6ES7132-6BF00-0AA0

Data sheet



*** Spare part *** SIMATIC ET 200SP, digital output module, DQ 8x 24 V DC/0.5 A Basic, packing quantity: 1 unit, suitable for BU type A0, color code CC02

General information	
Product type designation	DQ 8x24 VDC/0.5 A BA
Firmware version	V1.0
 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	No
Engineering with	
 STEP 7 TIA Portal configurable/integrated from version 	V13 SP1 / -
 STEP 7 configurable/integrated from version 	V5.5 SP3 / -
 PROFIBUS from GSD version/GSD revision 	GSD Revision 5
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
Redundancy	
 Redundancy capability 	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
Input current	
Current consumption, max.	45 mA; without load
Output voltage	
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

ardware configuration	
Automatic encoding	
Mechanical coding element	Yes
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
Short-circuit protection	Yes; per channel, electronic
Response threshold, typ.	0.7 to 1.3 A
Limitation of inductive shutdown voltage to	Typ. L+ (-53 V)
Controlling a digital input	Yes
Switching capacity of the outputs	
with resistive load, max.	0.5 A
with resistive load, max. on lamp load, max.	5 W
Load resistance range	J VV
•	49.0
lower limit	48 Ω 400 kΩ
• upper limit	100 kΩ
Output current	
for signal "1" rated value	0.5 A
for signal "0" residual current, max.	1 mA
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; per module
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. unshielded, max.	600 m
	VVV III
nterrupts/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
 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
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. 	0 °C
 horizontal installation, max. 	60 °C
 vertical installation, min. 	0 °C; in all other mounting positions
 vertical installation, max. 	50 °C; in all other mounting positions
Altitude during operation relating to sea level	
 Ambient air temperature-barometric pressure- altitude 	On request: Ambient temperatures lower than 0 °C (without condensation) and/or installation altitudes greater than 2 000 m
Dimensions	
Width	15 mm
Height	73 mm
Depth	58 mm
Weights	
Weight, approx.	28 g

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last modified: