

SIMATIC S7-200 SMART, Analog input SM AI08, 8 AI, 0...10V, 0...5V, +/-5 V, +/-2.5 V or 0/4-20 mA; 11 bit + sign (12 bit ADC)

| General information                                    |                      |
|--------------------------------------------------------|----------------------|
| Product type designation                               | SM AI08, AI 8x12 bit |
| CiR - Configuration in RUN                             |                      |
| Reparameterization possible in RUN                     | No                   |
| Supply voltage                                         |                      |
| Type of supply voltage                                 | DC                   |
| Rated value (DC)                                       | 24 V; -15 / +20 %    |
| permissible range, lower limit (DC)                    | 20.4 V               |
| permissible range, upper limit (DC)                    | 28.8 V               |
| Input current                                          |                      |
| Current consumption, typ.                              | 60 mA                |
| Current consumption, max.                              | 80 mA                |
| from backplane bus 5 V DC, typ.                        | 61 mA                |
| from backplane bus 5 V DC, max.                        | 80 mA                |
| Power loss                                             |                      |
| Power loss, typ.                                       | 2 W                  |
| Analog inputs                                          |                      |
| Number of analog inputs                                | 8                    |
| Input ranges                                           |                      |
| • Voltage                                              | Yes                  |
| • Current                                              | Yes                  |
| • Thermocouple                                         | No                   |
| • Resistance thermometer                               | No                   |
| • Resistance                                           | No                   |
| Analog value generation for the inputs                 |                      |
| Integration and conversion time/resolution per channel |                      |
| • Resolution with overrange (bit including sign), max. | 12 bit               |
| Dimensions                                             |                      |
| Width                                                  | 45 mm                |
| Height                                                 | 100 mm               |
| Depth                                                  | 81 mm                |
| Weights                                                |                      |
| Weight, approx.                                        | 186 g                |
| Classifications                                        |                      |

|        | Version | Classification |
|--------|---------|----------------|
| eClass | 14      | 27-24-22-01    |
| eClass | 12      | 27-24-22-01    |
| eClass | 9.1     | 27-24-22-01    |
| eClass | 9       | 27-24-22-01    |
| eClass | 8       | 27-24-22-01    |
| eClass | 7.1     | 27-24-22-01    |
| eClass | 6       | 27-24-22-01    |
| ETIM   | 9       | EC001420       |
| ETIM   | 8       | EC001420       |
| ETIM   | 7       | EC001420       |
| IDEA   | 4       | 3562           |
| UNSPSC | 15      | 32-15-17-05    |



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last modified:

3/12/2024 