

# SIEMENS

## Product data sheet

**6ES7132-4BB31-0AA0**


SIMATIC DP,  
5 ELECTRON. MODULES FOR ET 200S,  
2 DO STANDARD DC 24V/2A,  
15 MM WIDTH 5 PIECES PER PACKAGING UNIT

### Supply voltage

|                            |                                                               |
|----------------------------|---------------------------------------------------------------|
| Reverse voltage protection | Yes ; when using the same load voltage as on the power module |
|----------------------------|---------------------------------------------------------------|

### Load voltage L+

|                             |                                                                                 |
|-----------------------------|---------------------------------------------------------------------------------|
| Rated value (DC)            | 24 V ; From power module                                                        |
| Reverse polarity protection | Yes ; polarity reversal can lead to the digital outputs being connected through |

### Input current

|                                           |                    |
|-------------------------------------------|--------------------|
| from load voltage L+ (without load), max. | 5 mA ; Per channel |
| from backplane bus 3.3 V DC, max.         | 10 mA              |

### Power losses

|                  |       |
|------------------|-------|
| Power loss, typ. | 1.4 W |
|------------------|-------|

### Address area

#### Address space per module

|                 |        |
|-----------------|--------|
| with packing    | 2 bit  |
| without packing | 1 byte |

|                                                       |                          |
|-------------------------------------------------------|--------------------------|
| Digital outputs                                       |                          |
| Number/binary outputs                                 | 2                        |
| Functionality/short-circuit strength                  | Yes ; Per channel        |
| Response threshold, typ.                              | 2.8 to 7.2 A             |
| Limitation of inductive shutdown voltage to           | -55 to -60 V, typ. L+( ) |
| Lamp load, max.                                       | 10 W                     |
| Controlling a digital input                           | Yes                      |
| Load resistance range                                 |                          |
| lower limit                                           | 12 $\Omega$              |
| upper limit                                           | 3400 $\Omega$            |
| Output voltage                                        |                          |
| for signal "1", min.                                  | L+ (-1 V)                |
| Output current                                        |                          |
| for signal "1" rated value                            | 2 A                      |
| for signal "1" permissible range for 0 to 60 °C, min. | 7 mA                     |
| for signal "1" permissible range for 0 to 60 °C, max. | 2.4 A                    |
| for signal "0" residual current, max.                 | 0.5 mA                   |
| Output delay with resistive load                      |                          |
| "0" to "1", max.                                      | 200 $\mu$ s              |
| "1" to "0", max.                                      | 1.3 ms                   |
| Parallel switching of 2 outputs                       |                          |
| for increased power                                   | No                       |
| for redundant control of a load                       | Yes ; per module         |
| Switching frequency                                   |                          |
| with resistive load, max.                             | 100 Hz                   |
| with inductive load, max.                             | 2 Hz ; 0.5 H             |
| on lamp load, max.                                    | 10 Hz                    |
| Aggregate current of outputs (per group)              |                          |
| all mounting positions                                |                          |
| up to 60 °C, max.                                     | 4 A                      |
| Cable length                                          |                          |
| Cable length, shielded, max.                          | 1000 m                   |
| Cable length unshielded, max.                         | 600 m                    |

|                                                                 |              |
|-----------------------------------------------------------------|--------------|
| Isochronous mode                                                |              |
| Isochronous operation (application synchronized up to terminal) | No           |
| Interrupts/diagnostics/status information                       |              |
| Diagnostic messages                                             |              |
| Diagnostic functions                                            | No           |
| Diagnostics indication LED                                      |              |
| Status indicator digital output (green)                         | Yes          |
| Parameter                                                       |              |
| Remark                                                          | 1 byte       |
| Galvanic isolation                                              |              |
| Galvanic isolation digital outputs                              |              |
| between the channels                                            | No           |
| between the channels and the backplane bus                      | Yes          |
| Isolation                                                       |              |
| Isolation checked with                                          | 500 V DC     |
| Dimensions                                                      |              |
| Width                                                           | 15 mm        |
| Height                                                          | 81 mm        |
| Depth                                                           | 52 mm        |
| Weight                                                          |              |
| Weight, approx.                                                 | 40 g         |
| Status                                                          | Jul 24, 2012 |