SIEMENS

Data sheet

6ES7322-1BH01-0AA0



SIMATIC S7-300, Digital output SM 322, isolated, 16 DO, 24 V DC, 0.5A, 1x 20-pole, Total current 4 A/group (8 A/module)

Figure s	imilar
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Supply voltage Load voltage L+ • Rated value (DC) 24 V • permissible range, upper limit (DC) 28 V Input current form load voltage L+ (without load), max. 80 mA from backplane bus 5 V DC, max. 80 mA Power loss, typ. 4.9 W Digital outputs 16 Number of digital outputs 16 Short-circuit protection Yes; Electronic • Response threshold, typ. 1 A Limitation of inductive shuthdown voltage to L+ (-53 V) Controlling a digital input Yes Switching capacity of the outputs 5 W Load resistance range 4 8 Ω • on lamp load, max. 5 W Load resistance range 4 kΩ • for signal "1" rinin. L+ (-0.8 V) Output current 4 KΩ • for signal "1" permissible range for 0 to 40 °C, min. 5 mA • for signal "1" permissible range for 0 to 40 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" permissible range for 0 to 40 °C, min. 5 mA		
• Rated value (DC) 24 V • permissible range, lower limit (DC) 20.4 V • permissible range, upper limit (DC) 28.8 V Input current from load voltage L+ (without load), max. 80 mA from backplane bus 5 V DC, max. 80 mA Power loss	Supply voltage	
• permissible range, lower limit (DC) 20.4 V • permissible range, upper limit (DC) 28.8 V Input current from bad voltage L+ (without load), max. 80 mA from backplane bus 5 V DC, max. 80 mA Power loss. Power loss, typ. 4.9 W Digital outputs 16 Number of digital outputs 16 Short-circuit protection Yes; Electronic • Response threshold, typ. 1 A Limitation of inductive shutdown voltage to L+ (-53 V) Controlling a digital input Yes 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" remissible range for 0 to 40 °C, min. 5 mA • for signal *1" permissible range for 0 to 40 °C, min. 5 mA • for signal *1" permissible range for 0 to 0 60 °C, min. 5 mA • for signal *1" permissible range for 0 to 60 °C, min. 5 mA • for signal *1" permissible range for 0 to 60 °C, min. <td>Load voltage L+</td> <td></td>	Load voltage L+	
• permissible range, upper limit (DC) 28.8 V Input current 60 mA from backplane bus 5 V DC, max. 80 mA Power loss. 90 mA Power loss, typ. 4.9 W Digital outputs 16 Short-circuit protection Yes, Electronic • Response threshold, typ. 1 A Limitation of inductive shutdown voltage to L + (-53 V) Controlling a digital input Yes Switching capacity of the outputs 6 • on lamp load, max. 5 W Load resistance range • • lower limit 48 Ω • upper limit 4 kΩ Output voltage • • for signal *1", min. L + (-0.8 V) Output current 0.5 A • for signal *1" permissible range for 0 to 40 °C, min. 5 mA • for signal *1" permissible range for 0 to 60 °C, min. 5 mA • for signal *1" permissible range for 40 to 60 °C, max. 0.6 A • for signal *1" minimum load current 5 mA • for signal *1" minimum load current 5 mA • for signal	Rated value (DC)	24 V
Input current from load voltage L+ (without load), max. 80 mA from backplane bus 5 V DC, max. 80 mA Power loss 9 Power loss 9 Power loss, typ. 4.9 W Digital outputs 16 Short-circuit protection Yes; Electronic • Response threshold, typ. 1 A Limitation of inductive shutdown voltage to L+ (-53 V) Controlling a digital input Yes Switching capacity of the outputs • on lamp load, max. • on lamp load, max. 5 W Load resistance range • kQ • or signal "1", min. L+ (-0.8 V) Output outrent 4 kQ • or signal "1" ated value 0.5 A • for signal "1" ated value 0.5 A • for signal "1" permissible range for 0 to 40 °C, min. 5 mA • for signal "1" permissible range for 0 to 40 °C, min. 5 mA • for signal "1" permissible range for 0 to 60 °C, min. 5 mA • for signal "1" permissible range for 0 to 60 °C, min. 5 mA • for signal "1" permissible range for 0 to 60 °C, min. 5 mA • for signal "1" mermissible range for 40 to 60 °C, min. 5 mA • for signal "1" mermissible range for 40 to 60 °C, min. 5 mA • for signal "1" mermissible range for 0 to 00	 permissible range, lower limit (DC) 	20.4 V
from load voltage L+ (without load), max. 80 mA from backplane bus 5 V DC, max. 80 mA Power loss 4.9 W Digital outputs 16 Number of digital outputs 16 Stort-circuit protection Yes; Electronic • Response threshold, typ. 1 A Limitation of inductive shutdown voltage to L+ (-53 V) Controlling a digital input Yes Switching capacity of the outputs 5 W Load resistance range 48 Ω • on lamp load, max. 5 W Load resistance range 48 Ω • or signal "1", min. L+ (-0.8 V) Output outge 0.5 A • for signal "1" permissible range for 0 to 40 °C, min. 5 mA • for signal "1" permissible range for 0 to 40 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" minimum load current 5 mA • for signal "1" minimum load current 5 mA • for signal "1" minimum load current 5 mA • for signal "1" minimum load current, max. 0.5 mA	 permissible range, upper limit (DC) 	28.8 V
from backplane bus 5 V DC, max. 80 mA Power loss 4.9 W Digital outputs 16 Short-circuit protection Yes; Electronic • Response threshold, typ. 1 A Limitation of inductive shutdown voltage to L+ (-53 V) Controlling a digital input Yes Switching capacity of the outputs 5 W Load resistance range 6 were limit • lower limit 48 Ω • upper limit 4 kΩ Output voltage 0.5 A • for signal "1" rated value 0.5 A • for signal "1" permissible range for 0 to 40 °C, min. 5 mA • for signal "1" permissible range for 0 to 40 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" minimum load current 5 mA <td< td=""><td>Input current</td><td></td></td<>	Input current	
Power loss 4.9 W Digital outputs 16 Short-circuit protection Yes; Electronic • Response threshold, typ. 1 A Limitation of inductive shutdown voltage to L+ (-53 V) Controlling a digital input Yes Switching capacity of the outputs • on lamp load, max. • on lamp load, max. 5 W Load resistance range • lower limit • lower limit 48 Ω • upper limit 4 kΩ Output voltage 0.5 A • for signal "1" permissible range for 0 to 40 °C, min. 5 mA • for signal "1" permissible range for 0 to 40 °C, min. 5 mA • for signal "1" permissible range for 0 to 40 °C, min. 5 mA • for signal "1" permissible range for 0 to 40 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" permissible range for 0 to 40 °C, min. 5 mA • for signal "1" permissible range for 0 to 60 °C, min. 5 mA • for signal "1" permissible range for 0 to 60 °C, min. 5 mA • for signal "1" permissible range for 0 to 60 °C, min. 5 mA • for signal "0" residual current 5 mA </td <td>from load voltage L+ (without load), max.</td> <td>80 mA</td>	from load voltage L+ (without load), max.	80 mA
Power loss, typ. 4.9 W Digital outputs 16 Number of digital outputs 16 Short-circuit protection Yes; Electronic • Response threshold, typ. 1 A Limitation of inductive shutdown voltage to L+ (-53 V) Controlling a digital input Yes Switching capacity of the outputs 5 W • on lamp load, max. 5 W Load resistance range 6 for signal "1", min. • lower limit 48 Ω • upper limit 4 kΩ Output voltage 0.5 A • for signal "1" rated value 0.5 A • for signal "1" permissible range for 0 to 40 °C, max. 5 mA • for signal "1" permissible range for 0 to 60 °C, max. 0.6 A • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, max. 0.6 A • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, mix. 5 mA • for signal "1" minimum load current 5 mA • for signal "0" residual current, max. 0.5 mA • for signal "0" residual current, max. 0.5 mA • for signal "0" residual current, max. 0.5 mA • for signal "0" residual current, max. 0.5	from backplane bus 5 V DC, max.	80 mA
Digital outputs 16 Number of digital outputs 16 Short-circuit protection Yes; Electronic • Response threshold, typ. 1A Limitation of inductive shutdown voltage to L+ (-53 V) Controlling a digital input Yes Switching capacity of the outputs 5 W • on lamp load, max. 5 W Load resistance range 48 Ω • lower limit 48 Ω • upper limit 4 kΩ Output voltage - • for signal "1", min. L+ (-0.8 V) Output current 0.5 A • for signal "1" permissible range for 0 to 40 °C, min. 5 mA • for signal "1" permissible range for 0 to 40 °C, min. 5 mA • for signal "1" permissible range for 0 to 40 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" permissible range f	Power loss	
Number of digital outputs 16 Short-circuit protection Yes; Electronic • Response threshold, typ. 1 A Limitation of inductive shutdown voltage to L+ (-53 V) Controlling a digital input Yes Switching capacity of the outputs • on lamp load, max. • on lamp load, max. 5 W Load resistance range • • lower limit 48 Ω • upper limit 4 kΩ Output voltage • • for signal "1" rated value 0.5 A • for signal "1" permissible range for 0 to 40 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, max. 0.6 A • for signal "1" permissible range for 40 to 60 °C, max. 0.6 A • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" minimum load current 5 mA • for signal "0" residual current, max. 0.5 mA •	Power loss, typ.	4.9 W
Short-circuit protection Yes; Electronic • Response threshold, typ. 1 A Limitation of inductive shutdown voltage to L + (-53 V) Controlling a digital input Yes Switching capacity of the outputs • on lamp load, max. • on lamp load, max. 5 W Load resistance range • lower limit • lower limit 48 Ω • upper limit 4 kΩ Output voltage • for signal "1", min. • for signal "1" permissible range for 0 to 40 °C, min. 5 mA • for signal "1" permissible range for 0 to 40 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" minimum load current 5 mA • for signal "1" minimum load current 5 mA	Digital outputs	
• Response threshold, typ. 1 A Limitation of inductive shutdown voltage to L+ (-53 V) Controlling a digital input Yes Switching capacity of the outputs 5 W Load resistance range 5 W Isomer limit 48 Ω • upper limit 4 kΩ Output voltage - • for signal "1", min. L+ (-0.8 V) Output current 0.5 A • for signal "1" permissible range for 0 to 40 °C, min. 5 mA • for signal "1" permissible range for 0 to 40 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, max. 0.6 A • for signal "1" permissible range for 40 to 60 °C, max. 0.6 A • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" minimum load current 5 mA • for signal "0" residual current, max. 0.5 mA Output delay with resistive load 100 µs • "0" to "1", max. 100 µs	Number of digital outputs	16
Limitation of inductive shutdow voltage to L+ (-53 V) Controlling a digital input Yes Switching capacity of the outputs • on lamp load, max. • on lamp load, max. 5 W Load resistance range • lower limit • lower limit 48 Ω • upper limit 4 kΩ Output voltage • for signal "1", min. • for signal "1" permissible range for 0 to 40 °C, min. 5 mA • for signal "1" permissible range for 0 to 40 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" minimum load current 5 mA • for signal "1" minimum load current 5 mA • for signal "0" residual current, max. <	Short-circuit protection	Yes; Electronic
Controlling a digital input Yes Switching capacity of the outputs 5 W Load resistance range 5 W Load resistance range 48 Ω • lower limit 48 Ω • upper limit 4 kΩ Output voltage 6 for signal "1", min. • for signal "1" rated value 0.5 A • for signal "1" permissible range for 0 to 40 °C, min. 5 mA • for signal "1" permissible range for 0 to 40 °C, max. 0.6 A • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, max. 0.6 A • for signal "1" permissible range for 40 to 60 °C, max. 0.6 A • for signal "1" permissible range for 40 to 60 °C, max. 0.6 A • for signal "1" permissible range for 40 to 60 °C, max. 0.6 A • for signal "1" minimum load current 5 mA • for signal "1" minimum load current 5 mA • for signal "1" max. 0.5 mA • for 0" to "1", max. 500 µs Parallel switching of two outputs 500 µs	Response threshold, typ.	1 A
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. L+ (-0.8 V) Output current • for signal "1" rated value 0.5 A • for signal "1" permissible range for 0 to 40 °C, min. 5 mA • for signal "1" permissible range for 0 to 40 °C, max. 0.6 A • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, max. 0.6 A • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" minimum load current 5 mA • for signal "1" minimum load current, max. 0.5 mA Output delay with resistive load	Limitation of inductive shutdown voltage to	L+ (-53 V)
• on lamp load, max. 5 W Load resistance range 48 Ω • lower limit 48 Ω • upper limit 4 kΩ Output voltage • for signal "1", min. L+ (-0.8 V) Output current 0.5 A • for signal "1" rated value 0.5 A • for signal "1" permissible range for 0 to 40 °C, min. 5 mA • for signal "1" permissible range for 0 to 40 °C, max. 0.6 A • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, max. 0.6 A • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" minimum load current 5 mA • for signal "1" minimum load current 5 mA • for signal "1" minimum load current 5 mA • for signal "0" residual current, max. 0.5 mA Output delay with resistive load	Controlling a digital input	Yes
Load resistance range • lower limit 48 Ω • upper limit 4 kΩ Output voltage • for signal "1", min. L+ (-0.8 V) Output current 0.5 A • for signal "1" permissible range for 0 to 40 °C, min. 5 mA • for signal "1" permissible range for 0 to 40 °C, max. 0.6 A • for signal "1" permissible range for 0 to 60 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, max. 0.6 A • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, max. 0.6 A max. • for signal "1" minimum load current 5 mA • for signal "0" residual current, max. 0.5 mA Output delay with resistive load 0.5 mA • "0" to "1", max. 100 μs • "1" to "0", max. 500 μs Parallel switching of two outputs • for uprating	Switching capacity of the outputs	
• lower limit 48 Ω • upper limit 4 kΩ Output voltage • for signal "1", min. L+ (-0.8 V) Output current 0.5 A • for signal "1" permissible range for 0 to 40 °C, min. 5 mA • for signal "1" permissible range for 0 to 40 °C, max. 0.6 A • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" minimum load current 5 mA • for signal "0" residual current, max. 0.5 mA Output delay with resistive load	 on lamp load, max. 	5 W
• upper limit 4 kΩ Output voltage - • for signal "1", min. L+ (-0.8 V) Output current 0.5 A • for signal "1" permissible range for 0 to 40 °C, min. 5 mA • for signal "1" permissible range for 0 to 40 °C, max. 0.6 A • for signal "1" permissible range for 0 to 60 °C, max. 0.6 A • for signal "1" permissible range for 40 to 60 °C, max. 0.6 A • for signal "1" permissible range for 40 to 60 °C, max. 0.6 A • for signal "1" permissible range for 40 to 60 °C, max. 0.6 A • for signal "1" permissible range for 40 to 60 °C, max. 0.6 A • for signal "1" permissible range for 40 to 60 °C, max. 0.6 A • for signal "1" minimum load current 5 mA • for signal "0" residual current, max. 0.5 mA Output delay with resistive load 0.5 mA • "0" to "1", max. 100 µs • "1" to "0", max. 500 µs Parallel switching of two outputs 500 µs	Load resistance range	
Output voltage • for signal "1", min. Output current • for signal "1" rated value • for signal "1" permissible range for 0 to 40 °C, min. 5 mA • for signal "1" permissible range for 0 to 40 °C, max. 0.6 A • for signal "1" permissible range for 40 to 60 °C, max. • for signal "1" permissible range for 40 to 60 °C, min. • for signal "1" permissible range for 40 to 60 °C, max. • for signal "1" permissible range for 40 to 60 °C, max. • for signal "1" minimum load current 5 mA • for signal "1" minimum load current 5 mA • for signal "0" residual current, max. 0.5 mA Output delay with resistive load • "0" to "1", max. • "0" to "1", max. • "0" to "1", max. • "1" to "0", max. Parallel switching of two outputs • for uprating	lower limit	48 Ω
• for signal "1", min.L+ (-0.8 V)Output current0.5 A• for signal "1" rated value0.5 A• for signal "1" permissible range for 0 to 40 °C, min.5 mA• for signal "1" permissible range for 0 to 40 °C, max.0.6 A• for signal "1" permissible range for 40 to 60 °C, min.5 mA• for signal "1" permissible range for 40 to 60 °C, min.5 mA• for signal "1" permissible range for 40 to 60 °C, min.5 mA• for signal "1" permissible range for 40 to 60 °C, min.6 M• for signal "1" permissible range for 40 to 60 °C, min.5 mA• for signal "1" permissible range for 40 to 60 °C, max.0.6 A• for signal "1" permissible range for 40 to 60 °C, min.5 mA• for signal "1" permissible range for 40 to 60 °C, max.0.6 A• for signal "1" permissible range for 40 to 60 °C, min.5 mA• for signal "1" permissible range for 40 to 60 °C, max.0.6 A• for signal "1" minimum load current5 mA• for signal "0" residual current, max.0.5 mAOutput delay with resistive load0.5 mA• "0" to "1", max.100 μs• "1" to "0", max.500 μsParallel switching of two outputsNo	upper limit	4 kΩ
Output current 0.5 A • for signal "1" permissible range for 0 to 40 °C, min. 5 mA • for signal "1" permissible range for 0 to 40 °C, max. 0.6 A • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, min. 5 mA • for signal "1" permissible range for 40 to 60 °C, max. 0.6 A * for signal "1" permissible range for 40 to 60 °C, max. 0.6 A • for signal "1" permissible range for 40 to 60 °C, max. 0.6 A • for signal "1" permissible range for 40 to 60 °C, max. 0.6 A • for signal "1" permissible range for 40 to 60 °C, max. 0.6 A • for signal "1" permissible range for 40 to 60 °C, max. 0.6 A • for signal "1" minimum load current 5 mA • for signal "0" residual current, max. 0.5 mA Output delay with resistive load 100 µs • "0" to "1", max. 500 µs Parallel switching of two outputs 500 µs • for uprating No	Output voltage	
 for signal "1" rated value for signal "1" permissible range for 0 to 40 °C, min. for signal "1" permissible range for 0 to 40 °C, max. for signal "1" permissible range for 40 to 60 °C, min. for signal "1" permissible range for 40 to 60 °C, min. for signal "1" permissible range for 40 to 60 °C, min. for signal "1" permissible range for 40 to 60 °C, min. for signal "1" permissible range for 40 to 60 °C, min. for signal "1" minimum load current for signal "0" residual current, max. 0.5 mA Output delay with resistive load "0" to "1", max. "1" to "0", max. 500 µs Parallel switching of two outputs for uprating No 	● for signal "1", min.	L+ (-0.8 V)
 for signal "1" permissible range for 0 to 40 °C, min. for signal "1" permissible range for 0 to 40 °C, max. for signal "1" permissible range for 40 to 60 °C, min. for signal "1" permissible range for 40 to 60 °C, 0.6 A for signal "1" minimum load current for signal "0" residual current, max. for signal "0" residual current, max. 0.5 mA Output delay with resistive load "0" to "1", max. "1" to "0", max. 500 µs Parallel switching of two outputs for uprating No 	Output current	
 for signal "1" permissible range for 0 to 40 °C, max. for signal "1" permissible range for 40 to 60 °C, min. for signal "1" permissible range for 40 to 60 °C, max. for signal "1" minimum load current for signal "0" residual current, max. 0.5 mA Output delay with resistive load "0" to "1", max. "0" to "1", max. "1" to "0", max. Parallel switching of two outputs for uprating No	 for signal "1" rated value 	0.5 A
 for signal "1" permissible range for 40 to 60 °C, min. for signal "1" permissible range for 40 to 60 °C, max. for signal "1" minimum load current for signal "0" residual current, max. 0.5 mA 0.5 mA Output delay with resistive load "0" to "1", max. "0" to "1", max. "1" to "0", max. 500 µs Parallel switching of two outputs for uprating No 	 for signal "1" permissible range for 0 to 40 °C, min. 	5 mA
• for signal "1" permissible range for 40 to 60 °C, max.0.6 A• for signal "1" minimum load current5 mA• for signal "0" residual current, max.0.5 mAOutput delay with resistive load0.5 mA• "0" to "1", max.100 μs• "1" to "0", max.500 μsParallel switching of two outputs500 μs	 for signal "1" permissible range for 0 to 40 °C, max. 	0.6 A
max.Final "1" minimum load current5 mA• for signal "0" residual current, max.0.5 mAOutput delay with resistive load0.5 mA• "0" to "1", max.100 μs• "0", max.500 μsParallel switching of two outputs500 μs• for upratingNo		5 mA
• for signal "0" residual current, max. 0.5 mA Output delay with resistive load		0.6 A
Output delay with resistive load • "0" to "1", max. • "1" to "0", max. 500 µs Parallel switching of two outputs • for uprating No	 for signal "1" minimum load current 	5 mA
• "0" to "1", max. 100 μs • "1" to "0", max. 500 μs Parallel switching of two outputs 500 μs • for uprating No	 for signal "0" residual current, max. 	0.5 mA
• "1" to "0", max. 500 μs Parallel switching of two outputs 500 μs • for uprating No	Output delay with resistive load	
Parallel switching of two outputs • for uprating No	• "0" to "1", max.	100 µs
• for uprating No	• "1" to "0", max.	500 µs
	Parallel switching of two outputs	
for redundant control of a load Yes	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
 with inductive load (acc. to IEC 60947-5-1, DC13), 	0.5 Hz
max.	
• on lamp load, max.	10 Hz
Total current of the outputs (per group)	
horizontal installation	
— up to 40 °C, max.	4 A
— up to 60 °C, max.	3 A
vertical installation	
— up to 40 °C, max.	2 A
Cable length	
 shielded, max. 	1 000 m
• unshielded, max.	600 m
Interrupts/diagnostics/status information	
Alarms	No
Diagnostics function	No
Alarms	
Diagnostic alarm	No
Diagnoses	
Wire-break	No
Short-circuit	No
Fuse blown	No
missing load voltage	No
Diagnostics indication LED	
 Rated load voltage PWR (green) 	No
 Fuse OK FSG (green) 	No
Status indicator digital output (green)	Yes
Potential separation	
Potential separation digital outputs	
 between the channels 	Yes
 between the channels, in groups of 	8
 between the channels and backplane bus 	Yes; Optocoupler
Isolation	
Isolation tested with	500 V DC
connection method / header	
required front connector	20-pin
Dimensions	
Width	40 mm
Height	
Depth	
Weights	
Weight, approx.	190 g
Troight, upprox.	
last modified:	1/16/2021

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