SIEMENS

## Data sheet 6ES7350-2AH01-0AE0



Figure similar

***spare part*** SIMATIC S7-300, counter module FM 350-2, 8 channels, 20 kHz, 24 V encoder for counting, frequency measurement, speed measurement, cycle duration measurement, dosing incl. configuration package and electronic documentation on CD-ROM

| | |
|---|---|
| **Supply voltage** | |
| Auxiliary voltage 1L+, load voltage 2L+ | |
| ● Rated value (DC) | 24 V |
| ● permissible range, lower limit (DC) | 20.4 V |
| ● permissible range, upper limit (DC) | 28.8 V |
| **Input current** | |
| from load voltage L+ (without load), max. | 150 mA |
| from backplane bus 5 V DC, max. | 100 mA |
| **Encoder supply** | |
| NAMUR encoder supply | |
| ● 8.2 V | Yes |
| ● Short-circuit protection | Yes |
| ● Output current, max. | 200 mA |
| **Power loss** | |
| Power loss, typ. | 10 W |
| **Digital inputs** | |
| Number of digital inputs | 8 |
| Number of NAMUR inputs | 8 |
| Functions | 1 each for gate start/ gate stop |
| Input voltage | |
| ● for signal "0" | -3 to +5V |
| ● for signal "1" | 11 to 30.2 V |
| Input current | |
| ● for signal "0", max. (permissible quiescent current) | 2 mA |
| ● for signal "1", typ. | 9 mA |
| for NAMUR encoders | |
| — for signal "0", max. | 1.2 mA |
| — for signal "1", min. | 2.1 mA |
| Input delay (for rated value of input voltage) | |
| ● Input frequency, max. | 20 kHz |
| for standard inputs | |
| — at "0" to "1", max. | 50 µs |
| for NAMUR inputs | |
| — at "0" to "1", max. | 50 µs |
| Cable length | |
| ● shielded, max. | 100 m |
| **Digital outputs** | |
| Number of digital outputs | 8 |


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| | |
|---|---|
| Short-circuit protection | Yes |
| Limitation of inductive shutdown voltage to | L+ (-40 V) |
| Output voltage | |
| ● for signal "1", min. | L+ (-0.8 V) |
| Output current | |
| ● for signal "1" rated value | 0.5 A |
| ● for signal "0" residual current, max. | 0.5 mA |
| Output delay with resistive load | |
| ● "0" to "1", max. | 300 µs |
| Switching frequency | |
| ● with resistive load, max. | 500 Hz |
| ● with inductive load, max. | 0.5 Hz |
| Total current of the outputs (per group) | |
| horizontal installation | |
| — up to 40 °C, max. | 4 A |
| — up to 60 °C, max. | 2 A |
| all other mounting positions | |
| — up to 40 °C, max. | 2 A |
| Cable length | |
| ● shielded, max. | 600 m |
| ● unshielded, max. | 100 m |
| **Encoder** | |
| Connectable encoders | |
| ● Incremental encoder (asymmetrical) | Yes |
| ● 24 V initiator | Yes |
| ● 24 V directional element | Yes |
| ● NAMUR encoder | Yes; to DIN 19 234 |
| ● 2-wire sensor | Yes |
| **Interrupts/diagnostics/status information** | |
| Diagnostics function | Yes; Diagnostic information readable |
| Alarms | |
| ● Diagnostic alarm | Yes; Parameterizable |
| ● Hardware interrupt | Yes; Parameterizable |
| Diagnostics indication LED | |
| ● Group error SF (red) | Yes |
| **Counter** | |
| Number of counter inputs | 8; 32 bit or ±31 bit |
| Counter input 24 V | |
| ● Input voltage for signal "0" | -3 to +5V |
| ● Input voltage for signal "1" | 11 to 30.2 V |
| ● Input current for signal "1", typ. | 9 mA |
| ● Counting frequency, max. | 20 kHz; Incremental encoder: 10 kHz |
| **Potential separation** | |
| Potential separation digital inputs | |
| ● between the channels and backplane bus | Yes; and shielding |
| Potential separation digital outputs | |
| ● between the channels and backplane bus | Yes; and shielding |
| Potential separation counter | |
| ● between the channels and backplane bus | Yes; and shielding |
| **Connection method** | |
| required front connector | 1x 40-pin |
| **Dimensions** | |
| Width | 80 mm |
| Height | 125 mm |
| Depth | 120 mm |
| **Weights** | |
| Weight, approx. | 460 g |
| **Classifications** | |


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| | Version | Classification |
|---|---|---|
| eClass | 16 | 27-24-22-05 |
| eClass | 14 | 27-24-22-05 |
| eClass | 12 | 27-24-22-05 |
| eClass | 9.1 | 27-24-22-05 |
| eClass | 9 | 27-24-22-05 |
| eClass | 8 | 27-24-22-05 |
| eClass | 7.1 | 27-24-22-05 |
| eClass | 6 | 27-24-22-05 |
| ETIM | 10 | EC001422 |
| ETIM | 9 | EC001422 |
| ETIM | 8 | EC001422 |
| ETIM | 7 | EC001422 |
| IDEA | 4 | 3567 |
| UNSPSC | 15 | 32-15-17-05 |

## Approvals / Certificates

### General Product Approval

Manufacturer Declaration

Miscellaneous













### General Product Approval




China RoHS

### EMV




### For use in hazardous locations




FM




### For use in hazardous locations




Miscellaneous




CCC-Ex

### Maritime application







### Maritime application







NK / Nippon Kaiji Kyokai







**last modified:** 9/11/2026


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