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SIMATIC DP, Electronic modules for ET 200 PRO 8 DO 24 V DC, 0.5 A Module diagnostics; 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 Yes; per channel, electronic Yes; against destruction; load increasing
Input current	
from load voltage 2L+ (without load), max.	30 mA
from backplane bus 3.3 V DC, max.	30 mA
Power loss	
Power loss, typ.	2 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	8
Current-sourcing	Yes
output type acc. to IEC 61131, type 0.5	Yes
Short-circuit protection	Yes
<ul style="list-style-type: none"> <li>Response threshold, typ.</li> </ul>	0.7 A
Limitation of inductive shutdown voltage to	2L+ (-47 V)
Controlling a digital input	Yes; Isolation between 1L+ and 2L+ is no longer provided, as 1M and 2M are jumpered
Switching capacity of the outputs	
<ul style="list-style-type: none"> <li>on lamp load, max.</li> </ul>	5 W
Load resistance range	
<ul style="list-style-type: none"> <li>lower limit</li> <li>upper limit</li> </ul>	48 Ω 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>	0.5 A 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 Yes
Switching frequency	

<ul style="list-style-type: none"> <li>with resistive load, max.</li> </ul>	100 Hz		
<ul style="list-style-type: none"> <li>with inductive load, max.</li> </ul>	0.5 Hz		
<ul style="list-style-type: none"> <li>on lamp load, max.</li> </ul>	1 Hz		
<b>Total current of the outputs (per group)</b>			
all mounting positions			
— up to 55 °C, max.	4 A		
<b>Cable length</b>			
<ul style="list-style-type: none"> <li>shielded, max.</li> </ul>	30 m		
<ul style="list-style-type: none"> <li>unshielded, max.</li> </ul>	30 m		
<b>Interrupts/diagnostics/status information</b>			
Diagnostics function	Yes		
<b>Alarms</b>			
<ul style="list-style-type: none"> <li>Diagnostic alarm</li> </ul>	Yes		
<b>Diagnoses</b>			
<ul style="list-style-type: none"> <li>Diagnostic information readable</li> </ul>	Yes		
<ul style="list-style-type: none"> <li>Short-circuit</li> </ul>	Yes; Short-circuit of outputs to ground; module by module		
<b>Diagnostics indication LED</b>			
<ul style="list-style-type: none"> <li>Group error SF (red)</li> </ul>	Yes		
<ul style="list-style-type: none"> <li>Status indicator digital output (green)</li> </ul>	Yes		
<b>Potential separation</b>			
between backplane bus and all other circuit components	Yes		
<b>Potential separation digital outputs</b>			
<ul style="list-style-type: none"> <li>between the channels</li> </ul>	No		
<ul style="list-style-type: none"> <li>between the channels and backplane bus</li> </ul>	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>			
<ul style="list-style-type: none"> <li>Performance level according to ISO 13849-1</li> </ul>	PL d		
<ul style="list-style-type: none"> <li>Category according to ISO 13849-1</li> </ul>	Cat. 3		
<ul style="list-style-type: none"> <li>SIL acc. to IEC 62061</li> </ul>	SIL 2		
<ul style="list-style-type: none"> <li>remark on safety-oriented shutdown</li> </ul>	<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		
<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>other</b>	<b>Environment</b>



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10/23/2025

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