



SIPLUS S7-300 SM332 8AO HART FOR MEDIAL STRESS  
WITH CONFORMAL COATING BASED ON 6ES7332-8TF01  
-0AB0

|                                            |              |
|--------------------------------------------|--------------|
| Supply voltage                             |              |
| Load voltage L+                            |              |
| Rated value (DC)                           | 24 V         |
| Input current                              |              |
| from load voltage L+ (without load), max.  | 350 mA       |
| from backplane bus 5 V DC, max.            | 110 mA       |
| Power loss                                 |              |
| Power loss, typ.                           | 6 W          |
| Analog outputs                             |              |
| Number of analog outputs                   | 8            |
| Current output, no-load voltage, max.      | 24 V         |
| Output ranges, current                     |              |
| 0 to 20 mA                                 | Yes          |
| -20 to +20 mA                              | No           |
| 4 to 20 mA                                 | Yes          |
| Load impedance (in rated range of output)  |              |
| with current outputs, max.                 | 750 $\Omega$ |
| with current outputs, inductive load, max. | 10 mH        |

|                                                               |                    |
|---------------------------------------------------------------|--------------------|
| <b>Cable length</b>                                           |                    |
| Cable length, shielded, max.                                  | 800 m              |
| <b>Analog value generation</b>                                |                    |
| <b>Integration and conversion time/resolution per channel</b> |                    |
| Resolution with overrange (bit including sign), max.          | 16 bit             |
| <b>Settling time</b>                                          |                    |
| for resistive load                                            | 0.1 ms             |
| for inductive load                                            | 0.5 ms             |
| <b>Errors/accuracies</b>                                      |                    |
| <b>Operational error limit in overall temperature range</b>   |                    |
| Current, relative to output area, (+/-)                       | 0.2 %              |
| <b>Basic error limit (operational limit at 25 °C)</b>         |                    |
| Current, relative to output area, (+/-)                       | 0.1 %              |
| <b>Interrupts/diagnostics/status information</b>              |                    |
| Substitute values connectable                                 | Yes                |
| <b>Alarms</b>                                                 |                    |
| Diagnostic alarm                                              | Yes                |
| <b>Diagnostic messages</b>                                    |                    |
| Diagnostic information readable                               | Yes                |
| Diagnostics                                                   | Yes                |
| <b>Diagnostics indication LED</b>                             |                    |
| Group error SF (red)                                          | Yes                |
| <b>Galvanic isolation</b>                                     |                    |
| <b>Galvanic isolation analog outputs</b>                      |                    |
| between the channels and the backplane bus                    | Yes                |
| <b>Isolation</b>                                              |                    |
| Isolation tested with                                         | 500 V DC           |
| <b>Standards, approvals, certificates</b>                     |                    |
| CE mark                                                       | Yes                |
| KC approval                                                   | Yes                |
| UL approval                                                   | Yes ; File E239877 |
| RCM (former C-TICK)                                           | Yes                |
| FM approval                                                   | Yes                |
| EAC (former Gost-R)                                           | Yes                |
| EN 50155                                                      | No                 |
| EN 50121-4                                                    | No                 |
| <b>Ambient conditions</b>                                     |                    |
| <b>Operating temperature</b>                                  |                    |

|                                                                                   |                                                                                                                                                                                                         |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>min.</b>                                                                       | 0 °C ; = Tmin                                                                                                                                                                                           |
| <b>max.</b>                                                                       | 60 °C ; = Tmax                                                                                                                                                                                          |
| <b>Extended ambient conditions</b>                                                |                                                                                                                                                                                                         |
| <b>relative to ambient temperature-atmospheric pressure-installation altitude</b> | Tmin ... Tmax at 1080 hPa ... 795 hPa (-1000 m ... +2000 m) // Tmin ... (Tmax - 10K) at 795 hPa ... 658 hPa (+2000 m ... +3500 m) // Tmin ... (Tmax - 20K) at 658 hPa ... 540 hPa (+3500 m ... +5000 m) |
| <b>Relative humidity</b>                                                          |                                                                                                                                                                                                         |
| <b>with condensation, tested in accordance with IEC 60068-2-38, maximum</b>       | 100 % ; RH incl. condensation/frost (no commissioning under condensation conditions)                                                                                                                    |
| <b>Resistance</b>                                                                 |                                                                                                                                                                                                         |
| <b>to biologically active substances/conformity with EN 60721-3-3</b>             | Yes ; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna). The supplied connector covers must remain on the unused interfaces during operation!                                     |
| <b>to chemically active substances/conformity with EN 60721-3-3</b>               | Yes ; Class 3C4 (RH < 75%) incl. salt spray according to EN 60068-2-52 (degree of severity 3). The supplied connector covers must remain on the unused interfaces during operation!                     |
| <b>to mechanically active substances/conformity with EN 60721-3-3</b>             | Yes ; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused interfaces during operation!                                                                                  |
| <b>Connection method</b>                                                          |                                                                                                                                                                                                         |
| <b>required front connector</b>                                                   | 20-pin                                                                                                                                                                                                  |
| <b>Dimensions</b>                                                                 |                                                                                                                                                                                                         |
| <b>Width</b>                                                                      | 40 mm                                                                                                                                                                                                   |
| <b>Height</b>                                                                     | 125 mm                                                                                                                                                                                                  |
| <b>Depth</b>                                                                      | 117 mm                                                                                                                                                                                                  |
| <b>Weights</b>                                                                    |                                                                                                                                                                                                         |
| <b>Weight, approx.</b>                                                            | 220 g                                                                                                                                                                                                   |
| Status                                                                            | Jul 7, 2014                                                                                                                                                                                             |