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		
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 	STEP 7 TIA V14 with HSP0222 / integrated as of TIA V15		
 STEP 7 configurable/integrated from version 	V5.5 SP3 with HSP0230 V7.0 / integrated as of V5.6 SP1		
 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.	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		
igital 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 40 kg		
• 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.	0.1 mA		
Output delay with resistive load	FO was at rated land		
• "0" to "1", max. • "1" to "0", max.	50 µs; at rated load		
·	100 μs; at rated load		
Parallel switching of two outputs	No		
for uprating for redundant control of a load	No Yes		
	Tes Tes		
Switching frequency	100 H 7		
with resistive load, max.with inductive load, max.	100 Hz 0.1 Hz; higher frequencies are possible, see Equipment Manual "Maximum		
	permitted switching frequency of inductive loads"		
on lamp load, max. Total current of the cutoute.	10 Hz		
Total current of the outputs	0.5.0		
Current per channel, max. Current per module, max.	0.5 A		
Current per module, max. Total current of the cutoute (per module)	4 A		
Total current of the outputs (per module) horizontal installation			
	4.0		
— up to 60 °C, max. vertical installation	4 A		
— up to 50 °C, max.	4 A		
— up to 50 °C, max. Cable length	40		
shielded, max.	1 000 m		
	600 m		
 unshielded may 	000 111		
unshielded, max. hterrupts/diagnostics/status information.			
nterrupts/diagnostics/status information	Vec		
nterrupts/diagnostics/status information Diagnostics function	Yes		
nterrupts/diagnostics/status information Diagnostics function Substitute values connectable	Yes Yes		
nterrupts/diagnostics/status information Diagnostics function Substitute values connectable Alarms	Yes		
nterrupts/diagnostics/status information Diagnostics function Substitute values connectable Alarms • Diagnostic alarm			
nterrupts/diagnostics/status information Diagnostics function Substitute values connectable Alarms • Diagnostic alarm Diagnoses	Yes		
nterrupts/diagnostics/status information Diagnostics function Substitute values connectable Alarms • Diagnostic alarm Diagnoses • Monitoring the supply voltage	Yes Yes		
nterrupts/diagnostics/status information Diagnostics function Substitute values connectable Alarms • Diagnostic alarm Diagnoses • Monitoring the supply voltage • Wire-break	Yes Yes Yes Yes; Module-wise		
nterrupts/diagnostics/status information Diagnostics function Substitute values connectable Alarms • Diagnostic alarm Diagnoses • Monitoring the supply voltage	Yes Yes		

Diagnostics Indication LED					
Diagnostics indication LED • Monitoring of the supply voltage (PWR-LED)	Yes; green PWR LED				
Channel status display	Yes; green PWR LED				
for channel diagnostics	No				
• for module diagnostics	Yes; green PWR LED				
otential separation	700, 9.00				
Potential separation channels					
between the channels	No				
 between the channels and backplane bus 	Yes				
 Between the channels and load voltage L+ 	No				
solation					
Isolation tested with	707 V DC (type test)				
tandards, approvals, certificates	_				
Suitable for safety functions	No				
Suitable for safety-related tripping of standard modules	No				
Ecological footprint					
environmental product declaration	Yes				
Global warming potential					
— global warming potential, (total) [CO2 eq]	20.4 kg				
— global warming potential, (during production) [CO2 eq]	3.16 kg				
— global warming potential, (during operation) [CO2 eq]	17.5 kg				
 — global warming potential, (after end of life cycle) [CO2 eq] 	-0.221 kg				
mbient 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. Altitude during a properties and this area level.	50 °C				
Altitude during operation relating to sea level • Installation altitude above sea level, max.	5 000 m; Restrictions for installa	ation altitudos > 2 000 m	s coo manual		
Dimensions	5 000 III, Restrictions for installa	ation attitudes > 2 000 ff	i, see manuar		
Width	15 mm				
Height	15 mm				
Depth	73 mm 58 mm				
Veights					
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		
	- 01	9	27-24-26-04		
	eClass		27 24 20 04		
	eClass	8	27-24-26-04		
	eClass	8	27-24-26-04		
	eClass eClass eClass	8 7.1 6	27-24-26-04 27-24-26-04 27-24-26-04		
	eClass eClass eClass ETIM	8 7.1 6 9	27-24-26-04 27-24-26-04 27-24-26-04 EC001599		
	eClass eClass eClass ETIM ETIM	8 7.1 6 9 8	27-24-26-04 27-24-26-04 27-24-26-04 EC001599 EC001599		
	eClass eClass eClass ETIM ETIM	8 7.1 6 9 8 7	27-24-26-04 27-24-26-04 27-24-26-04 EC001599 EC001599		
	eClass eClass eClass ETIM ETIM	8 7.1 6 9 8	27-24-26-04 27-24-26-04 27-24-26-04 EC001599 EC001599		
	eClass eClass eClass ETIM ETIM	8 7.1 6 9 8 7	27-24-26-04 27-24-26-04 27-24-26-04 EC001599 EC001599		
pprovals / Certificates	eClass eClass eClass ETIM ETIM ETIM IDEA	8 7.1 6 9 8 7 4	27-24-26-04 27-24-26-04 27-24-26-04 EC001599 EC001599 EC001599 3566		

EHC

Confirmation

Miscellaneous

Environmental Confirmations

Environmental Confirmations

last modified:

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