



SIMATIC DP, electronic module for ET 200 PRO, 4 DO 24 V DC, 2.0A; Module diagnostics; incl. bus module, Connection module IO 6ES7194-4..00-0AA0 order separately

Supply voltage	
Load voltage 2L+	
• Rated value (DC)	24 V
• Short-circuit protection	Yes; per channel, electronic
• Reverse polarity protection	Yes; against destruction; load increasing
Input current	
from load voltage 2L+ (without load), max.	20 mA
from backplane bus 3.3 V DC, max.	20 mA
Power loss	
Power loss, typ.	2 W
Address area	
Address space per module	
• Address space per module, max.	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
• Response threshold, typ.	2.8 A
Limitation of inductive shutdown voltage to	2L+ (-47 V)
Controlling a digital input	Yes
Switching capacity of the outputs	
• on lamp load, max.	10 W
Load resistance range	
• lower limit	12 Ω
• upper limit	4 kΩ
Output voltage	
• for signal "1", min.	2L+ (-0,8 V)
Output current	
• for signal "1" rated value	2 A
• for signal "0" residual current, max.	0.5 mA
Parallel switching of two outputs	
• for uprating	No
• for redundant control of a load	Yes
Switching frequency	
• with resistive load, max.	100 Hz
• with inductive load, max.	0.5 Hz
• on lamp load, max.	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																																													
Interrupts/diagnostics/status information																																														
Diagnostics function	Yes																																													
Alarms																																														
• Diagnostic alarm	Yes																																													
Diagnoses																																														
• Diagnostic information readable	Yes																																													
• Short-circuit	Yes; Short-circuit of outputs to ground; module by module																																													
Diagnostics indication LED																																														
• Group error SF (red)	Yes																																													
• Status indicator digital output (green)	Yes																																													
Potential separation																																														
between backplane bus and all other circuit components	Yes																																													
Potential separation digital outputs																																														
• between the channels	No																																													
• between the channels and backplane bus	Yes																																													
Isolation																																														
Isolation tested with	707 V DC (type test)																																													
Standards, approvals, certificates																																														
Suitable for safety-related tripping of standard modules	Yes																																													
Highest safety class achievable for safety-related tripping of standard modules																																														
• 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	https://www.modulpic.com/?s=6ES7142-4BD00-0AA0																																													
Dimensions																																														
Width	45 mm																																													
Height	130 mm																																													
Depth	35 mm																																													
Weights																																														
Weight, approx.	140 g																																													
Classifications																																														
	<table><tr><th></th><th>Version</th><th>Classification</th></tr><tr><td>eClass</td><td>16</td><td>27-24-26-04</td></tr><tr><td>eClass</td><td>14</td><td>27-24-26-04</td></tr><tr><td>eClass</td><td>12</td><td>27-24-26-04</td></tr><tr><td>eClass</td><td>9.1</td><td>27-24-26-04</td></tr><tr><td>eClass</td><td>9</td><td>27-24-26-04</td></tr><tr><td>eClass</td><td>8</td><td>27-24-26-04</td></tr><tr><td>eClass</td><td>7.1</td><td>27-24-26-04</td></tr><tr><td>eClass</td><td>6</td><td>27-24-26-04</td></tr><tr><td>ETIM</td><td>10</td><td>EC001599</td></tr><tr><td>ETIM</td><td>9</td><td>EC001599</td></tr><tr><td>ETIM</td><td>8</td><td>EC001599</td></tr><tr><td>ETIM</td><td>7</td><td>EC001599</td></tr><tr><td>IDEA</td><td>4</td><td>3566</td></tr><tr><td>UNSPSC</td><td>15</td><td>32-15-17-05</td></tr></table>		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
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[Manufacturer Declaration](#)

[Miscellaneous](#)



General Product Approval

Maritime application



[China RoHS](#)



Maritime application



[NK / Nippon Kaiji Kyokai](#)



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

Maritime application

[KR \(Korean Register of Shipping\)](#)

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