



Figure similar

\*\*\*spare part\*\*\* SIPLUS ET 200M IM153-4 PN IO based on 6ES7153-4AA01-0XB0 with conformal coating, -25...+70 °C, for max. 12 S7-300 modules, extended functions: isochronous real time communication class 1 and 2, module exchange without PG, operation without MMC, maintenance support of new IO modules

| General information                                         |                                                                                                                                  |
|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Product type designation                                    | IM 153-4 PN                                                                                                                      |
| Vendor identification (VendorID)                            | 002AH                                                                                                                            |
| Device identifier (DeviceID)                                | 0302H                                                                                                                            |
| based on                                                    | <a href="#">6ES7153-4AA01-0XB0</a>                                                                                               |
| Engineering with                                            |                                                                                                                                  |
| • STEP 7 configurable/integrated from version               | see entry ID: 109746275                                                                                                          |
| Supply voltage                                              |                                                                                                                                  |
| Rated value (DC)                                            | 24 V                                                                                                                             |
| permissible range, lower limit (DC)                         | 20.4 V                                                                                                                           |
| permissible range, upper limit (DC)                         | 28.8 V                                                                                                                           |
| external protection for power supply lines (recommendation) | In a construction with grounded reference potential, a fuse is necessary for redundant interface modules (Recommendation: 2.5 A) |
| Mains buffering                                             |                                                                                                                                  |
| • Mains/voltage failure stored energy time                  | 5 ms                                                                                                                             |
| Input current                                               |                                                                                                                                  |
| Current consumption, max.                                   | 600 mA                                                                                                                           |
| Inrush current, typ.                                        | 4 A                                                                                                                              |
| I <sup>2</sup> t                                            | 0.09 A <sup>2</sup> ·s                                                                                                           |
| output voltage / header                                     |                                                                                                                                  |
| Rated value (DC)                                            | 5 V                                                                                                                              |
| Output current                                              |                                                                                                                                  |
| for backplane bus (5 V DC), max.                            | 1.5 A                                                                                                                            |
| Power loss                                                  |                                                                                                                                  |
| Power loss, typ.                                            | 6 W                                                                                                                              |
| Address area                                                |                                                                                                                                  |
| Addressing volume                                           |                                                                                                                                  |
| • Inputs                                                    | 192 byte                                                                                                                         |
| • Outputs                                                   | 192 byte                                                                                                                         |
| Hardware configuration                                      |                                                                                                                                  |
| number of modules per DP device interface, max.             | 12                                                                                                                               |
| Protocols                                                   |                                                                                                                                  |
| Bus protocol/transmission protocol                          | PROFINET IO                                                                                                                      |
| Protocols (Ethernet)                                        |                                                                                                                                  |
| • TCP/IP                                                    | Yes                                                                                                                              |
| Interrupts/diagnostics/status information                   |                                                                                                                                  |
| Diagnostics indication LED                                  |                                                                                                                                  |
| • LINK LED                                                  | Yes; green LED                                                                                                                   |
| • RX/TX LED                                                 | Yes; Yellow LED                                                                                                                  |

| Potential separation                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                      |         |                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------|
| Potential separation exists                                                                                                                                                                                                                             | Yes                                                                                                                                                                                                                                  |         |                |
| Isolation                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                      |         |                |
| Isolation tested with                                                                                                                                                                                                                                   | 500 V DC                                                                                                                                                                                                                             |         |                |
| Degree and class of protection                                                                                                                                                                                                                          |                                                                                                                                                                                                                                      |         |                |
| IP degree of protection                                                                                                                                                                                                                                 | IP20                                                                                                                                                                                                                                 |         |                |
| Ambient conditions                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                      |         |                |
| Ambient temperature during operation                                                                                                                                                                                                                    |                                                                                                                                                                                                                                      |         |                |
| <ul style="list-style-type: none"><li>• min.</li><li>• max.</li></ul>                                                                                                                                                                                   | -25 °C; = Tmin<br>70 °C; = Tmax; 60 °C @ UL/cUL, ATEX and FM use                                                                                                                                                                     |         |                |
| Ambient temperature during storage/transportation                                                                                                                                                                                                       |                                                                                                                                                                                                                                      |         |                |
| <ul style="list-style-type: none"><li>• min.</li><li>• max.</li></ul>                                                                                                                                                                                   | -40 °C<br>70 °C                                                                                                                                                                                                                      |         |                |
| Altitude during operation relating to sea level                                                                                                                                                                                                         |                                                                                                                                                                                                                                      |         |                |
| <ul style="list-style-type: none"><li>• Installation altitude above sea level, max.</li><li>• Ambient air temperature-barometric pressure-altitude</li></ul>                                                                                            | 5 000 m<br>Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax -20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m)           |         |                |
| Relative humidity                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                      |         |                |
| <ul style="list-style-type: none"><li>• With condensation, tested in accordance with IEC 60068-2-38, max.</li></ul>                                                                                                                                     | 100 %; RH incl. condensation/frost (no commissioning under condensation conditions)                                                                                                                                                  |         |                |
| Resistance                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                      |         |                |
| Use in stationary industrial systems                                                                                                                                                                                                                    |                                                                                                                                                                                                                                      |         |                |
| <ul style="list-style-type: none"><li>— to biologically active substances according to EN 60721-3-3</li><li>— to chemically active substances according to EN 60721-3-3</li><li>— to mechanically active substances according to EN 60721-3-3</li></ul> | Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request<br>Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *<br>Yes; Class 3S4 incl. sand, dust, * |         |                |
| Use on ships/at sea                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                      |         |                |
| <ul style="list-style-type: none"><li>— to biologically active substances according to EN 60721-3-6</li><li>— to chemically active substances according to EN 60721-3-6</li><li>— to mechanically active substances according to EN 60721-3-6</li></ul> | Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request<br>Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *<br>Yes; Class 6S3 incl. sand, dust; *                      |         |                |
| Usage in industrial process technology                                                                                                                                                                                                                  |                                                                                                                                                                                                                                      |         |                |
| <ul style="list-style-type: none"><li>— Against chemically active substances acc. to EN 60654-4</li><li>— Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04</li></ul>                                          | Yes; Class 3 (excluding trichlorethylene)<br><br>Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil) |         |                |
| Remark                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                      |         |                |
| <ul style="list-style-type: none"><li>— Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04</li></ul>                                                                                             | * The supplied plug covers must remain in place over the unused interfaces during operation!                                                                                                                                         |         |                |
| Dimensions                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                      |         |                |
| Width                                                                                                                                                                                                                                                   | 40 mm                                                                                                                                                                                                                                |         |                |
| Height                                                                                                                                                                                                                                                  | 125 mm                                                                                                                                                                                                                               |         |                |
| Depth                                                                                                                                                                                                                                                   | 118 mm                                                                                                                                                                                                                               |         |                |
| Weights                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                      |         |                |
| Weight, approx.                                                                                                                                                                                                                                         | 215 g; approx.                                                                                                                                                                                                                       |         |                |
| Classifications                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                      |         |                |
|                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                      | Version | Classification |
|                                                                                                                                                                                                                                                         | eClass                                                                                                                                                                                                                               | 14      | 27-24-26-08    |
|                                                                                                                                                                                                                                                         | eClass                                                                                                                                                                                                                               | 12      | 27-24-26-08    |
|                                                                                                                                                                                                                                                         | eClass                                                                                                                                                                                                                               | 9.1     | 27-24-26-08    |
|                                                                                                                                                                                                                                                         | eClass                                                                                                                                                                                                                               | 9       | 27-24-26-08    |
|                                                                                                                                                                                                                                                         | eClass                                                                                                                                                                                                                               | 8       | 27-24-26-08    |
|                                                                                                                                                                                                                                                         | eClass                                                                                                                                                                                                                               | 7.1     | 27-24-26-08    |
|                                                                                                                                                                                                                                                         | eClass                                                                                                                                                                                                                               | 6       | 27-24-26-08    |
|                                                                                                                                                                                                                                                         | ETIM                                                                                                                                                                                                                                 | 9       | EC001604       |

|        |    |             |
|--------|----|-------------|
| ETIM   | 8  | EC001604    |
| ETIM   | 7  | EC001604    |
| IDEA   | 4  | 3564        |
| UNSPSC | 15 | 32-15-17-05 |

Approvals / Certificates

|                          |     |
|--------------------------|-----|
| General Product Approval | EMV |
|--------------------------|-----|

Miscellaneous

  
EG-Konf.

[Manufacturer Declaration](#)



  
UL

[KC](#)

|     |                                |
|-----|--------------------------------|
| EMV | For use in hazardous locations |
|-----|--------------------------------|

  
RCM

  
IECEX

  
ATEX

[CCC-Ex](#)

last modified:

12/8/2024 