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 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	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	
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-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
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 voltage	
• for signal "1", min.	L+ (-0.8 V)
Output current	
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	
• "0" to "1", max.	50 µs; at rated load
• "1" to "0", max.	100 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	
• 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

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

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