

## Data sheet

## 6ES7142-4BD00-0AB0



SIMATIC DP, Electronic modules for ET 200 PRO 4 DO 24 V DC, 2.0A High Feature, Channel diagnostics; short-circuit and wire break; incl. bus module, Connection module IO 6ES7194-4..00-0AA0 order separately

| Supply voltage   |   |
|--|---|
| Load voltage 2L+   |   |
| <ul style="list-style-type: none"> <li>Rated value (DC)</li> <li>Short-circuit protection</li> <li>Reverse polarity protection</li> </ul>  | 24 V<br>Yes; per channel, electronic<br>Yes; against destruction; load increasing |
| Input current  |   |
| from load voltage 2L+ (without load), max.   | 40 mA   |
| from backplane bus 3.3 V DC, max.  | 30 mA   |
| Power loss   |   |
| Power loss, typ.   | 2.5 W   |
| Address area   |   |
| Address space per module   |   |
| <ul style="list-style-type: none"> <li>Address space per module, max.</li> </ul>   | 1 byte  |
| Digital outputs  |   |
| Number of digital outputs  | 4   |
| Current-sourcing   | Yes   |
| output type acc. to IEC 61131, type 2  | Yes   |
| Short-circuit protection   | Yes   |
| <ul style="list-style-type: none"> <li>Response threshold, typ.</li> </ul>   | 2.8 A   |
| Limitation of inductive shutdown voltage to  | 2L+ (-47 V)   |
| Controlling a digital input  | Yes   |
| Switching capacity of the outputs  |   |
| <ul style="list-style-type: none"> <li>on lamp load, max.</li> </ul>   | 10 W  |
| Load resistance range  |   |
| <ul style="list-style-type: none"> <li>lower limit</li> <li>upper limit</li> </ul>   | 12 Ω<br>4 kΩ  |
| Output voltage   |   |
| <ul style="list-style-type: none"> <li>for signal "1", min.</li> </ul>   | 2L+ (-0,8 V)  |
| Output current   |   |
| <ul style="list-style-type: none"> <li>for signal "1" rated value</li> <li>for signal "0" residual current, max.</li> </ul>                | 2 A<br>0.5 mA   |
| Parallel switching of two outputs  |   |
| <ul style="list-style-type: none"> <li>for uprating</li> <li>for redundant control of a load</li> </ul>                                    | No<br>Yes   |
| Switching frequency  |   |
| <ul style="list-style-type: none"> <li>with resistive load, max.</li> <li>with inductive load, max.</li> <li>on lamp load, max.</li> </ul> | 100 Hz<br>0.5 Hz<br>1 Hz  |
| Total current of the outputs (per group)   |   |

|  |   |                       |
|--|---|-----------------------|
| all mounting positions   |   |                       |
| — up to 55 °C, max.  | 4 A   |                       |
| Cable length   |   |                       |
| • shielded, max.   | 30 m  |                       |
| • unshielded, max.   | 30 m  |                       |
| <b>Interrupts/diagnostics/status information</b>                                       |   |                       |
| Diagnostics function   | Yes   |                       |
| Substitute values connectable  | Yes   |                       |
| <b>Alarms</b>  |   |                       |
| • Diagnostic alarm   | Yes   |                       |
| <b>Diagnoses</b>   |   |                       |
| • Diagnostic information readable  | Yes   |                       |
| • Wire break   | Yes; channel by channel   |                       |
| • Short-circuit  | Yes; channel by channel   |                       |
| <b>Diagnostics indication LED</b>  |   |                       |
| • Group error SF (red)   | Yes   |                       |
| • Status indicator digital output (green)  | Yes   |                       |
| • Channel fault indicator F (red)  | Yes   |                       |
| <b>Potential separation</b>  |   |                       |
| between backplane bus and all other circuit components                                 | Yes   |                       |
| <b>Potential separation digital outputs</b>  |   |                       |
| • between the channels   | No  |                       |
| • between the channels and backplane bus   | Yes   |                       |
| <b>Isolation</b>   |   |                       |
| Isolation tested with  | 707 V DC (type test)  |                       |
| <b>Standards, approvals, certificates</b>  |   |                       |
| Suitable for safety-related tripping of standard modules                               | Yes   |                       |
| <b>Highest safety class achievable for safety-related tripping of standard modules</b> |   |                       |
| • Performance level according to ISO 13849-1   | PL d  |                       |
| • Category according to ISO 13849-1  | Cat. 3  |                       |
| • SIL acc. to IEC 62061  | SIL 2   |                       |
| • remark on safety-oriented shutdown   | <a href="https://support.industry.siemens.com/cs/de/en/view/39198632">https://support.industry.siemens.com/cs/de/en/view/39198632</a> |                       |
| <b>Dimensions</b>  |   |                       |
| Width  | 45 mm   |                       |
| Height   | 130 mm  |                       |
| Depth  | 35 mm; without terminal module  |                       |
| <b>Weights</b>   |   |                       |
| Weight, approx.  | 140 g   |                       |
| <b>Classifications</b>   |   |                       |
|  | <b>Version</b>  | <b>Classification</b> |
| 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           |
| <b>Approvals / Certificates</b>  |   |                       |
| <b>General Product Approval</b>  | <b>Maritime application</b>   | <b>Environment</b>    |

[Miscellaneous](#)



[CCS \(China Classification Society\)](#)

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10/23/2025

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