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## Data sheet 6ES7138-4FA05-0AB0




*** Spare part *** SIMATIC DP, Electronics module f. ET200S, 4/8 F-DI PROFIsafe, 24 V DC, 30 mm overall width, up to PL E (ISO 13849), Up to SIL3 (IEC 61508), can also be used in PROFINET configuration with IM 151-3 HF

| | |
|---|---|
| **Supply voltage** | |
| Rated value (DC) | 24 V |
| **Encoder supply** | |
| Number of outputs | 2 |
| Type of output voltage | min. L+ (-1.5 V) |
| Short-circuit protection | Yes; Electronic (response threshold 0.7 A to 1.8 A) |
| Output current | |
| ● Rated value | 300 mA |
| ● permissible range, lower limit | 0 mA |
| ● permissible range, upper limit | 300 mA |
| **Power loss** | |
| Power loss, typ. | 4 W |
| **Address area** | |
| Address space per module | |
| ● Inputs | 6 byte |
| ● Outputs | 4 byte |
| **Digital inputs** | |
| Number of digital inputs | 8; 8 (one-channel); 4 (two-channel) |
| Input characteristic curve in accordance with IEC 61131, type 1 | Yes |
| Input voltage | |
| ● Type of input voltage | DC |
| ● Rated value (DC) | 24 V |
| Input current | |
| ● for signal "1", typ. | 3.7 mA |
| Input delay (for rated value of input voltage) | |
| for standard inputs | |
| — parameterizable | Yes |
| — at "0" to "1", min. | 0.3 ms |
| — at "0" to "1", max. | 17 ms |
| — at "1" to "0", min. | 0.3 ms |
| — at "1" to "0", max. | 17 ms |
| Cable length | |
| ● shielded, max. | 500 m |
| ● unshielded, max. | 500 m |
| **Encoder** | |
| Connectable encoders | |
| ● 2-wire sensor | No |
| — permissible quiescent current (2-wire sensor), max. | 0.6 mA; max. |
| **Interrupts/diagnostics/status information** | |


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| | |
|---|---|
| Diagnostics function | Yes |
| Alarms | |
| ● Diagnostic alarm | Yes |
| Diagnoses | |
| ● Diagnostic information readable | Yes |
| ● Short-circuit | Yes |
| Diagnostics indication LED | |
| ● Group error SF (red) | Yes |
| ● Status indicator digital input (green) | Yes |
| **Potential separation** | |
| Potential separation digital inputs | |
| ● between the channels | No |
| ● between the channels and backplane bus | Yes |
| ● Between the channels and load voltage L+ | No |
| **Standards, approvals, certificates** | |
| Highest safety class achievable in safety mode | |
| ● acc. to EN 954 | 4 |
| ● Performance level according to ISO 13849-1 | PLe |
| ● SIL acc. to IEC 61508 | SIL 2 (single-channel), SIL 3 (two-channel) |
| **Dimensions** | |
| Width | 30 mm |
| Height | 81 mm |
| Depth | 52 mm |
| **Weights** | |
| Weight, approx. | 78 g |

**Classifications**

| | Version | Classification |
|---|---|---|
| eClass | 16 | 27-24-26-04 |
| eClass | 14 | 27-24-26-04 |
| eClass | 12 | 27-24-26-04 |
| eClass | 9.1 | 27-24-26-04 |
| eClass | 9 | 27-24-26-04 |
| eClass | 8 | 27-24-26-04 |
| eClass | 7.1 | 27-24-26-04 |
| eClass | 6 | 27-24-26-04 |
| ETIM | 10 | EC001599 |
| ETIM | 9 | EC001599 |
| ETIM | 8 | EC001599 |
| ETIM | 7 | EC001599 |
| IDEA | 4 | 3566 |
| UNSPSC | 15 | 32-15-17-05 |

**Approvals / Certificates**

**General Product Approval**

Manufacturer Declaration | Miscellaneous

| General Product Approval | EMV | For use in hazardous locations |
|---|---|---|

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| For use in hazardous locations | | | Functional Saftey | | Maritime application |
|---|---|---|---|---|---|
| IECEx | Miscellaneous | CCC-Ex | TUEV | Type Examination Certificate | ABS |

| Maritime application | | | | | |
|---|---|---|---|---|---|
| BUREAU VERITAS | DNV | LRS | NK / Nippon Kaiji Kyokai | PRS | RINA |

| Maritime application |
|---|
| KR (Korean Register of Shipping) |

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