

SIMATIC ET 200SP, DIGITAL OUTPUT MODULE, DQ
 8X24VDC/0,5A SINK BASIC, FITS TO BU-TYPE A0, COLOR CODE
 CC01



General information	
Product type designation	DQ 8x24VDC/0.5A SNK BA
Firmware version	V1.0
<ul style="list-style-type: none"> FW update possible 	Yes
usable BaseUnits	BU type A0
Color code for module-specific color identification plate	CC01
Product function	
<ul style="list-style-type: none"> I&M data 	Yes; I&M0 to I&M3
Engineering with	
<ul style="list-style-type: none"> STEP 7 TIA Portal configurable/integrated as of version 	V13 / V13
<ul style="list-style-type: none"> STEP 7 configurable/integrated as of version 	V5.5 SP3 / -
<ul style="list-style-type: none"> PROFIBUS as of GSD version/GSD revision 	GSD Revision 5
<ul style="list-style-type: none"> PROFINET as of GSD version/GSD revision 	GSDML V2.3
Operating mode	
<ul style="list-style-type: none"> DQ 	Yes
<ul style="list-style-type: none"> DQ with energy-saving function 	No
<ul style="list-style-type: none"> PWM 	No

- Oversampling
- MSO

No

No

Supply voltage

Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V

Output voltage

Rated value (DC)	24 V
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Power loss

Power loss, typ.	1.5 W
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Address area

Address space per module

- Address space per module, max. 1 byte
- Outputs 1 byte

Digital outputs

Number of digital outputs	8
Current-sinking	Yes
Current-sourcing	No
Short-circuit protection	Yes
• Response threshold, typ.	1,5 A
Open-circuit detection	No
Limitation of inductive shutdown voltage to	Typ. 47 V
Controlling a digital input	Yes

Switching capacity of the outputs

- with resistive load, max. 0.5 A
- on lamp load, max. 5 W

Load resistance range

- lower limit 48 Ω
- upper limit 3 400 Ω

Output current

- for signal "1" rated value 0.5 A
- for signal "0" residual current, max. 5 μ A

Output delay with resistive load

- "0" to "1", max. 300 μ s
- "1" to "0", max. 600 μ s

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.	10 Hz
Total current of the outputs	
• Current per channel, max.	0.5 A
• Current per module, max.	4 A
Total current of the outputs (per module)	
horizontal installation	
— up to 60 °C, max.	4 A
vertical installation	
— up to 60 °C, max.	4 A
Cable length	
• shielded, max.	1 000 m
• unshielded, max.	600 m
Isochronous mode	
Isochronous operation (application synchronized up to terminal)	No
Interrupts/diagnostics/status information	
Diagnostics	Yes
Substitute values connectable	No
Alarms	
• Diagnostic alarm	Yes
Diagnostic messages	
• Monitoring the supply voltage	Yes
• Wire-break	No
• Short-circuit	No
• Group error	Yes
Diagnostics indication LED	
• Monitoring of the supply voltage (PWR-LED)	Yes; green PWR LED
• Channel status display	Yes; Green LED
• for channel diagnostics	No
• for module diagnostics	Yes; green/red DIAG LED
Potential separation	
Potential separation channels	
• between the channels	No
• between the channels and backplane bus	Yes
Permissible potential difference	
between different circuits	75 V DC/60 V AC (base isolation)
Isolation	
Isolation tested with	707 V DC (type test)
Dimensions	

Width	15 mm
Height	73 mm
Depth	58 mm
Weights	
Weight, approx.	30 g
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