SIEMENS

Data sheet

6ES7132-6BF01-2AA0



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

Product type designation HW functional status From FS02 Firmware version FW update possible DQ 8x24VDC/0.5A BA From FS02 V0.0 No		
Firmware version V0.0 ◆ FW update possible No		
• 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 V14 version		
• STEP 7 configurable/integrated from version V5.5 SP3		
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. 45 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		
Hardware configuration		
Automatic encoding Yes		
Mechanical coding element Yes		
Type of mechanical coding element Type A		

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 distributor module
	Bo type At + Fotential distributor module
Digital outputs	Occurs setting (DND security security)
Type of digital output	Source output (PNP, current-sourcing)
Number of digital outputs	8
Current-sourcing	Yes
Digital outputs, parameterizable	Yes
Short-circuit protection	Yes; per channel, electronic
Response threshold, typ.	1 A
Limitation of inductive shutdown voltage to	Typ. L+ (-50 V)
Controlling a digital input	Yes
Switching capacity of the outputs	0.5.4
with resistive load, max.	0.5 A
• on lamp load, max.	5 W
Load resistance range	40.0
lower limit	48 Ω 400 kO
• upper limit	100 kΩ
Output current	0.5.4
• for signal "1" rated value	0.5 A
• for signal "1" permissible range, max.	0.5 A
for signal "0" residual current, max.	10 μA
Output delay with resistive load	
• "0" to "1", max.	100 μs; at rated load
• "1" to "0", max.	150 µs; at rated load
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.	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	1000
• 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	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
Detween the originicis	110

	N/	
 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	

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last modified: