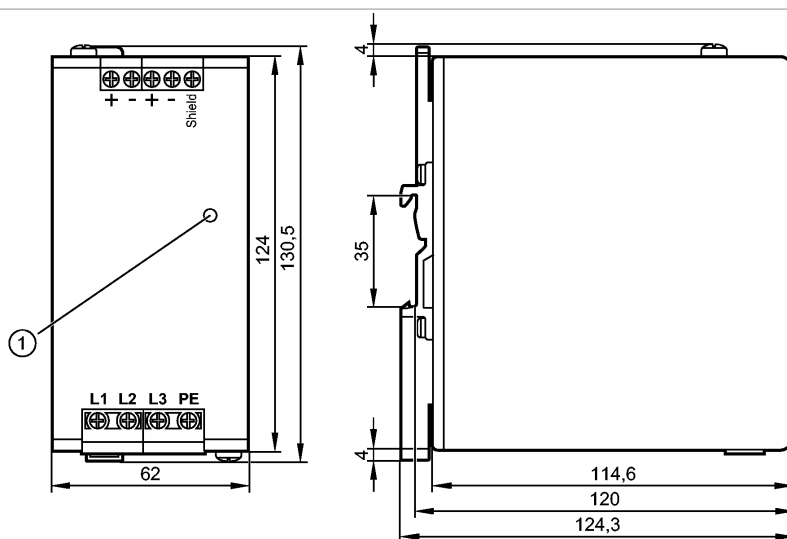


## AC1253

PSU-3AC/ASi-8A

Bus system AS-Interface



1: LED AS-i ok



### Product characteristics

Power supply

Three-phase AS-i power supply

380...480 V AC

Integrated data decoupling

### Application

Application

AS-i system voltage for masters, sensors, actuators and modules

### Electrical data

|                               |        |                                                    |
|-------------------------------|--------|----------------------------------------------------|
| Input voltage range           | [V]    | 380...480 AC; -15 % / +20 %                        |
| Nominal voltage               | [V]    | 3 x 400 AC                                         |
| Frequency range               | [Hz]   | 47...64                                            |
| Nominal frequency             | [Hz]   | 50 / 60                                            |
| Output voltage (AS-i)         | [V]    | 30.5 DC                                            |
| Output power                  | [W]    | 244                                                |
| Output power peak             | [W]    | 256; briefly to load bus capacities after power on |
| Power factor                  |        | 0.53 (400 V AC; 50 Hz) / 0.52 (480 V AC; 60 Hz)    |
| Power reserve                 | [%]    | 5                                                  |
| Output current (AS-i)         | [A]    | 8                                                  |
| Residual ripple               | [mVpp] | < 90                                               |
| Switch-on peak current        | [A]    | 4 (400 V AC; 50 Hz) / 4 (480 V AC; 60 Hz)          |
| Efficiency                    | [%]    | 92 (400 V AC; 50 Hz) / 92.1 (480 V AC; 60 Hz)      |
| Short-circuit proof           |        | yes                                                |
| Overload protection           |        | yes                                                |
| Overload performance          |        | constant output current                            |
| Overvoltage protection        | [V]    | < 36                                               |
| Excess temperature protection |        | yes                                                |
| External input protection     |        | ≤ B-6 A / ≤ C-3 A                                  |
| Power-on delay time           | [ms]   | ≤ 90                                               |
| Derating                      | [W/K]  | 6 (60...70 °C)                                     |
| Mains buffering time          | [ms]   | 34 (400 V AC; 50 Hz) / 53 (480 V AC; 60 Hz)        |



AC1253

PSU-3AC/ASi-8A

Bus system AS-Interface

Protection class

Input current [A]

Power loss [W]

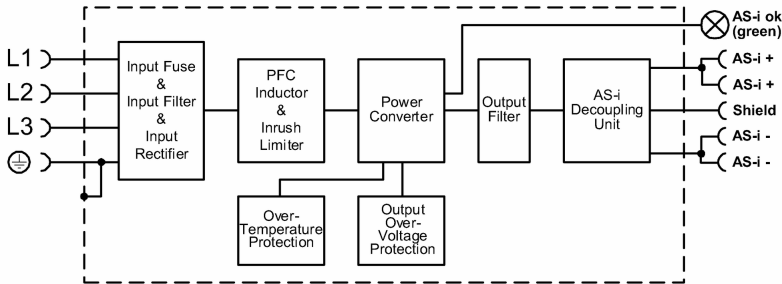
Back feeding protection [V]

Block diagram

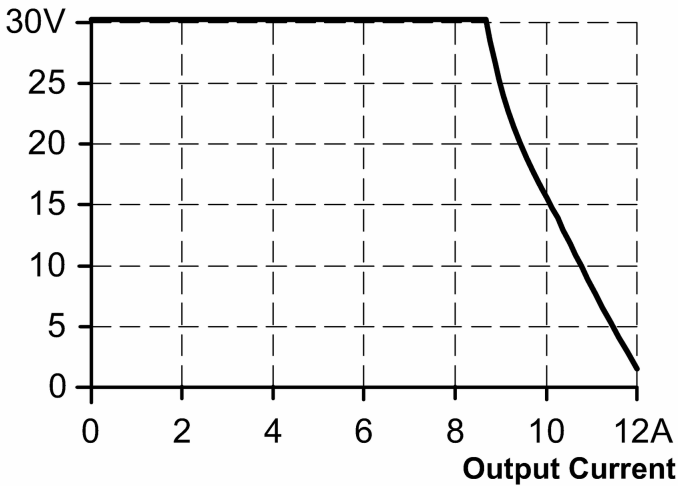
Output curve

Characteristic curve for degree of efficiency / power loss

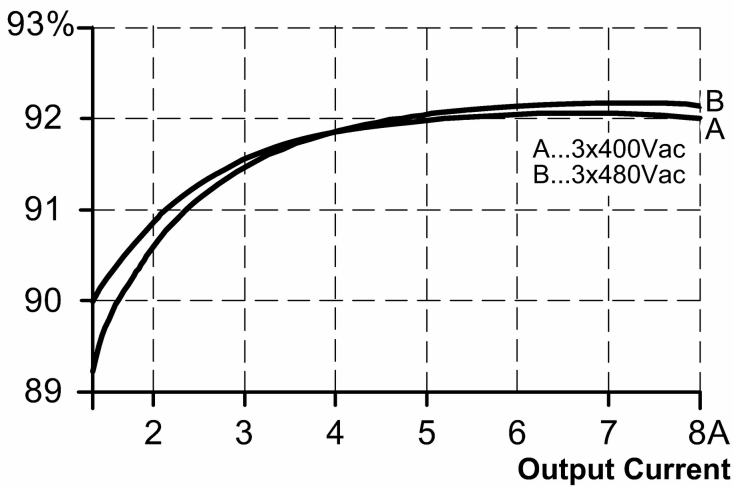
|                                                 |
|-------------------------------------------------|
| I                                               |
| 0.7 (400 V AC; 50 Hz) / 0.6 (480 V AC; 60 Hz)   |
| 21.2 (400 V AC; 50 Hz) / 20.9 (480 V AC; 60 Hz) |
| ≤ 35 DC                                         |



Output Voltage



Efficiency





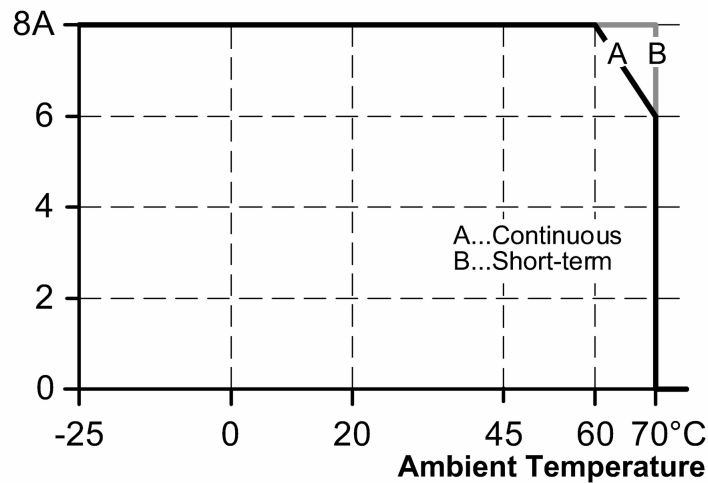
AC1253

PSU-3AC/ASi-8A

Bus system AS-Interface

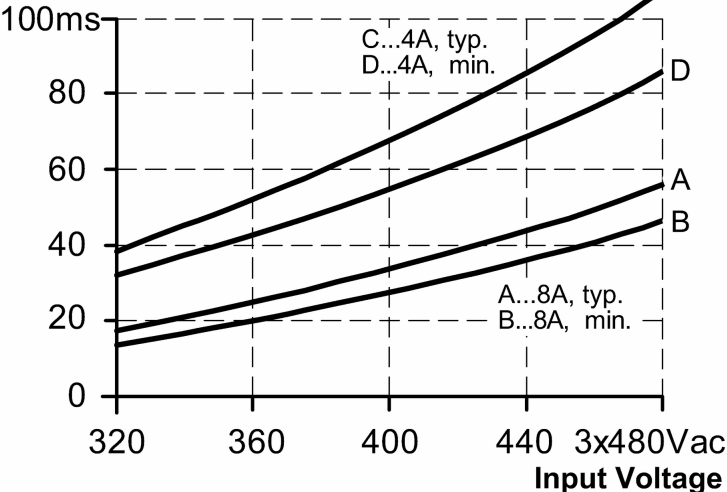
Characteristic curve for derating

Allowed Output Current



Characteristic curve for mains buffering time

Hold-up Time



Outputs

|                                |    |
|--------------------------------|----|
| Parallel connection of outputs | no |
| Series connection of outputs   | no |

Environment

|                            |      |                                                                              |
|----------------------------|------|------------------------------------------------------------------------------|
| Ambient temperature        | [°C] | -25...70, 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                                                                        |
| Degree of soiling          |      | 2; (IEC 62103) conductive soiling not permitted                              |

Tests / approvals

|                               |                                                              |                                            |
|-------------------------------|--------------------------------------------------------------|--------------------------------------------|
| EMC                           | EN 61000-6-1<br>EN 61000-6-2<br>EN 61000-6-3<br>EN 61000-6-4 |                                            |
| UL                            | UL 508 (Industrial Control Equipment)                        |                                            |
| Power Factor Correction (PFC) | met                                                          |                                            |
| Shock resistance              | IEC 60068-2-27                                               | 30 g (6 ms) / 20 g (11 ms)                 |
| Vibration resistance          | IEC 60068-2-6                                                | ± 1.6 mm (2...25 Hz) / 2 g (17.8...500 Hz) |

## AC1253

PSU-3AC/ASi-8A

Bus system AS-Interface

|          |        |
|----------|--------|
| MTBF [h] | 915000 |
|----------|--------|

### AS-i classification

|                  |       |
|------------------|-------|
| AS-i certificate | 98401 |
|------------------|-------|

### Mechanical data

|                   |                         |
|-------------------|-------------------------|
| Housing materials | steel sheet             |
| Installation      | rail TH35 (to EN 60715) |
| Weight [kg]       | 0.949                   |

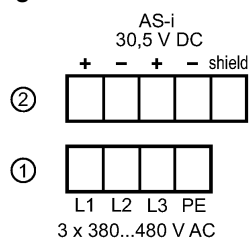
### Displays / operating elements

|                  |     |                                 |
|------------------|-----|---------------------------------|
| Function display | LED | green (indication AS-i voltage) |
|------------------|-----|---------------------------------|

### Electrical connection

|            |                 |
|------------|-----------------|
| Connection | screw terminals |
|------------|-----------------|

### Wiring



- 1: primary  
2: secondary

### Remarks

|               |         |   |
|---------------|---------|---|
| Pack quantity | [piece] | 1 |
|---------------|---------|---|