SIEMENS

Data sheet

6ES7132-6BF00-0CA0



SIMATIC ET 200SP, digital output module, DQ 8x 24VDC/0.5A High Feature, source output PNP, source output, Packing unit: 1 unit, suitable for BU type A0, color code CC02, Channel diagnostics for: Short-circuit and wire break; supply voltage, channel fault LED

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General information			
Product type designation	DQ 8x24 V DC/0.5 A HF		
HW functional status	From FS07		
Firmware version			
• 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		
Isochronous mode	Yes		
Engineering with			
 STEP 7 TIA Portal configurable/integrated from version 	V13 SP1 / -		
 STEP 7 configurable/integrated from version 	V5.5 / -		
 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	Yes		
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		
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.	8 byte; 2 channels per submodule + QI information		
Hardware configuration			
Automatic encoding	Yes		
Mechanical coding element	Yes		
• Type of mechanical coding element	Туре А		
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
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	48 Ω
• upper limit	12 kΩ
Output current	
 for signal "1" rated value 	0.5 A
 for signal "0" residual current, max. 	0.1 mA
Output delay with resistive load	
• "0" to "1", typ.	50 µs
• "1" to "0", typ.	100 µs
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 shielded, max. 	1 000 m
• unshielded, max.	600 m
sochronous mode	800 11
	49.00
Execution and activation time (TCO), min. Bus cycle time (TDP), min.	48 μs 500 μs
Interrupts/diagnostics/status information	500 µs
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Diagnostics function Substitute values connectable	Yes
Alarms	165
Diagnostic alarm	Yes
Diagnoses	
Monitoring the supply voltage	Yes
Wine-break	Yes; channel by channel
Whe-break Short-circuit	Yes; channel by channel
Group error	Yes
Group error Diagnostics indication LED	
Monitoring of the supply voltage (PWR-LED)	Yes; green PWR LED
Channel status display	Yes; green LED
• Onanner status uispiay	ito, gittin LED

 for channel diagnostics 	Yes; red LED
 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	No; 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 FS07
 horizontal installation, max. 	60 °C
 vertical installation, min. 	-30 °C; < 0 °C as of FS07
 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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