

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+

- | | |
|-------------------------------|-------------------------------------------|
| • 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. | 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

- | | |
|----------------------------------|--------|
| • Address space per module, max. | 1 byte |
|----------------------------------|--------|

Digital outputs

- | | |
|----------------------------|-------|
| Number of digital outputs | 8 |
| Short-circuit protection | Yes |
| • Response threshold, typ. | 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	
• on lamp load, max.	5 W
Load resistance range	
• lower limit	48 Ω
• upper limit	4 kΩ
Output voltage	
• for signal "1", min.	2L+ (-0,8 V)
Output current	
• for signal "1" rated value	0.5 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
Diagnostic messages	
• 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
- SILCL according to IEC 62061 SILCL 2

Dimensions

Width 45 mm

Height 130 mm

Depth 35 mm

Weights

Weight, approx. 140 g

last modified: 11/16/2019