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## Data sheet 6ES7135-4LB02-0AB0



*** Spare part *** SIMATIC DP, Electronics module 2 AO U High Feature for ET 200S, 15 mm width, Cycle time per module: 0.5 ms, +/-10V; 15 bit+sign, 1.. 5V; 15 bit, Operational limit +/-0.07% with SF LED (group fault)

| | |
|---|---|
| **General information** | |
| Product function | |
| ● Isochronous mode | Yes |
| **Supply voltage** | |
| Load voltage L+ | |
| ● Rated value (DC) | 24 V |
| ● Reverse polarity protection | Yes |
| **Input current** | |
| from load voltage L+ (without load), max. | 80 mA |
| from backplane bus 3.3 V DC, max. | 10 mA |
| **Address area** | |
| Address space per module | |
| ● Address space per module, max. | 4 byte |
| **Analog outputs** | |
| Number of analog outputs | 2 |
| Voltage output, short-circuit protection | Yes |
| Voltage output, short-circuit current, max. | 25 mA |
| Cycle time (all channels) max. | 0.5 ms; At max. 0.5 µF |
| Output ranges, voltage | |
| ● 1 V to 5 V | Yes |
| ● -5 V to +5 V | Yes |
| ● -10 V to +10 V | Yes |
| Connection of actuators | |
| ● for voltage output two-wire connection | Yes |
| ● for voltage output four-wire connection | Yes |
| Load impedance (in rated range of output) | |
| ● with voltage outputs, min. | 1 kΩ |
| ● with voltage outputs, capacitive load, max. | 0.5 µF |
| Destruction limits against externally applied voltages and currents | |
| ● Voltages at the outputs towards MANA | 15 V; max. 15 V continuous; 75 V for max. 1 s (mark to space ratio 1:20) |
| Cable length | |
| ● shielded, max. | 200 m; 100 m if Twa < 2 ms |
| **Analog value generation for the outputs** | |
| Integration and conversion time/resolution per channel | |
| ● Resolution with overrange (bit including sign), max. | 16 bit; 15 bit + sign |
| Settling time | |
| ● for resistive load | 0.2 ms |
| ● for capacitive load | 0.5 ms; At max. 0.5 µF |
| ● for inductive load | 0.5 ms |


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| | |
|---|---|
| **Errors/accuracies** | |
| Operational error limit in overall temperature range | |
| ● Voltage, relative to output range, (+/-) | 0.1 % |
| Basic error limit (operational limit at 25 °C) | |
| ● Voltage, relative to output range, (+/-) | 0.05 % |
| **Interrupts/diagnostics/status information** | |
| Substitute values connectable | Yes |
| Diagnoses | |
| ● Diagnostic information readable | Yes |
| ● short-circuit | Yes |
| ● Group error | Yes |
| Diagnostics indication LED | |
| ● Group error SF (red) | Yes |
| **Potential separation** | |
| Potential separation analog outputs | |
| ● between the channels | No |
| ● between the channels and backplane bus | Yes |
| ● Between the channels and load voltage L+ | Yes |
| **Isolation** | |
| Isolation tested with | 500 V DC |
| **Dimensions** | |
| Width | 15 mm |
| Height | 81 mm |
| Depth | 52 mm |
| **Weights** | |
| Weight, approx. | 40 g |

**Classifications**

| | Version | Classification |
|---|---|---|
| eClass | 16 | 27-24-26-01 |
| eClass | 14 | 27-24-26-01 |
| eClass | 12 | 27-24-26-01 |
| eClass | 9.1 | 27-24-26-01 |
| eClass | 9 | 27-24-26-01 |
| eClass | 8 | 27-24-26-01 |
| eClass | 7.1 | 27-24-26-01 |
| eClass | 6 | 27-24-26-01 |
| ETIM | 10 | EC001596 |
| ETIM | 9 | EC001596 |
| ETIM | 8 | EC001596 |
| ETIM | 7 | EC001596 |
| IDEA | 4 | 3562 |
| UNSPSC | 15 | 32-15-17-05 |

**Approvals / Certificates**

**General Product Approval**

Miscellaneous | Manufacturer Declaration

**General Product Approval** | **EMV**

Manufacturer Declaration | China RoHS


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**For use in hazardous locations**

FM

**For use in hazardous locations** | **Maritime application**

Miscellaneous | CCC-Ex

**Maritime application**

NK / Nippon Kaiji Kyokai | CCS (China Classification Society)

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