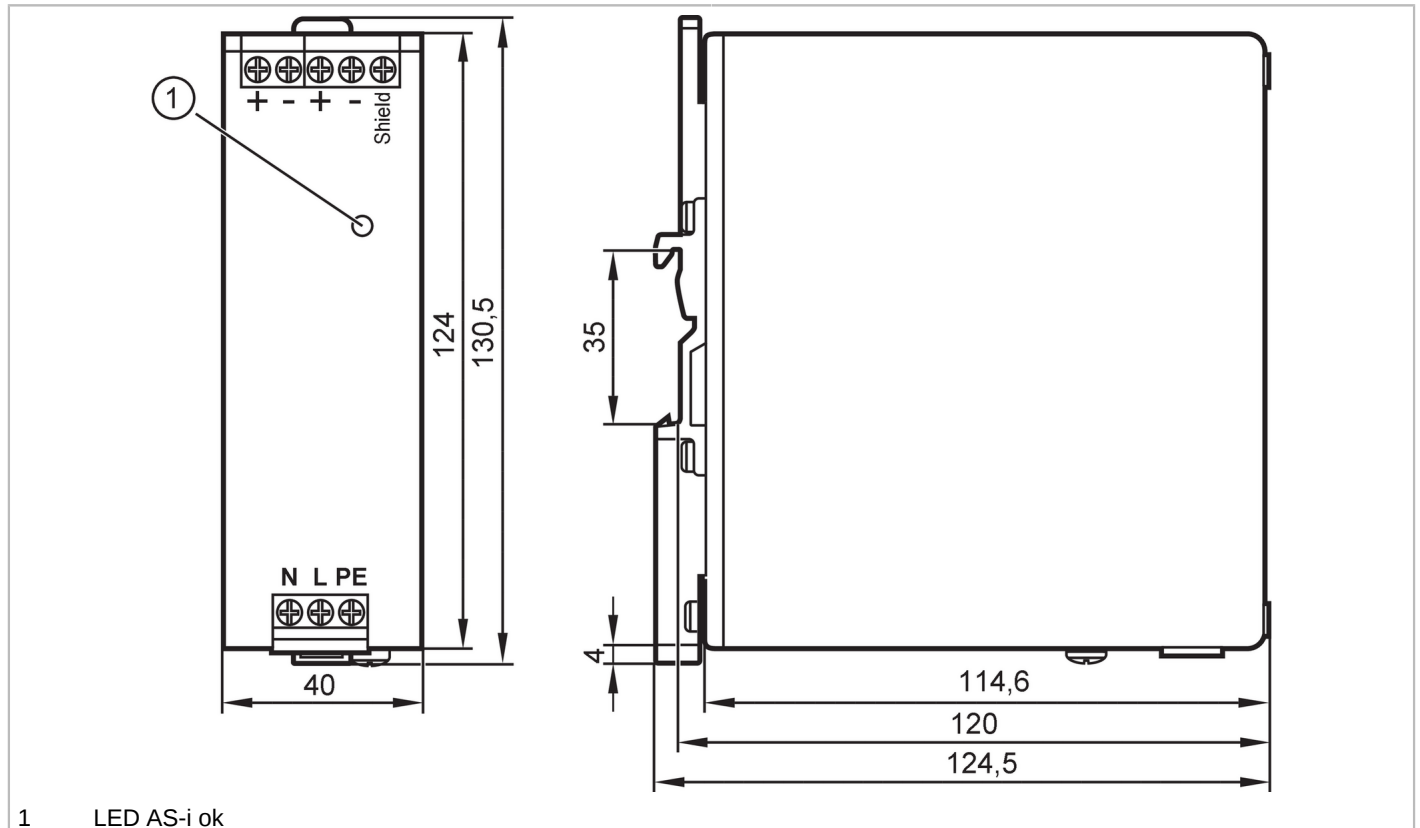


AC1254



AS-Interface power supply

PSU-1AC/ASi-4A



1 LED AS-i ok



| Application | |
|---|---|
| Design | housing for DIN rail mounting |
| Electrical data | |
| Frequency AC | [Hz] 47...64 |
| Operating voltage tolerance | [%] 10 |
| Operating voltage | [V] automatic range selection |
| Nominal voltage AC | [V] 110 / 230 |
| Input voltage range AC | [V] 100...120 / 200...240 |
| Protection class | I |
| Overvoltage protection | yes; (< 36 V) |
| Max. power-on delay time | [ms] 900 |
| Output voltage AS-i | [V] 30.5 |
| Output power (permanent) | [W] 122 |
| Output power (peak) | [W] 134 |
| Note on output power (peak) | [W] briefly to load bus capacities after power on |
| Power factor (nominal voltage 120 V AC / 60 Hz) | 0.56 |
| Power factor (nominal voltage 230 V AC / 50 Hz) | 0.47 |
| Power reserve | [%] 10 |
| Number of output circuits | 1 |
| Output current AS-i | [A] 4 |

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PSU-1AC/ASI-4A

| | | |
|---|-------|--------------------|
| Max. residual ripple | [mV] | 50 |
| Switch-on peak current (nominal voltage 120 V AC / 60 Hz) | [A] | 3 |
| Switch-on peak current (nominal voltage 230 V AC / 50 Hz) | [A] | 3 |
| Inrush current limitation | | yes |
| Efficiency (nominal voltage 120 V AC / 60 Hz) | [%] | 88 |
| Efficiency (nominal voltage 230 V AC / 50 Hz) | [%] | 89.3 |
| External input protection | | ≤ B-10 A / ≤ C-6 A |
| Derating | [W/K] | 3 (60...70 °C) |
| Mains buffering time (nominal voltage 120 V AC / 60 Hz) | [ms] | 70 |
| Mains buffering time (nominal voltage 230 V AC / 50 Hz) | [ms] | 70 |
| Input current (nominal voltage 120 V AC / 60 Hz) | [A] | 2.05 |
| Input current (nominal voltage 230 V AC / 50 Hz) | [A] | 1.23 |
| Power loss (nominal voltage 120 V AC / 60 Hz) | [W] | 16.6 |
| Power loss (nominal voltage 230 V AC / 50 Hz) | [W] | 14.6 |
| Integrated data decoupling | | yes |
| Back feeding protection | [V] | 35 |

Outputs

| | | |
|--|--|-------------------------|
| Short-circuit proof | | yes |
| Overload protection | | yes |
| Overload performance | | output current constant |
| Parallel connection of outputs possible | | no |
| Series connection of outputs possible | | no |

Operating conditions

| | | |
|-----------------------------|------|--|
| Ambient temperature | [°C] | -25...70 |
| Note on ambient temperature | | observe the free space for convection (see operating instructions) |
| Storage temperature | [°C] | -40...85 |
| Max. relative air humidity | [%] | 95; (IEC 60068-2-30) |
| Protection | | IP 20 |
| Pollution degree | | 2; (IEC 62103: conductive soiling not permitted) |

Tests / approvals

| | | |
|----------------------|----------------|--|
| EMC | EN 61000-6-1 | |
| | EN 61000-6-2 | |
| | EN 61000-6-4 | |
| Vibration resistance | IEC 60068-2-6 | ± 1,6 mm 2...17,8 Hz / 2 g 17,8...500 Hz |
| Shock resistance | IEC 60068-2-27 | 30 g 6 ms / 20 g 11 ms |

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PSU-1AC/ASI-4A

| | | |
|------|---------|----|
| MTTF | [years] | 90 |
|------|---------|----|

AS-i classification

| | |
|------------------|-------|
| AS-i certificate | 98601 |
|------------------|-------|

Mechanical data

| | | |
|------------------|------|---|
| Weight | [g] | 625.5 |
| Housing | | rectangular |
| Type of mounting | | mounting on DIN rail; (TH35 (EN 60715)) |
| Dimensions | [mm] | 130.5 x 40 x 124.5 |
| Materials | | steel sheet |

Displays / operating elements

| | | |
|---------|--------------|------------|
| Display | AS-i voltage | LED, green |
|---------|--------------|------------|

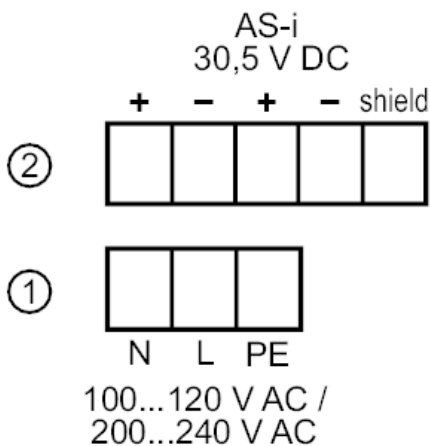
Remarks

| | |
|---------------|--------|
| Pack quantity | 1 pcs. |
|---------------|--------|

Electrical connection

screw terminals:

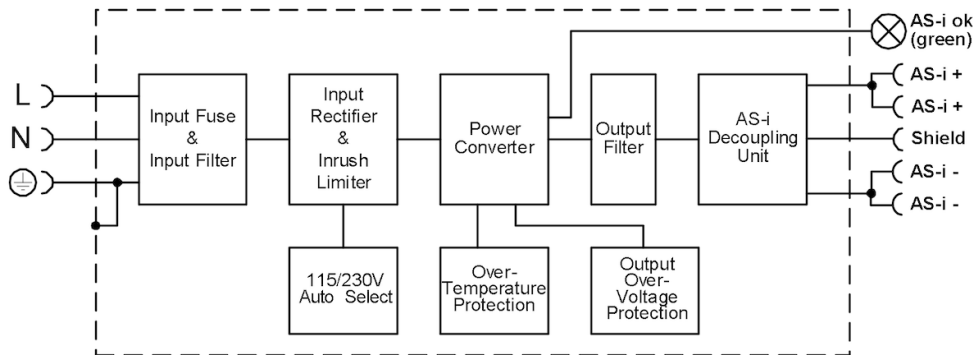
Connection



- 1: primary
- 2: secondary

Diagrams and graphs

block diagram



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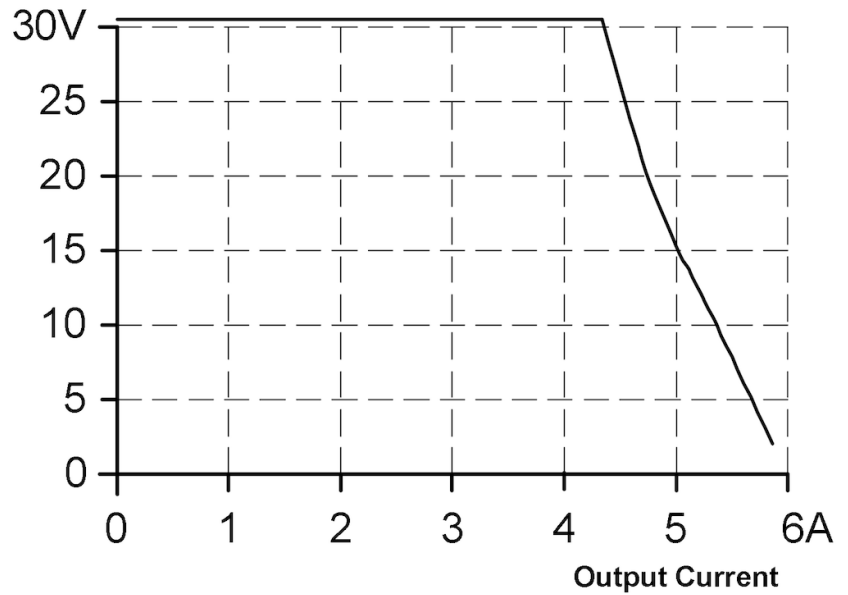
AS-Interface power supply

PSU-1AC/ASI-4A



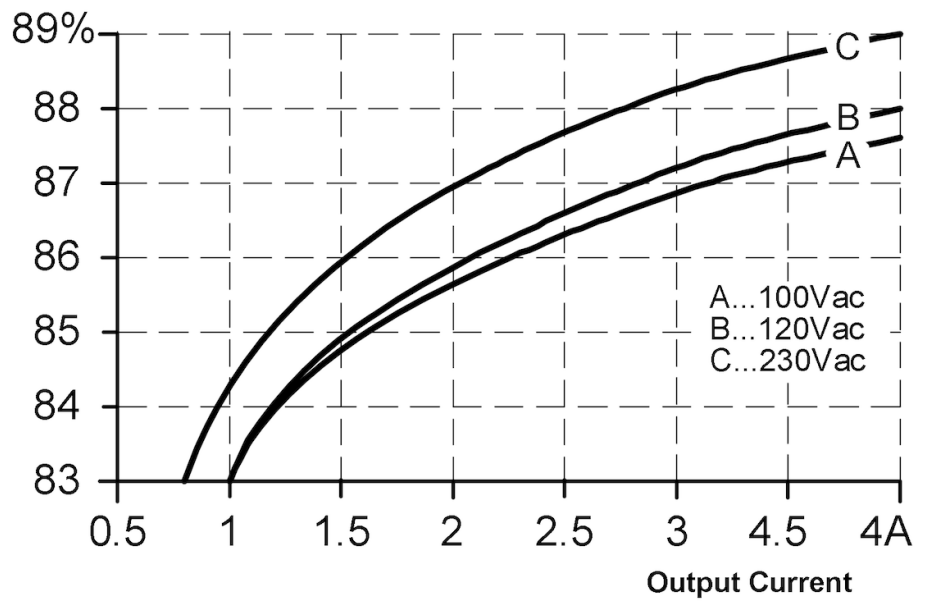
output characteristics

Output Voltage



characteristic curve for degree of efficiency / power loss

Efficiency



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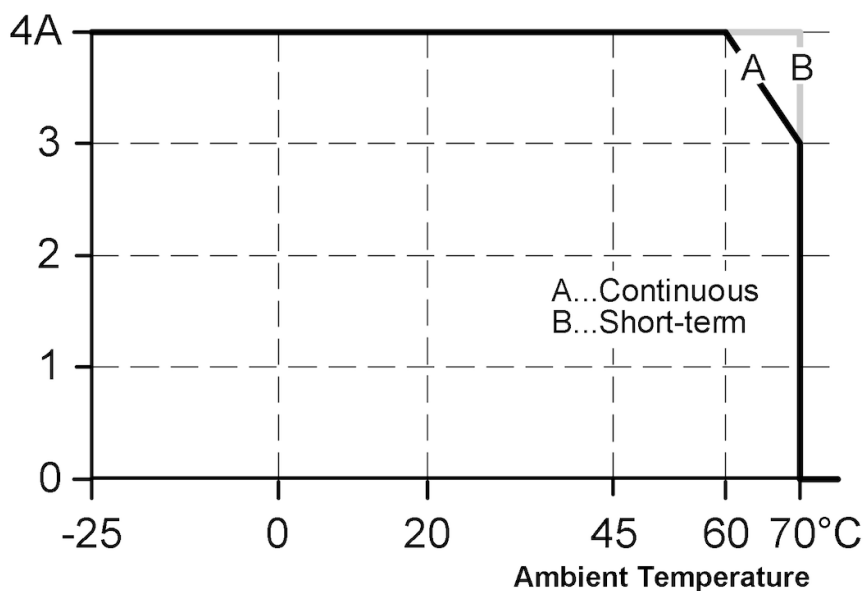
AS-Interface power supply

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characteristic line for derating

Allowed Output Current



characteristic line for mains buffering time

Hold-up Time

