SIEMENS

Data sheet

6AG1350-2AH01-4AE0



SIPLUS S7-300 FM350-2 8 channels for medial exposure with conformal coating based on 6ES7350-2AH01-0AE0 . Counter module FM 350-2, 8 channels, 20 kHz, 24 V encoder for counting, frequency measurement, speed measurement, period duration measurement, dosing incl. configuration package and Electronic documentation on CD-ROM

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| 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 |
| 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 |
| Short-circuit protection | Yes |
| Limitation of inductive shutdown voltage to | L+ (-40 V) |
| Output voltage | |

| e for signal "1" min | |
|---|--|
| for signal "1", min. Output current | L+ (-0.8 V) |
| for signal "1" rated value | 0.5 A |
| for signal "0" residual current, max. | 0.5 mA |
| Output delay with resistive load | 0.0 m/ |
| • "0" to "1", max. | 300 µs |
| Switching frequency | 000 µ3 |
| 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 |
| | 165 |
| Interrupts/diagnostics/status information | Ver Dismostis information readable |
| 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 |
| Standards, approvals, certificates | |
| CE mark | Yes |
| UL approval | Yes; File E239877 |
| RCM (formerly C-TICK) | Yes |
| KC approval | Yes |
| EAC (formerly Gost-R) | Yes |
| Ambient conditions | |
| Ambient temperature during operation | |
| • min. | 0 °C; = Tmin |
| • max. | 60 °C; = Tmax |
| Altitude during operation relating to sea level | |
| Installation altitude above sea level, max. | 5 000 m |
| Ambient air temperature-barometric pressure- | Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin |
| | |

| altitude | (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) |
|---|---|
| Relative humidity | |
| With condensation, tested in accordance with IEC 60068-2-38, max. | 100 %; RH incl. condensation/frost (no commissioning under condensation conditions) |
| Resistance | |
| Use in stationary industrial systems | |
| — to biologically active substances according to EN 60721-3-3 | Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request |
| to chemically active substances according to EN 60721-3-3 | Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * |
| — to mechanically active substances according to EN 60721-3-3 | Yes; Class 3S4 incl. sand, dust, * |
| Use on ships/at sea | |
| — to biologically active substances according to EN 60721-3-6 | Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request |
| — to chemically active substances according to EN 60721-3-6 | Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * |
| — to mechanically active substances according to EN 60721-3-6 | Yes; Class 6S3 incl. sand, dust; * |
| Usage in industrial process technology | |
| Against chemically active substances acc. to EN 60654-4 | Yes; Class 3 (excluding trichlorethylene) |
| Environmental conditions for process, measuring and control systems acc. to ANSI/ISA- 71.04 | Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil) |
| Remark | |
| — Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 | * The supplied plug covers must remain in place over the unused interfaces during operation! |
| connection method / header | |
| required front connector | 1x 40-pin |
| Dimensions | |
| Width | 80 mm |
| Height | 125 mm |
| Depth | 120 mm |
| Weights | |
| Weight, approx. | 460 g |
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