

MANUFACTURER DOCUMENT PACKAGE

# Manufacturer's Manual

Reference package for procurement and maintenance review

SIEMENS SIMATIC S7

## 3RX9306-1AA00

AS-INTERFACE COMBINED POWER SUPPLY

Used with the applicable SIMATIC AS-Interface configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Siemens official product documentation


**Product data sheet**
**3RX9306-1AA00**

AS-INTERFACE COMBINED POWER SUPPLY UNIT  
IP20,AS-I DC30V,  
WITH DATA DECOUPLING DC24V,  
4A (PRIMARY CLOCKING) INPUT VOLTAGE  
115/230V COMMUTABLES

**General technical data:**

|                                    |                                     |
|------------------------------------|-------------------------------------|
| Type of device                     | AS-Interface power supply unit IP20 |
| version                            | combi output                        |
| input voltage / nominal value / AC |                                     |
| • range 1                          | 115 V                               |
| • range 2                          | 230.000 V                           |

**Inputs:**

|                                                                     |                                                                |
|---------------------------------------------------------------------|----------------------------------------------------------------|
| input                                                               | single phase AC                                                |
| • voltage range                                                     |                                                                |
| • voltage range 1 / AC                                              |                                                                |
| • min                                                               | 102 V                                                          |
| • max                                                               | 132 V                                                          |
| • voltage range 2 / AC                                              |                                                                |
| • min                                                               | 195 V                                                          |
| • max                                                               | 253 V                                                          |
| • Mains buffering time / at I <sub>a</sub> rated / min              | 20                                                             |
| • line frequency                                                    | 50/60 Hz                                                       |
| • Mains frequency range                                             |                                                                |
| • min                                                               | 47 Hz                                                          |
| • max                                                               | 63 Hz                                                          |
| • range changeover / using                                          | changeover switch                                              |
| • input voltage / built-in                                          | T 5 (not accessible)                                           |
| • recommended circuit breaker / (IEC 898) / in the main supply line | 16 A and higher, characteristic C                              |
| Connections / input                                                 | spring-loaded terminal connection (0.8...2.5 mm <sup>2</sup> ) |

**Outputs:**

|                                                                              |                                                                |
|------------------------------------------------------------------------------|----------------------------------------------------------------|
| output                                                                       |                                                                |
| • DC-voltage / controlled floating / according to AS-Interface specification | yes                                                            |
| • voltage rated value / U <sub>a</sub> rated / DC                            | 30 / 24 V                                                      |
| • tolerance / total / DC                                                     |                                                                |
| • min                                                                        | 29.5 V                                                         |
| • max                                                                        | 31.6 V                                                         |
| • rated current / I <sub>a</sub> rated                                       | 4/5 A                                                          |
| • residual ripple / peak-to-peak / ( 0-10 kHz, AS-i+/AS-i- ) / max           | 300 mV                                                         |
| • spikes / peak-to-peak / ( 10-500 kHz, AS-i+/AS-i- ) / max                  | 50 mV                                                          |
| Connections / Output                                                         | spring-loaded terminal connection (0.8...2.5 mm <sup>2</sup> ) |
| Efficiency / heat loss:                                                      |                                                                |
| Efficiency / at U <sub>a</sub> rated, I <sub>a</sub> rated                   | 85 %                                                           |
| Protective and monitoring functions                                          |                                                                |
| Output overvoltage protection                                                | no                                                             |
| Current limitation / from min.                                               | 4/5 A                                                          |
| Short-circuit protection                                                     | yes                                                            |
| Safety:                                                                      |                                                                |
| protection class / ( EN 60 950/IEC 950 )                                     | I                                                              |
| licence                                                                      | CE, UL, CSA (available soon)                                   |
| Electrical isolation / primary/secondary                                     | SELV according to EN 60 950 (available soon)                   |
| Protection class IP                                                          | IP20                                                           |
| EMC:                                                                         |                                                                |
| electromagnetic compatibility (EMC)                                          |                                                                |
| • interference immunity                                                      | EN 50 082-2                                                    |
| • emitted interference                                                       | EN 50 081-1                                                    |
| Ambient conditions:                                                          |                                                                |
| Ambient temperature                                                          |                                                                |
| • during the operating phase                                                 |                                                                |
| • maximum                                                                    | 55 °C                                                          |
| • minimum                                                                    | -45 °C                                                         |
| • during storage                                                             |                                                                |
| • maximum                                                                    | 60 °C                                                          |

|                           |                                                                    |
|---------------------------|--------------------------------------------------------------------|
| • minimum                 | -45 °C                                                             |
| humidity rating           | max. 80% rel. Humidity                                             |
| <b>Mechanical design:</b> |                                                                    |
| Type of fixing/fixation   | fixing on standard mounting rail DIN EN 50 022-35 x 7.5 mm snap-on |
| Width                     | 150 mm                                                             |
| Height                    | 135 mm                                                             |
| Depth                     | 107 mm                                                             |
| <b>last change:</b>       | 10/31/2006                                                         |

|                              |            |                                                |
|------------------------------|------------|------------------------------------------------|
| <b>Technical Assistance:</b> | Telephone: | +49 (0) 911-895-5900 (8°° - 17°° CET)          |
|                              | Fax:       | +49 (0) 911-895-5907                           |
|                              | E-Mail:    | technical-assistance@siemens.com               |
|                              | Internet:  | www.siemens.de/lowvoltage/technical-assistance |