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

SLA4.100
ASI PSU 100-120/220-240V ac I/P 30.5V dc 4A O/P



- 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 earthis 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 ac	100-120, 220-240 V
Input voltage ac min	85 V AC
Input voltage ac max	264 V AC
Inrush current at 120 V ac typical	45 A
Inrush current at 230 V ac typical	50 A
Input voltage range	Auto-select
Power factor at 120 V ac, full load. Typical	0.53
Power factor at 230 V ac, full load. Typical	0.53

OUTPUT DATA

Output voltage	30.55 V DC
Output voltage min	30.5 V DC
Output voltage max	30.5 V DC
Output current	4 A

EFFICIENCY / LIFETIME / MTBF

Efficiency at 230 V ac, full load, typical	88 %
MTBF (IEC 61709) 230 V ac, max load, 40 ° C	1222000 h

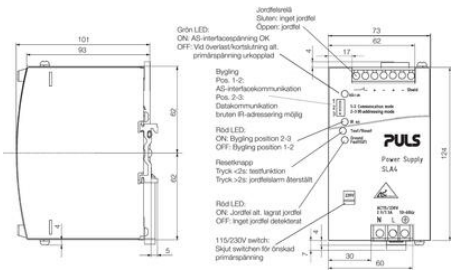
DIMENSIONS

Width	65 mm
Height	124 mm
Depth	102 mm
Weight	0.62 kg

OTHER

Approvals	CB, CE, CSA, UL
Hold time at 120 V ac, typical full load	30 ms
Hold time at 230 V ac, typical full load	30 ms
IP class	IP20
Material protection	Aluminium
Supply frequency	50-60 ±6 %
Ripple max	50 mV pp
Series	Silverline
Power consumption 120 V ac	2.7 A
Power consumption 230 V ac	1.3 A
Power drop from +60 °C to + 70 °C	3 W/°C
Temperature min without derating	-10 °C
Temperature max without derating	60 °C

Type Power Supply	AS-Interface


Jordfelsreläi
Sluten: inget jordfel
Öppen: jordfel
Grön LED:
ON: AS-interfacespänning OK
OFF: Vid överlast/kortslutning alt. primärspänning urkopplad
Bygling
Pos. 1-2:
AS-interfacekommunikation
Pos. 2-3:
Datakommunikation
brutten IR-adressering möjlig
Röd LED:
ON: Bygling position 2-3
OFF: Bygling position 1-2
Resetknapp
Tryck <2s: testfunktion
Tryck >2s: jordfelslarm återställt
Röd LED:
ON: Jordfel alt. lagrat jordfel
OFF: inget jordfel detekterat
115/230V switch:
Skjut switchen för önskad primärspänning
Power Supply
SLA4
101
93
73
62
17
4
124
30
60
5