full load | 26 ms |
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| Power consumption 230 V ac | 0,9 A |
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| Supply frequency | 50-60 ±6 % |
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| Approvals | CB, CE, CSA, NEC Class 2, UL |
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| Temperature max without derating | 60 °C |
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| Material protection | Aluminium |
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|-------------------|--------------|
| Type Power Supply | AS-Interface |
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