## **Data sheet**

6ES7132-6BF01-0BA0



SIMATIC ET 200SP, Digital output module, DQ 8x 24V DC/0,5A Standard, Source output (PNP,P-switching) Packing unit: 1 piece, fits to BU-type A0, Colour Code CC02, substitute 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 FS21		
Firmware version	V0.0		
<ul> <li>FW update possible</li> </ul>	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		
<ul> <li>Isochronous mode</li> </ul>	No		
Engineering with			
STEP 7 TIA Portal configurable/integrated from version	STEP 7 TIA V14 with HSP0222 / integrated as of TIA V15		
<ul> <li>STEP 7 configurable/integrated from version</li> </ul>	V5.5 SP3 with HSP0230 V7.0 / integrated as of V5.6 SP1		
<ul> <li>PCS 7 configurable/integrated from version</li> </ul>	V8.1 SP1		
<ul> <li>PROFIBUS from GSD version/GSD revision</li> </ul>	One GSD file each, Revision 3 and 5 and higher		
<ul> <li>PROFINET from GSD version/GSD revision</li> </ul>	GSDML V2.3		
Operating mode			
• DQ	Yes		
<ul> <li>DQ with energy-saving function</li> </ul>	No		
• PWM	No		
<ul> <li>Oversampling</li> </ul>	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.	20 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			
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		
output type acc. to IEC 61131, type 0.5	Yes		
Short-circuit protection	Yes; Electronic		
Response threshold, typ.	1 A; 0.7 to 1.3 A		
Open-circuit detection	Yes		
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		
with inductive load, max.	0.5 A		
• on lamp load, max.	5 W		
Load resistance range	40.0		
• lower limit	48 Ω		
• upper limit	12 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.  Output delay with residtive lead.	0.1 mA		
Output delay with resistive load  • "0" to "1", max.	EQual at rated lead		
• "1" to "0", max.	50 μs; at rated load 100 μs; at rated load		
Parallel switching of two outputs	100 μs, at rated toau		
• for uprating	No		
for redundant control of a load	Yes		
Switching frequency	165		
with resistive load, max.	100 Hz		
with inductive load, max.	0.1 Hz; higher frequencies are possible, see Equipment Manual "Maximum		
• Will inductive load, max.	permitted switching frequency of inductive loads"		
• on lamp load, max.	10 Hz		
Total current of the outputs			
<ul> <li>Current per channel, max.</li> </ul>	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		
	Yes		
Substitute values connectable			
Alarms	V		
Alarms  • Diagnostic alarm	Yes		
Alarms  • Diagnostic alarm  Diagnoses			
Alarms  • Diagnostic alarm  Diagnoses  • Monitoring the supply voltage	Yes		
Alarms  • Diagnostic alarm  Diagnoses  • Monitoring the supply voltage  • Wire-break	Yes Yes; Module-wise		
Alarms  • Diagnostic alarm  Diagnoses  • Monitoring the supply voltage  • Wire-break  • Short-circuit to M	Yes Yes; Module-wise Yes; Module-wise		
Alarms  • Diagnostic alarm  Diagnoses  • Monitoring the supply voltage  • Wire-break	Yes Yes; Module-wise		

Diagnostics indication LED					
<ul> <li>Monitoring of the supply voltage (PWR-LED)</li> </ul>	Yes; green PWR LED				
Channel status display	Yes; green PWR LED				
<ul> <li>for channel diagnostics</li> </ul>	No				
for module diagnostics	Yes; green PWR LED				
Potential separation					
Potential separation channels					
<ul> <li>between the channels</li> </ul>	No				
<ul> <li>between the channels and backplane bus</li> </ul>	Yes				
Between the channels and load voltage L+	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				
Ecological footprint					
<ul> <li>environmental product declaration</li> </ul>	Yes				
Global warming potential					
<ul><li>— global warming potential, (total) [CO2 eq]</li></ul>	20.4 kg				
<ul><li>— global warming potential, (during production) [CO2 eq]</li></ul>	3.16 kg				
<ul> <li>global warming potential, (during operation) [CO2 eq]</li> </ul>	17.5 kg				
<ul> <li>— global warming potential, (after end of life cycle)</li> <li>[CO2 eq]</li> </ul>	-0.221 kg				
Ambient conditions					
Ambient temperature during operation					
<ul> <li>horizontal installation, min.</li> </ul>	-30 °C; < 0 °C as of FS02				
<ul> <li>horizontal installation, max.</li> </ul>	60 °C				
• vertical installation, min.	-30 °C; < 0 °C as of FS02				
<ul> <li>vertical installation, max.</li> </ul>	50 °C				
Altitude during operation relating to sea level					
<ul> <li>Installation altitude above sea level, max.</li> </ul>	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				
Classifications					
		Version	Classification		
	eClass	14	27-24-26-04		
	eClass	12	27-24-26-04		
	eClass	9.1	27-24-26-04		
	eClass	9	27-24-26-04		
	eClass	8	27-24-26-04		
	00.000				
	oClass.	7.1	27 24 26 04		
	eClass	7.1	27-24-26-04		
	eClass eClass	7.1 6	27-24-26-04 27-24-26-04		
	eClass	6	27-24-26-04		
	eClass ETIM	6 9	27-24-26-04 EC001599 EC001599		
	eClass ETIM ETIM ETIM	6 9 8 7	27-24-26-04 EC001599 EC001599 EC001599		
	eClass ETIM ETIM ETIM IDEA	6 9 8 7 4	27-24-26-04 EC001599 EC001599 EC001599 3566		
	eClass ETIM ETIM ETIM	6 9 8 7	27-24-26-04 EC001599 EC001599 EC001599		
Approvals / Certificates	eClass ETIM ETIM ETIM IDEA	6 9 8 7 4	27-24-26-04 EC001599 EC001599 EC001599 3566		









CCS (China Classification Society)

Confirmation

other

Environment



Environmental Confirmations

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