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## Data sheet 6ES7134-4MB02-0AB0



*** Spare part *** SIMATIC DP, Electronics module 2 AI I High Feature for ET 200S, 15 mm width, Cycle time per module: 0.5 ms, +/-20mA; 15 bit+sign, 4.. 20mA; 15 bit, Operational limit +/-0.1% 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. | 48 mA |
| from backplane bus 3.3 V DC, max. | 10 mA |
| **Output voltage** | |
| Power supply to the transmitters | |
| ● present | Yes |
| ● short-circuit proof | Yes |
| **Power loss** | |
| Power loss, typ. | 1.2 W |
| **Address area** | |
| Address space per module | |
| ● Address space per module, max. | 4 byte |
| **Analog inputs** | |
| Number of analog inputs | 2 |
| permissible input current for current input (destruction limit), max. | 50 mA |
| Cycle time (all channels) max. | 0.5 ms; 0.5 ms for 2 channels without noise suppression, 18 / 21 ms per channel with noise suppression |
| Input ranges (rated values), currents | |
| ● -20 mA to +20 mA | Yes |
| ● 4 mA to 20 mA | Yes |
| Cable length | |
| ● shielded, max. | 200 m |
| **Analog value generation for the inputs** | |
| Measurement principle | Sigma Delta |
| Integration and conversion time/resolution per channel | |
| ● Resolution with overrange (bit including sign), max. | 16 bit |
| ● Interference voltage suppression for interference frequency f1 in Hz | 60 / 50 Hz / no |
| ● Conversion time (per channel) | 0.04 ms; Without noise suppression 17/20 ms per channel with error |
| Smoothing of measured values | |
| ● parameterizable | Yes; In 4 stages: 1x, 4x, 16x, 32x cycle time |


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| | |
|---|---|
| ● Step: None | Yes; 1x |
| ● Step: low | Yes; 4x |
| ● Step: Medium | Yes; 16x |
| ● Step: High | Yes; 32x |
| **Encoder** | |
| Connection of signal encoders | |
| ● for current measurement as 2-wire transducer | |
| — Burden of 2-wire transmitter, max. | 750 Ω |
| **Errors/accuracies** | |
| Operational error limit in overall temperature range | |
| ● Current, relative to input range, (+/-) | 0.1 %; 0.2% without interference frequency suppression |
| Basic error limit (operational limit at 25 °C) | |
| ● Current, relative to input range, (+/-) | 0.05 %; 0.1% without interference frequency suppression |
| **Interrupts/diagnostics/status information** | |
| Alarms | |
| ● Hardware interrupt | Yes |
| Diagnoses | |
| ● Wire break | Yes; Measuring range 4 to 20 mA only |
| ● Group error | Yes |
| ● Overflow/Underflow | Yes |
| Diagnostics indication LED | |
| ● Group error SF (red) | Yes |
| **Potential separation** | |
| Potential separation analog inputs | |
| ● between the channels | No; however, increased permissible potential difference between the inputs. |
| ● between the channels and backplane bus | Yes |
| ● Between the channels and load voltage L+ | Yes |
| **Dimensions** | |
| Width | 15 mm |
| Height | 81 mm |
| Depth | 52 mm |
| **Weights** | |
| Weight, approx. | 45 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**

Manufacturer Declaration

Miscellaneous

Metrological Approval


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| General Product Approval | | | | | EMV |
|---|---|---|---|---|---|
| RCM | EAC | China RoHS | CE EG-Konf. | UKCA | RCM |

| For use in hazardous locations | | | | | |
|---|---|---|---|---|---|
| ATEX | FM | ATEX | UL | ATEX | IECEx |

| For use in hazardous locations | | Maritime application | | | |
|---|---|---|---|---|---|
| Miscellaneous | CCC-Ex | ABS | BUREAU VERITAS | DNV | LRS |

| Maritime application | | | | |
|---|---|---|---|---|
| NK / Nippon Kaiji Kyokai | PRS | RINA | CCS (China Classification Society) | KR (Korean Register of Shipping) |

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