Data sheet 6ES7132-6BF00-2BA0

SIMATIC ET 200SP, digital output module, DQ 8x 24VDC/0.5A Standard, Pack quantity: 10 units, suitable for BU type A0, Color code CC02, Module diagnostics



General information	
Product type designation	DQ 8x24 VDC/0.5 A ST
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 / -
 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	No

Oversampling	No
MSO	No
Redundancy	110
Redundancy capability	Yes
Tredutidancy Capability	163
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.	35 mA; without load
Output voltage	24 V
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
Hardware configuration	
Automatic encoding	
Mechanical coding element	Yes
Selection of BaseUnit for connection variants	
1-wire connection	BU type A0
• 2-wire connection	BU type A0
3-wire connection	BU type A0 with AUX terminals or potential distributor module
4-wire connection	BU type A0 + Potential isolation module
Digital outputs	
Type of digital output	Source output (PNP, current-sourcing)
Number of digital outputs	8
Current-sinking	No
Current-sourcing	Yes
Digital outputs, parameterizable	Yes
Short-circuit protection	Yes
Response threshold, typ.	0.7 to 1.3 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.	0.5 A
• on lamp load, max.	5 W
Load resistance range	
•	

 lower limit upper limit 12 kΩ Output current for signal "1" rated value for signal "0" residual current, max. 0.1 mA Output delay with resistive load "0" to "1", max. "1" to "0", max. for uprating for uprating for redundant control of a load Switching frequency with resistive load, max. with inductive load, max. on lamp load, max. Current of the outputs Current per channel, max. Current per module, max. Current per module, max. Current per module, max. Current per module, max. 	
Output current • for signal "1" rated value • for signal "0" residual current, max. Output delay with resistive load • "0" to "1", max. • "1" to "0", max. 100 µs; at rated load Parallel switching of two outputs • for uprating • for redundant control of a load Switching frequency • with resistive load, max. • with inductive load, max. • with inductive load, max. • on lamp load, max. Total current of the outputs • Current per channel, max. 0.5 A 0.1 mA 0.0 µs; at rated load Yes Suitching frequency 100 µs; at rated load Yes Total current of the outputs	
 for signal "1" rated value for signal "0" residual current, max. 0.1 mA Output delay with resistive load "0" to "1", max. "1" to "0", max. 100 µs; at rated load for uprating for redundant control of a load Switching frequency with resistive load, max. with inductive load, max. on lamp load, max. Current per channel, max. 0.5 A 	
 for signal "0" residual current, max. Output delay with resistive load "0" to "1", max. "1" to "0", max. for uprating for redundant control of a load Switching frequency with resistive load, max. with inductive load, max. on lamp load, max. Current per channel, max. 0.5 A 	
Output delay with resistive load • "0" to "1", max. • "1" to "0", max. 100 µs; at rated load Parallel switching of two outputs • for uprating • for redundant control of a load Switching frequency • with resistive load, max. • with inductive load, max. • on lamp load, max. 100 Hz Total current of the outputs • Current per channel, max. 0.5 A	
 "0" to "1", max. "1" to "0", max. Parallel switching of two outputs for uprating for redundant control of a load Switching frequency with resistive load, max. with inductive load, max. on lamp load, max. Current per channel, max. 50 µs; at rated load No Yes Yes Yes Switching frequency 100 Hz 2 Hz 10 Hz 	
 "1" to "0", max. Parallel switching of two outputs for uprating for redundant control of a load Switching frequency with resistive load, max. with inductive load, max. on lamp load, max. Total current of the outputs Current per channel, max. 100 Hz 2 Hz 10 Hz Total current of the outputs Current per channel, max. 0.5 A 	
Parallel switching of two outputs • for uprating • for redundant control of a load Switching frequency • with resistive load, max. • with inductive load, max. • on lamp load, max. 100 Hz 2 Hz 10 Hz Total current of the outputs • Current per channel, max. 0.5 A	
 for uprating for redundant control of a load Switching frequency with resistive load, max. with inductive load, max. on lamp load, max. Total current of the outputs Current per channel, max. No Yes 100 Hz 2 Hz 10 Hz Total current of the outputs 0.5 A	
 for redundant control of a load Switching frequency with resistive load, max. with inductive load, max. on lamp load, max. Total current of the outputs Current per channel, max. 7 on lamp load, max. 10 Hz <td></td>	
Switching frequency • with resistive load, max. • with inductive load, max. • on lamp load, max. 100 Hz 2 Hz • on lamp load, max. 10 Hz Total current of the outputs • Current per channel, max. 0.5 A	
 with resistive load, max. with inductive load, max. on lamp load, max. Total current of the outputs Current per channel, max. 10 Hz Total current of the outputs	
 with inductive load, max. on lamp load, max. Total current of the outputs Current per channel, max. 0.5 A 	
on lamp load, max. 10 Hz Total current of the outputs Current per channel, max. 0.5 A	
Total current of the outputs • Current per channel, max. 0.5 A	
Current per channel, max. 0.5 A	
Carron por Granica, max.	
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	
In a shore a read a	
Isochronous mode Isochronous operation (application synchronized up No	
to terminal)	
Interrupts/diagnostics/status information	
Diagnostics function Yes Substitute values connectable Yes	
Substitute values connectable Yes Alarms	
 Diagnostic alarm Diagnostic messages 	
• Short-circuit Yes; Module-wise	
Short-circuitGroup errorYes; Module-wiseYes	
Short-circuit Yes; Module-wise	

Channel status display
 Yes; Green LED

for channel diagnostics

for module diagnostics
 Yes; green/red DIAG LED

Potential separation

Potential separation channels

between the channels

between the channels and backplane bus

• between the channels and the power supply of

the electronics

No Yes

No

No

Isolation

Isolation tested with 707 V DC (type test)

Standards, approvals, certificates

Suitable for safety functions

No

Suitable for safety-related tripping of standard

modules

No

Yes; From FS03

Highest safety class achievable in safety mode

Performance level according to ISO 13849-1

• SIL acc. to IEC 61508 SIL 2

Ambient conditions

Ambient temperature during operation

horizontal installation, min.
 horizontal installation, max.
 60 °C

• vertical installation, min.

0 °C; in all other mounting positions

vertical installation, max.
 50 °C; in all other mounting positions

Altitude during operation relating to sea level

 Ambient air temperature-barometric pressurealtitude On request: Ambient temperatures lower than 0 °C (without condensation) and/or installation altitudes greater than 2 000 m

Dimensions

Width	15 mm
Height	73 mm
Depth	58 mm

Weights

Weight, approx. 28 g

last modified: 09/12/2019