SIEMENS

Data sheet

6ES7132-6BF01-0AA0



SIMATIC ET 200SP, Digital output module, DQ 8x 24V DC/0,5A Basic, Source output (PNP,P-switching) Packing unit: 1 piece, fits to BU-type A0, Colour Code CC02, substitute value output, module diagnostics for: supply voltage

Product type designation DQ &&24/DC/0.5A BA HW functional status From FSQ2 Firmware version V0.0 • FW update possible No usable BaseUnits BU type A0 Color code for module-specific color identification plate CC02 Product function CC02 Product function CC02 Product function CC02 Product function No • Isoftronous mode No Engineering with V14 • STEP 7 TA Portal configurable/integrated from version V5.5 SP3 • PROFIBUS from GSD version/GSD revision One GSD file each, Revision 3 and 5 and higher • DQ Yes • DQ Yes • DQ Yes • DQ Yes • DQ No • DQ with energy-saving function No • PWM No • Oversampling No • MSO No Supply votage Z4 V Permissible range, lower limit (DC) 28.8 V Reverse polarity protection Yes Input current Ucurrent consumption, max. Current consumption, max. 45 mA; without load Output votage / header Power loss. Power loss. <th>General information</th> <th></th>	General information	
Firmware version V0.0 • FW update possible No vable BaseUnits BU type A0 Color code for module-specific color identification plate CC02 Product function Color code for module-specific color identification plate CC02 Product function No No • I&M data Yes; I&M0 to I&M3 Isochronous mode • ISTEP 7 IA Portal configurable/integrated from version V14 STEP 7 Talk Portal configurable/integrated from version • PROFIBUS from GSD version/GSD revision One GSD file each, Revision 3 and 5 and higher POFINET from GSD version/GSD revision • DQ PROFINET from GSD version/GSD revision One GSD file each, Revision 3 and 5 and higher • DQ Yes No • DQ with energy-saving function No • DQ with energy-saving function No • DQ with energy-saving function No • Oversampling No • MSO No Supply vortage Z4 V Permissible range, upper 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 / header Power loss, typ. 1 W	Product type designation	DQ 8x24VDC/0.5A BA
• FW update possible No usable BaseUnits EU type A0 Color code for module-specific color identification plate CO202 Preduct function ************************************	HW functional status	From FS02
usable BaseUnits BU type A0 Color code for module-specific color identification plate CC02 Product function CC02 • I&M data Yes; I&M0 to I&M3 • ISchronous mode No Engineering with STEP 7 TA Portal configurable/integrated from version V14 • STEP 7 TA Portal configurable/integrated from version V5.5 SP3 • PROFIBUS from GSD version/GSD revision One GSD file each, Revision 3 and 5 and higher • DQ Yes • SO No Supply voltage Rated value (DC) Permissible range, lower limit (DC) 24 V permissible range, upper limit (DC) 28.8 V Reverse polarity protection Yes Input current Current consumption, max. Current consumption, max. 45 mA; without load Cutput voltage / header Power loss Power loss, typ. 1 W Address space per module, max. 1 byte Address space p	Firmware version	V0.0
Color code for module-specific color identification plate CC02 Product function • I&M data Yes; I&M0 to I&M3 • is cohronous mode No Engineering with • STEP 7 TIA Portal configurable/integrated from version V14 • STEP 7 configurable/integrated from version V5.5 SP3 • PROFIBUS from GSD version/GSD revision One GSD file each, Revision 3 and 5 and higher • DQ Yes • DQ Yes • DQ Yes • 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, lower limit (DC) 28.8 V Reverse polarity protection Yes Input current Current consumption, max. 45 mA; without load output voltage / header Power loss, typ. 1 W Address space per module	FW update possible	No
Product function Ves: I&M 0 to I&M3 • I&M data Yes: I&M 0 to I&M3 • Isochronous mode No Engineering with V14 • STEP 7 TA Portal configurable/integrated from version V5.5 SP3 • 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 Ves • DQ Yes • DQ Yes • DQ with energy-saving function No • NSO No Supply voltage Rated value (DC) 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. Current consumption, max. 45 mA; without load Output voltage / header Power loss, typ. Power loss, typ. 1 W Address space per module, max. 1 byte Hardware configuration Yes Address space per module Yes • Mechnical coding element Yes	usable BaseUnits	BU type A0
• I&M data Yes; I&M0 to I&M3 • Isochronous mode No Engineering with • • STEP 7 TA Portal configurable/integrated from version V14 • STEP 7 configurable/integrated from version V5.5 SP3 • PROFIBUS from GSD version/GSD revision One GSD file each, Revision 3 and 5 and higher • PROFIND from GSD version/GSD revision GSDML V2.3 Operating mode • • DQ Yes • DQ with energy-saving function No • VPWM No • Oversampling No • MSO No • Supply voltage Rated value (DC) Permissible range, lower limit (DC) 28.8 V Perser polarity protection Yes Input current Current consumption, max. Address space per module 45 mA; without load output voltage / header - Rated value (DC) 24 V Power loss, typ. 1 W Address space per module - • Address space per module - • Address space per module - • Address space per module Yes • Mechanical coding element Yes	Color code for module-specific color identification plate	CC02
• Isochronous mode No Engineering with • • STEP 7 TIA Portal configurable/integrated from version V14 • STEP 7 configurable/integrated from version V55 SP3 • 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 Yes • DQ Yes • DQ with energy-saving function No • VVM No • OVersampling No • MSO No Supply voltage Text State Rated value (DC) 24 V permissible range, upper limit (DC) 28.8 V Reverse polarity protection Yes Input current Text State Current consumption, max. 45 mA; without load output voltage / header Text State Power loss, typ. 1 W Address space per module - • Address space per module 1 byte Hardware configurable Yes • Mechanical coding element Yes	Product function	
Engineering with V14 • STEP 7 TIA Portal configurable/integrated from version V14 • STEP 7 configurable/integrated from version V5.5 SP3 • 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 Ves • DQ Yes • DQ with energy-saving function No • PWM No • Oversampling No • MSO No Supply voltage Z4 V Permissible range, lower limit (DC) 24 V permissible range, lower limit (DC) 28.8 V Reverse polarity protection Yes Input current Current consumption, max. Cutrent consumption, max. 45 mA; without load output voltage / header Address area Address space per module 1 W Address space per module 1 byte Hardware configurable; Yes No Yes Power loss, typ. 1 byte Hardware configurable; Yes Nodterss space per module, max. 1 byte <td>• I&M data</td> <td>Yes; I&M0 to I&M3</td>	• I&M data	Yes; I&M0 to I&M3
• STEP 7 TIA Portal configurable/integrated from version V14 • STEP 7 configurable/integrated from version V5.5 SP3 • 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	Isochronous mode	No
• STEP 7 configurable/integrated from version V5.5 SP3 • PROFIBUS from GSD version/GSD revision 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 Ves Rated value (DC) 24 V permissible range, lower limit (DC) 19.2 V permissible range, lower limit (DC) 28.8 V Reverse polarity protection Yes Input current Current consumption, max. Address space per module 1 W Address space per module, max. 1 byte Hardware configuration Yes Address space per module, max. 1 byte Hardware configuration Yes • Address space per module, max. 1 byte Hardware configuration Yes • Mechanical coding element Yes	Engineering with	
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PROFINET from GSD version/GSD revision GSDML V2.3 Operating mode U DQ Ves DQ with energy-saving function No PWM No Oversampling No Oversampling No Supply voltage Rated value (DC) Per Missible range, upper limit (DC) 19.2 V permissible range, upper limit (DC) 28.8 V Reverse polarity protection Yes Ves Input current Current consumption, max. 45 mA; without load output voltage / Header Rated value (DC) 24 V Permissible range, upper limit (DC) 28.8 V Reverse polarity protection Yes Input current Current consumption, max. 45 mA; without load output voltage / Header Rated value (DC) 44 V Permissible range Address space per module Address space per module max. 1 byte Hardware configuration Automatic encoding Mechanical coding element Yes Type of mechanical coding element Type A	 STEP 7 configurable/integrated from version 	V5.5 SP3
Operating mode Ves • DQ Yes • DQ with energy-saving function No • PWM No • Oversampling No • MSO No Supply voltage 24 V 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 24 V Current consumption, max. 45 mA; without load output voltage / header Power loss, typ. Power loss, typ. 1 W Address space per module - • Address space per module, max. 1 byte Hardware configuration Yes • Mechanical coding element Yes • Mechanical coding element Yes	 PROFIBUS from GSD version/GSD revision 	One GSD file each, Revision 3 and 5 and higher
 DQ Yes DQ with energy-saving function No PWM No Oversampling No 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. 45 mA; without load output voltage / header Rated value (DC) 24 V Power loss Power loss, typ. Address space per module Address space per module, max. 1 byte Hardware configuration Attomatic encoding Mechanical coding element Yes Type A 	 PROFINET from GSD version/GSD revision 	GSDML V2.3
• DQ with energy-saving functionNo• PWMNo• OversamplingNo• MSONoSupply voltageRated value (DC)24 Vpermissible range, lower limit (DC)19.2 Vpermissible range, upper limit (DC)28.8 VReverse polarity protectionYesInput currentCurrent consumption, max.45 mA; without loadoutput voltage / headerRated value (DC)24 VPower loss, typ.1 WAddress space per module• Address space per module, max.1 byteHardware configurationYesAutomatic encoding • Mechanical coding elementYes• Type of mechanical coding elementYes• Type of mechanical coding elementType A	Operating mode	
• 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. Current consumption, max. 45 mA; without load output voltage / header Power loss, typ. Power loss, typ. 1 W Address space per module, max. 1 byte Hardware configuration Yes Automatic encoding Yes • Mechanical coding element Yes • Type of mechanical coding element Type A	• DQ	Yes
• OversamplingNo• MSONoSupply voltageRated value (DC)24 Vpermissible range, lower limit (DC)19.2 Vpermissible range, upper limit (DC)28.8 VReverse polarity protectionYesInput currentCurrent consumption, max.Current consumption, max.45 mA; without loadoutput voltage / header24 VPower lossPower loss, typ.Address space per module1 WAddress space per module1 byteHardware configurationYesAutomatic encodingYes• Mechanical coding elementYes• Type of mechanical coding elementType A	 DQ with energy-saving function 	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. 45 mA; without load output voltage / header 24 V Power loss 24 V Power loss, typ. 1 W Address space per module 4 byte • Address space per module, max. 1 byte Hardware configuration Yes Automatic encoding Yes • Mechanical coding element Yes • Type of mechanical coding element Type A	• PWM	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 V Current consumption, max. 45 mA; without load output voltage / header V Rated value (DC) 24 V Power loss V Power loss V Address space per module 1 W Address space per module, max. 1 byte Hardware configuration Yes Automatic encoding Yes • Mechanical coding element Yes • Type of mechanical coding element Type A	Oversampling	No
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 V Current consumption, max. 45 mA; without load output voltage / header 24 V Power loss 24 V Power loss 1 W Address space per module 1 byte • Address space per module, max. 1 byte Hardware configuration Yes Automatic encoding Yes • Mechanical coding element Yes • Type of mechanical coding element Type A	• MSO	No
permissible range, lower limit (DC) 19.2 V permissible range, upper limit (DC) 28.8 V Reverse polarity protection Yes Input current V Current consumption, max. 45 mA; without load output voltage / header 24 V Rated value (DC) 24 V Power loss 1 W Address space per module 1 W Address space per module, max. 1 byte Hardware configuration Yes Automatic encoding Yes • Mechanical coding element Yes • Type of mechanical coding element Type A	Supply voltage	
permissible range, upper limit (DC) 28.8 V Reverse polarity protection Yes Input current Current consumption, max. Current consumption, max. 45 mA; without load output voltage / header 24 V Power loss Power loss, typ. Power loss, typ. 1 W Address space per module 4 byte • Address space per module, max. 1 byte Hardware configuration Yes Automatic encoding Yes • Mechanical coding element Yes • Type of mechanical coding element Type A	Rated value (DC)	24 V
Reverse polarity protection Yes Input current 45 mA; without load Current consumption, max. 45 mA; without load output voltage / header 45 mA; without load Rated value (DC) 24 V Power loss 1 W Address area 1 W Address space per module 1 byte Hardware configuration 1 byte Automatic encoding Yes • Mechanical coding element Yes • Type of mechanical coding element Type A	permissible range, lower limit (DC)	19.2 V
Input current Current consumption, max. 45 mA; without load output voltage / header Rated value (DC) 24 V Power loss 1 W Address area 1 W Address space per module 1 byte • Address space per module, max. 1 byte Hardware configuration Yes • Mechanical coding element Yes • Type of mechanical coding element Type A	permissible range, upper limit (DC)	28.8 V
Current consumption, max. 45 mA; without load output voltage / header Rated value (DC) 24 V Power loss 1 Power loss, typ. 1 W Address area 4ddress space per module • Address space per module, max. 1 byte Hardware configuration Yes • Mechanical coding element Yes • Type of mechanical coding element Type A	Reverse polarity protection	Yes
output voltage / header Rated value (DC) 24 V Power loss 1 Power loss, typ. 1 W Address area 1 Address space per module 4 • Address space per module, max. 1 byte Hardware configuration Yes • Mechanical coding element Yes • Type of mechanical coding element Type A	Input current	
Rated value (DC) 24 V Power loss 1 Power loss, typ. 1 W Address area 4 Address space per module 4 • Address space per module, max. 1 byte Hardware configuration 1 Automatic encoding Yes • Mechanical coding element Yes • Type of mechanical coding element Type A	Current consumption, max.	45 mA; without load
Power loss Power loss, typ. Power loss, typ. Address area Address space per module • Address space per module, max. 1 byte Hardware configuration Automatic encoding Yes • Mechanical coding element Yes • Type of mechanical coding element Type A	output voltage / header	
Power loss, typ. 1 W Address area Address space per module • Address space per module, max. 1 byte Hardware configuration 1 byte Automatic encoding Yes • Mechanical coding element Yes • Type of mechanical coding element Type A	Rated value (DC)	24 V
Address area Address space per module • Address space per module, max. 1 byte Hardware configuration Automatic encoding Yes • Mechanical coding element Yes • Type of mechanical coding element Type A	Power loss	
Address space per module 1 byte • Address space per module, max. 1 byte Hardware configuration 1 Automatic encoding Yes • Mechanical coding element Yes • Type of mechanical coding element Type A	Power loss, typ.	1 W
Address space per module, max. 1 byte Hardware configuration Automatic encoding Ves Ves Ves Type of mechanical coding element Type A	Address area	
Hardware configuration Automatic encoding Yes • Mechanical coding element Yes • Type of mechanical coding element Type A	Address space per module	
Automatic encoding Yes • Mechanical coding element Yes • Type of mechanical coding element Type A	Address space per module, max.	1 byte
Mechanical coding element Yes Type of mechanical coding element Type A	Hardware configuration	
• Type of mechanical coding element Type A	Automatic encoding	Yes
	Mechanical coding element	Yes
Selection of Pasel Init for connection variants	 Type of mechanical coding element 	Туре А
Selection of Dasconic for connection variants	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 Digital outputs	BU type A0 + Potential distributor module
	Course output (DND, ourseast coursing)
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; per channel, electronic
Response threshold, typ.	1A
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	100 kΩ
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. 	10 µA
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
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	10112
· · · · · · · · · · · · · · · · · · ·	0.5.4
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	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 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
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
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

last modified:

10/9/2024 🖸