

SIMATIC ET 200SP, DIGITAL OUTPUT MODULE, DQ 4x24VDC/2A
STANDARD, FITS TO BU-TYPE A0, COLOR CODE CC02,
MODULE DIAGNOSIS



General information	
Product type designation	ET 200SP, DQ 4x 24 V DC/2 A ST, PU 1
Firmware version	V1.1
• FW update possible	Yes
usable BaseUnits	BU type A0
Color code for module-specific color identification plate	CC02
Product function	
• I&M data	Yes; I&M0 to I&M3
Engineering with	
• STEP 7 TIA Portal configurable/integrated as of version	V11 SP2 / V13
• STEP 7 configurable/integrated as of version	V5.5 SP3 / -
• PCS 7 configurable/integrated as of version	V8.1 SP1
• PROFIBUS as of GSD version/GSD revision	GSD Revision 5
• PROFINET as of GSD version/GSD revision	GSDML V2.3
Operating mode	
• DQ	Yes
• DQ with energy-saving function	No

- PWM
- Oversampling
- MSO

No
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
Reverse polarity protection	Yes

Input current

Current consumption, max.	60 mA; without load
---------------------------	---------------------

Output voltage

Rated value (DC)	24 V
------------------	------

Power loss

Power loss, typ.	1 W
------------------	-----

Address area

Address space per module	
• Address space per module, max.	1 byte; + 1 byte for QI information

Digital outputs

Number of digital outputs	4
Current-sinking	No
Current-sourcing	Yes
Short-circuit protection	Yes
• Response threshold, typ.	2.8 to 5.2 A
Limitation of inductive shutdown voltage to	Typ. L+ (-50 V)
Controlling a digital input	Yes

Switching capacity of the outputs

• with resistive load, max.	2 A
• on lamp load, max.	10 W

Load resistance range

• lower limit	12 Ω
• upper limit	3 400 Ω

Output current

• for signal "1" rated value	2 A
• for signal "0" residual current, max.	0.1 mA

Output delay with resistive load

• "0" to "1", typ.	50 μ s
• "0" to "1", max.	50 μ s
• "1" to "0", typ.	100 μ s
• "1" to "0", max.	100 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.	2 Hz
• on lamp load, max.	10 Hz
Total current of the outputs	
• Current per channel, max.	2 A
• Current per module, max.	8 A
Total current of the outputs (per module)	
horizontal installation	
— up to 30 °C, max.	8 A
— up to 40 °C, max.	8 A
— up to 50 °C, max.	6 A
— up to 60 °C, max.	4 A
vertical installation	
— up to 30 °C, max.	8 A
— up to 40 °C, max.	6 A
— up to 50 °C, max.	4 A
— 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 function	Yes
Substitute values connectable	Yes
Alarms	
• Diagnostic alarm	Yes
Diagnostic messages	
• Monitoring the supply voltage	Yes
• Wire-break	Yes; Module-wise
• Short-circuit	Yes; Module-wise
• 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
Isolation	
Isolation tested with	707 V DC (type test)
Dimensions	
Width	15 mm
Height	73 mm
Depth	58 mm
Weights	
Weight, approx.	30 g
last modified:	02/07/2017