




Figure similar

SIMATIC S7-300, 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

| 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 | |
| • 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 |
| last modified: | 3/25/2021  |

