



SIMATIC S7-300, Front connector for signal modules with screw contacts, 20-pole

| General information                                                             |                                                                                            |
|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Product type designation                                                        | Front connector                                                                            |
| Ambient conditions                                                              |                                                                                            |
| Ambient temperature during operation                                            |                                                                                            |
| • min.                                                                          | 0 °C                                                                                       |
| • max.                                                                          | 60 °C                                                                                      |
| Ambient temperature during storage/transportation                               |                                                                                            |
| • min.                                                                          | -40 °C                                                                                     |
| • max.                                                                          | 70 °C                                                                                      |
| Connection method                                                               |                                                                                            |
| Connection I/O signals                                                          |                                                                                            |
| • Connection method                                                             | Screw terminals                                                                            |
| • Number of lines per connection                                                | 1; or combination of 2 conductors of up to 1.5 mm <sup>2</sup> (total) in a shared ferrule |
| Conductor cross-section in mm <sup>2</sup>                                      |                                                                                            |
| — Connectable cable cross-sections for massive cables, min.                     | 0.25 mm <sup>2</sup>                                                                       |
| — Connectable cable cross-sections for massive cables, min.                     | 1.5 mm <sup>2</sup>                                                                        |
| — Connectable cable cross-sections for flexible cables without end sleeve, min. | 0.25 mm <sup>2</sup>                                                                       |
| — Connectable cable cross-sections for flexible cables without end sleeve, max. | 1.5 mm <sup>2</sup>                                                                        |
| — Connectable cable cross-sections for flexible cables with end sleeve, min.    | 0.25 mm <sup>2</sup>                                                                       |
| — Connectable cable cross-sections for flexible cables with end sleeve, max.    | 1.5 mm <sup>2</sup>                                                                        |
| Conductor cross-section acc. to AWG                                             |                                                                                            |
| — Connectable cable cross-sections for massive cables, min.                     | 24                                                                                         |
| — Connectable cable cross-sections for massive cables, min.                     | 16                                                                                         |
| — Connectable cable cross-sections for flexible cables without end sleeve, min. | 24                                                                                         |
| — Connectable cable cross-sections for flexible cables without end sleeve, max. | 16                                                                                         |
| — Connectable cable cross-sections for flexible cables with end sleeve, min.    | 24                                                                                         |
| — Connectable cable cross-sections for flexible cables with end sleeve, max.    | 16                                                                                         |
| Wire end processing                                                             |                                                                                            |

|                                                       |                                                                                              |
|-------------------------------------------------------|----------------------------------------------------------------------------------------------|
| — Stripped length of cables, min.                     | 6 mm                                                                                         |
| — Stripped length of cables, max.                     | 6 mm                                                                                         |
| — End sleeve acc. to DIN 46228 without plastic sleeve | Design A, 5 mm to 7 mm long                                                                  |
| — End sleeve acc. to DIN 46228 with plastic sleeve    | Design E, up to 6 mm long                                                                    |
| <b>Mounting</b>                                       |                                                                                              |
| — Tool                                                | Screwdriver, conical design, 3 mm to 3.5 mm                                                  |
| — Tightening torque, min.                             | 0.4 N·m                                                                                      |
| — Tightening torque, max.                             | 0.7 N·m                                                                                      |
| <b>Dimensions</b>                                     |                                                                                              |
| Width                                                 | 23 mm                                                                                        |
| Height                                                | 131 mm                                                                                       |
| Depth                                                 | 36 mm                                                                                        |
| <b>Weights</b>                                        |                                                                                              |
| Weight, approx.                                       | 70 g                                                                                         |
| <b>last modified:</b>                                 | 12/18/2020  |