

SIPLUS S7-300 SM326F DO8 -25 ... +60 DEGREES C WITH CONFORMAL COATING BASED ON 6ES7326-2BF41-0AB0 .  
DIGITAL OUTPUT F-DO 8 X DC 24V/2A PM FAILSAFE DIGITAL OUTPUT P-M SWITCHING UP TO CATEGORY 4 (EN954-1), SIL 3 (IEC 61508)



Figure similar

| Supply voltage                              |                |
|---------------------------------------------|----------------|
| Rated value (DC)                            | 24 V; 1L+      |
| Load voltage L+                             |                |
| • Rated value (DC)                          | 24 V; 2L+, 3L+ |
| Input current                               |                |
| from supply voltage 1L+, max.               | 75 mA          |
| from load voltage 2L+ (without load), max.  | 100 mA         |
| from load voltage 3L+ (without load), max.  | 100 mA         |
| from backplane bus 5 V DC, max.             | 100 mA         |
| Power loss                                  |                |
| Power loss, typ.                            | 12 W           |
| Digital outputs                             |                |
| Number of digital outputs                   | 8              |
| Short-circuit protection                    | Yes            |
| Limitation of inductive shutdown voltage to | L+ (-33 V)     |
| Switching capacity of the outputs           |                |
| • on lamp load, max.                        | 5 W            |
| Output voltage                              |                |

|                                                                |                                                                     |
|----------------------------------------------------------------|---------------------------------------------------------------------|
| • for signal "1" without series diode, min.                    | L+ (-1.0 V)                                                         |
| <b>Output current</b>                                          |                                                                     |
| • for signal "1" rated value                                   | 2 A                                                                 |
| • for signal "1" permissible range for 0 to 40 °C, min.        | 7 mA                                                                |
| • for signal "1" permissible range for 0 to 40 °C, max.        | 2 A; 2 A for horizontal installation, 1 A for vertical installation |
| • for signal "1" permissible range for 40 to 60 °C, min.       | 7 mA                                                                |
| • for signal "1" permissible range for 40 to 60 °C, max.       | 1 A; for horizontal installation                                    |
| • for signal "0" residual current, max.                        | 0.5 mA                                                              |
| <b>Switching frequency</b>                                     |                                                                     |
| • with resistive load, max.                                    | 30 Hz                                                               |
| • with inductive load, max.                                    | 2 Hz                                                                |
| • on lamp load, max.                                           | 10 Hz                                                               |
| <b>Total current of the outputs (per group)</b>                |                                                                     |
| <b>horizontal installation</b>                                 |                                                                     |
| — up to 40 °C, max.                                            | 7.5 A                                                               |
| — up to 60 °C, max.                                            | 5 A                                                                 |
| <b>vertical installation</b>                                   |                                                                     |
| — up to 40 °C, max.                                            | 5 A                                                                 |
| <b>Cable length</b>                                            |                                                                     |
| • shielded, max.                                               | 200 m; 200 m for SIL3, AK 6, Cat 4                                  |
| • unshielded, max.                                             | 200 m                                                               |
| <b>Interrupts/diagnostics/status information</b>               |                                                                     |
| <b>Alarms</b>                                                  |                                                                     |
| • Diagnostic alarm                                             | Yes; Parameterizable                                                |
| <b>Diagnostic messages</b>                                     |                                                                     |
| • Diagnostic information readable                              | Yes                                                                 |
| <b>Diagnostics indication LED</b>                              |                                                                     |
| • Fail-safe operation                                          | Yes                                                                 |
| • Group error SF (red)                                         | Yes                                                                 |
| <b>Potential separation</b>                                    |                                                                     |
| <b>Potential separation digital outputs</b>                    |                                                                     |
| • between the channels                                         | Yes                                                                 |
| • between the channels, in groups of                           | 4                                                                   |
| • between the channels and backplane bus                       | Yes                                                                 |
| • between the channels and the power supply of the electronics | Yes                                                                 |
| <b>Isolation</b>                                               |                                                                     |

|                                                                              |                                                                                                                                                                                    |
|------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Isolation tested with                                                        | 500V DC/350V AC                                                                                                                                                                    |
| <b>Standards, approvals, certificates</b>                                    |                                                                                                                                                                                    |
| CE mark                                                                      | Yes                                                                                                                                                                                |
| UL approval                                                                  | Yes; File E239877                                                                                                                                                                  |
| FM approval                                                                  | Yes; CofC 3028431                                                                                                                                                                  |
| RCM (formerly C-TICK)                                                        | Yes                                                                                                                                                                                |
| KC approval                                                                  | Yes                                                                                                                                                                                |
| EAC (formerly Gost-R)                                                        | Yes                                                                                                                                                                                |
| EN 50155                                                                     | No                                                                                                                                                                                 |
| <b>Highest safety class achievable in safety mode</b>                        |                                                                                                                                                                                    |
| • acc. to EN 954                                                             | Cat. 4                                                                                                                                                                             |
| • SIL acc. to IEC 61508                                                      | SIL 3                                                                                                                                                                              |
| <b>Ambient conditions</b>                                                    |                                                                                                                                                                                    |
| <b>Ambient temperature during operation</b>                                  |                                                                                                                                                                                    |
| • min.                                                                       | -25 °C                                                                                                                                                                             |
| • max.                                                                       | 60 °C                                                                                                                                                                              |
| <b>Extended ambient conditions</b>                                           |                                                                                                                                                                                    |
| • relative to ambient temperature-atmospheric pressure-installation altitude | Tmin ... Tmax at 1080 hPa ... 795 hPa (-1000 m ... +2000 m)                                                                                                                        |
| <b>Relative humidity</b>                                                     |                                                                                                                                                                                    |
| — With condensation, tested in accordance with IEC 60068-2-38, max.          | 100 %; RH incl. condensation/frost (no commissioning under condensation conditions)                                                                                                |
| <b>Resistance</b>                                                            |                                                                                                                                                                                    |
| — against biologically active substances / conformity with EN 60721-3-3      | 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!                 |
| — against chemically active substances / conformity with EN 60721-3-3        | 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! |
| — against mechanically active substances / conformity with EN 60721-3-3      | Yes; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused interfaces during operation!                                                              |
| <b>Connection method</b>                                                     |                                                                                                                                                                                    |
| required front connector                                                     | 40-pin                                                                                                                                                                             |
| <b>Dimensions</b>                                                            |                                                                                                                                                                                    |
| Width                                                                        | 80 mm                                                                                                                                                                              |
| Height                                                                       | 125 mm                                                                                                                                                                             |
| Depth                                                                        | 120 mm                                                                                                                                                                             |
| <b>Weights</b>                                                               |                                                                                                                                                                                    |
| Weight, approx.                                                              | 465 g                                                                                                                                                                              |
| <b>last modified:</b>                                                        | 12.09.2015                                                                                                                                                                         |