SIEMENS

Data sheet

6ES7132-6BF01-2BA0



SIMATIC ET 200SP, Digital output module, DQ 8x 24V DC/0,5A Standard, Source output (PNP,P-switching) Packing unit: 10 pieces, fits to BU-type A0, Colour Code CC02, aubstitute value output, module diagnostics for: short-circuit to L+ and ground, wire break, supply voltage

General information	
Product type designation	DQ 8x24VDC/0.5A ST
HW functional status	From FS02
Firmware version	V0.0
 FW update possible 	No
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
Isochronous mode	No
Engineering with	
 STEP 7 TIA Portal configurable/integrated from version 	V14
 STEP 7 configurable/integrated from version 	V5.5 SP3 or higher
 PCS 7 configurable/integrated from version 	V8.1 SP1
 PROFIBUS from GSD version/GSD revision 	One GSD file each, Revision 3 and 5 and higher
 PROFINET from GSD version/GSD revision 	GSDML V2.3
Operating mode	
• DQ	Yes
 DQ with energy-saving function 	No
• PWM	No
Oversampling	No
• MSO	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.	35 mA; without load
output voltage / header	
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	Yes
-	

• Mechanical coding element Yes • Type of mechanical coding element Type A Selection of BaseUnit for connection variants EU 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 with AUX terminals or potential distributor module • 4-wire connection BU type A0 with AUX terminals or potential distributor module • 1 ype of digital outputs 8 • 7ype of digital outputs 8 • Current-sourcing Yes Digital outputs, parameterizable Yes • Short-circuit protection Yes • Response threshold, typ. 1 A Limitation of inductive shutdown voltage to Typ. L+ (-50 V) Controlling a digital input Yes • with resistive load, max. 5 W Load resistance range • or signal "1", min. • for signal "1", rated value 0.5 A • for signal "1", read value <	
Selection of BaseUnit for connection variants 1-wire connection 2-wire connection 3-wire connection BU type A0 BU type A0 with AUX terminals or potential distributor module 4-wire connection BU type A0 + Potential distributor module Digital outputs Source output (PNP, current-sourcing) Number of digital outputs 8 Current-sourcing Yes Digital outputs, parameterizable Yes Short-circuit protection Yes Short-circuit protection Yes Stort-circuit protection Yes Stricting capacity of the outputs with resistive load, max. S W Load resistance range lower limit 12 kΩ Output voltage for signal "1", min. L+ (-0.8 V) Output voltage for signal "1" permissible range, max. S U µ; at rated load "1" to "0", max. S0 µ; at rated load "1" to "0", max. S0 µ; at rated load "1" to "0", max.<!--</td--><td></td>	
• 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 Digital outputs BU type A0 + Potential distributor module Digital outputs Source output (PNP, current-sourcing) Number of digital outputs 8 Current-sourcing Yes Digital outputs, parameterizable Yes Short-circuit protection Yes Limitation of inductive shutdown voltage to Typ. L+ (-50 V) Controlling a digital input Yes Switching capacity of the outputs 0.5 A • on lamp load, max. 5 W Load resistance range 48 Ω • lower limit 48 Ω • or signal "1", min. L+ (-0.8 V) Output voltage 0.5 A • for signal "1", min. L+ (-0.8 V) Output voltage 0.5 A • for signal "1" permissible range, max. 0.5 A • for signal "1" rated value 0.5 A • for signal "1" rated value 0.5 A • for signal "1" rated value 0.5 A • for signal "1" returns. 50 µs; at rated load • 0" of 'n rax. 50 µs; at rated load • 0" of 'n rax. 50 µs; at rated load	
• 2-wire connectionBU type A0• 3-wire connectionBU type A0 with AUX terminals or potential distributor module• 4-wire connectionBU type A0 + Potential distributor module Digital outputs Source output (PNP, current-sourcing)Number of digital outputs8Current-sourcingYesDigital outputs, parameterizableYesShort-circuit protectionYes• Response threshold, typ.1 ALimitation of inductive shutdown voltage toTyp. L+ (-50 V)Controlling a digital inputYesSwitching capacity of the outputs• with resistive load, max.0.5 A• on lamp load, max.5 WLoad resistance range• lower limit48 Q• lower limit12 kQOutput outgage• for signal "1" raited value0.5 A• for signal "1" resistive load0.5 A• for or ginal "1" raited value	
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Controlling a digital input Yes Switching capacity of the outputs 0.5 A • with resistive load, max. 0.5 A • on lamp load, max. 5 W Load resistance range 6 • lower limit 48 Ω • upper limit 12 kΩ Output voltage 6 • 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, max. 0.5 A • for signal "0" residual current, max. 0.1 mA Output delay with resistive load	
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• for signal "0" residual current, max. 0.1 mA Output delay with resistive load	
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Parallel switching of two outputs • • for uprating No • for redundant control of a load Yes Switching frequency Ves	
for uprating No for redundant control of a load Yes Switching frequency	
for redundant control of a load Yes Switching frequency	
Switching frequency	
with resistive load, max.	
• with inductive load, max. 2 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 50 °C, max. 4 A	
Cable length	
• shielded, max. 1 000 m	
• unshielded, max. 600 m	
Interrupts/diagnostics/status information	
Diagnostics function Yes	
Substitute values connectable Yes	
Alarms	
Diagnostic alarm Yes	
Diagnoses	
Monitoring the supply voltage Yes	
Wire-break Yes; Module-wise	
Short-circuit to M Yes; Module-wise	
Short-circuit to L+ 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
 between the channels and the power supply of the electronics 	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	Yes; see FAQ Entry ID: 39198632
Highest safety class achievable in safety mode	
 Performance level according to ISO 13849-1 	PL d
• SIL acc. to IEC 61508	SIL 2
Ambient conditions	
Ambient temperature during operation	
 horizontal installation, min. 	-30 °C; < 0 °C as of FS02
 horizontal installation, max. 	60 °C
 vertical installation, min. 	-30 °C; < 0 °C as of FS02
 vertical installation, max. 	50 °C
Altitude during operation relating to sea level	
 Installation altitude above sea level, max. 	5 000 m; Restrictions for installation altitudes > 2 000 m, see manual
Dimensions	
Width	15 mm
Height	73 mm
Depth	58 mm
Weights	
Weight, approx.	30 g
last modified.	

last modified:

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