6ES7132-6BF01-0AA0

Data sheet



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

General information		
Product type designation	DQ 8x24VDC/0.5A BA	
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	
 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.	45 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	
Hardware configuration		
Automatic encoding	Yes	
Mechanical coding element	Yes	
Type of mechanical coding element	Type A	
Selection of BaseUnit for connection variants		

- 2-vier connection - 3-vier connection - 3-vier connection - 3-vier connection - 4-vier connection - 5-vier connection - 7-vier connection - 7-vi	1-wire connection	BU type A0
- 3-wer connection - 4-were connection - 4-were connection - 3-but specified instruction - 3-but specified comput - 3-but specified coupus - 4-but specified coupus - 4-bu		
But bye A0 + Potential distributor module		
Type of digital outputs Type of digital outputs 8 Current sourcing) Yes Digital outputs, savameterizabe Yes Short-circuit protection Yes; per channel, electronic Response treshold, typ. 1 A Limitation of inductive shuddown voltage to Controlling adjust input Yes Switching capacity of the outputs * with resistive load, max. • on lamp load, max. • on sery and "Type resistive load, finax. • or signal "Type resistive load • "Type Type resistive load • "Or to "Ty", max. 100 µs, at raised load Parallel switching of two outputs • for redundant control of a load Yes Switching frequency • with resistive load, max. • und hereither load, max. • und hereither load, max. • und hereither load, max. • Undersolate load max. • Undersolate load, max. • Undersolate load, max. • Undersolate load, max. • Undersolate load max. • Undersol		
Type of digital output Number of digital output Number of digital output Per output Optate outputs, parameterizable Ves Nont-crorus protection *Response threshold, typ. 1 A Limitation of inductive shutdown voltage to Optate outputs, parameterizable Ves Per outputs **Nont-crorus protection Ves, per channel, electronic **Response threshold, typ. 1 A Limitation of inductive shutdown voltage to Optate Optate **Ves Ves Ves Ves Ves Ves Ves Ves Ves Ves		BO type A0 + Fotential distributor module
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Current-sourcing Digital outputs, parameterizable Strot-circuit protection • Response threshold, typ. Initiation of includive shubtown voltage to Typ. L+ (-50 V) Controlling a digital input • With resistative load, max. • on lamp load, max. • on lamp load, max. • of signal "1" rated value • for signal "1" rated value • for signal "1" rated value • for signal "1" permissible range, max. • of signal "1" permissible range, max. • for signal "1" rated value • for signal "1" permissible range, max. • 100 µx, at rated load • "0" to "7", max. • "1" to "0", max. • "4" to "0",		
Digital outputs, parameterizable Yes Short-circuit protection Yes Short-circuit protection Yes Short-circuit Yes Short-circuit Yes Yes Short-circuit Yes		
Short-circuit protection Response threshold, typ. Response threshold, typ. Initiation of inductive shutdown voltage to Typ. 1+ (-50 V) Controlling a digital input Ves Switching gazanty of the outputs • with resistive load, max. • on lamp load, max. • on lamp load, max. • on lamp load, max. • on loam load, l		
Response threshold, typ		
Limitation of inductive shutdown voltage to Controlling a digital input Ves Switching capacity of the outputs • with resistive load, max. • on lamp load, max. • lower limit • upper limit • of resignal "1" rated value • for signal "1" rated value • for signal "1" rated value • for signal "1" remissible range, max. • for signal "1" permissible range, max. • for signal "1" remissible load • "0" to "1", max. • "10 up. Substituting frequency • with resistive load, max. • for uprating • for uprating • for uprating • for uprating • for redundant control of a load • Yes Switching frequency • with resistive load, max. • unth resistive load, max. • Unit remissive load, max. • Unit remissi	•	
Switching application Yes	·	
With reside load, max		
• on lamp load, max.		165
• on lamp load, max. Load resistance range • lower limit • upper limit Output current • for signal "1" rated value • for signal "1" rated value • for signal "1" remissible range, max. • for signal "0" residual current, max. Output delay with resistive load • "0" to "1", max. 100 us; at rated load • "1" to "0", max. 100 us; at rated load • "1" to "0", max. • "1" to "0", max. • for uparting • for redundant control of a load • yes Switching frequency • with resistive load, max. • on lamp load, max. • Ourrent per module, max. • Current per module, max. • Urrent per module, max. * Varient per channel, max. • Varient sitsilation - up to 80 "C, max. vertical installation - up to 50 "C, max. • 4 A Cabble length • shelded, max. • 1000 m Unshelded, max. • 1000 m Output sitsilation Pes Substitute values connectable Alarms • Diagnostics Intention Pes Substitute values connectable Alarms • Diagnostics Intention Pes Substitute values connectable Wire-break • Monitoring the supply voltage • Wire-break • Monitoring of the supply voltage • Wire-break • Monitoring of the supply voltage • Wire-break • Short-circuit • Ochannel status display • Channel status display • Channel status display • For channel diagnostics • Ves; green LED • Channel status display • For channel diagnostics • Ves; green/red DIAG LED		0.5.0
Load resistance range		
• lower limit 48 Ω • upper limit 100 kΩ Output current • for signal "1" rated value 0.5 A • for signal "1" parmissible 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 • "0" to "1", max 150 μs; at rated load • "1" to "0", max 150 μs; at rated load • 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 module, max 4 A • Current per module, max 4 A • Current per module, max 4 A • Cutrent per module, max 4 A • Cabrel length • shielded, max 1000 m • up to 50 "C, max 4 A • shielded, max 1000 m • shielded, max 600 m Interrupt id an prostice facts to information • shielded, max 600 m Interrupt id an prostice facts to information Diagnostice function Yes Diagnostice functio		3 VV
• upper limit	-	48.0
Output current • for signal "1" reted value 0.5 A • for signal "1" permissible range, max. 10 μA • "0" to "7" residual current, max. 100 μs; at rated load • "0" to "7", max. 100 μs; at rated load • "1" to "0", max. 150 μs; at rated load Parallel switching of two outputs • for uprating • for redundant control of a load Yes Switching frequency • with inductive load, max. • with inductive load, max. 100 Hz • with inductive load, max. 10 Hz • on lamp load, max. 10 Hz • Urrent per module, max. 0.5 A • Current per module, max. 4 A • Current per module, max. 4 A vortical installation - up to 60 "C, max. 4 A vertical installation - up to 50 "C, max. 4 A cabile length • shielded, max. 1 000 m • shielded, max. 1 000 m • maximided, max. • Using postics function Yes Diagnostics function Yes Substitute values connectable Yes		
• for signal *1* rated value		12/1 001
• for signal "1" permissible range, max. • for signal "0" residual current, max. • for signal "0" residual current, max. • '0" to "1", max. • '0" to "1", max. • '1" to "0", max. • '1" to "0", max. • for updating • for redundant control of a load • Yes Switching frequency • with resistive load, max. • with inductive load, max. • on lamp load, max. • on lamp load, max. • on lamp load, max. • Utrent per module, max. • Utrent per	·	0.5 A
• for signal "0" residual current, max. Output delay with resistive load • "0" to "1"; max. • "1" to "0", max. 150 µs; at rated load • "1" to "0", max. 150 µs; at rated load Parallel switching of two outputs • for redundant control of a load Yes Switching frequency • with resistive load, max. • with inductive load, max. • on lamp load, max. • On lamp load, max. • Current per channel, max. • Current per channel, max. • Current per module, max. • La A • Current per module, max. • La A • Current per module, max. • A A • La A • L	-	
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• "0" to "1", max. • "1" to "0", max. • "1" to "0", max. • 150 µs; at rated load • "1" to "0", max. • for upratting • for upratting • for redundant control of a load • Yes Switching frequency • with resistive load, max. • on lamp load, max. • on lamp load, max. • on lamp load, max. • Current per rohannel, max. • Current per module, max. • Current per module, max. • Current for the outputs • Current of the outputs (per module) • horizontal installation • — up to 60 °C, max. • vertical installation • — up to 50 °C, max. • 4 A Cable length • shielded, max. • on max • on shielded, max. • Soon m Interrupts/diagnostics/status information Diagnostics function • Yes Substitute values connectable Alarms • Diagnostics function • Yes Diagnostics indication LED • Monitoring the supply voltage • Yes Diagnostics indication LED • Monitoring of the supply voltage (PWR-LED) • Channel status display • Fes; green PWR LED • Channel diagnostics • For module diagnostics • Yes; green PWR LED		10 μΑ
e-*1" to "0", max. Parallel switching of two outputs • for uprating • for redundant control of a load • Yes Switching frequency • with resistive load, max. • with inductive load, max. • on lamp load, max. • Outrent per channel, max. • Current per channel, max. • Current per module, max. • Current per module, max. • Unit probable for max. • Quartent of the outputs • Current per module, max. • AA Total current of the outputs (per module) • horizontal installation • — up to 60 °C, max. • 4A Cable length • shielded, max. • 1 000 m • shielded, max. • 1 000 m • unshielded, max. • 600 m Interrupts' diagnostics' status information Diagnostics function Pus Diagnostic slarm Pes Alarms • Diagnostic alarm Yes Diagnoses • Monitoring the supply voltage • Wre-break • Wre-break • Monitoring of the supply voltage (PWR-LED) • Monitoring of the supply voltage (PWR-LED) • Monitoring of the supply voltage (PWR-LED) • Channel status display • For module diagnostics		100 year at rated load
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• for redundant control of a load Switching frequency • with resistive load, max. • with inductive load, max. • on lamp load, max. • Current per channel, max. • Current per module, max. • Current per module, max. • Outrant of the outputs (per module) • Indicate installation — up to 60 °C, max. • A A Cable length • shelded, max. • shielded, max. • oliagnostics function Diagnostics function Pes Alarms • Diagnostic alarm • Wire-break • Monitoring the supply voltage • Wire-break • Monitoring the supply voltage (PWR-LED) • Monitoring of the supply voltage (PWR-LED) • Monitoring of the supply voltage (PWR-LED) • Channel status display • for module diagnostics	- ·	No
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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. • unshielded, max. • unshielded, max. Diagnostics function Pes Substitute values connectable Alarms • Diagnostic alarm Piagnosts • Monitoring the supply voltage • Wire-break • Short-circuit • Group error Diagnostics indication LED • Monitoring of the supply voltage (PWR-LED) • Channel status display • for channel diagnostics • for module diagnostics • for module diagnostics Ves; green/red DIAG LED	•	
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Diagnoses • Monitoring the supply voltage • Wire-break • Short-circuit • Group error Diagnostics indication LED • Monitoring of the supply voltage (PWR-LED) • Channel status display • for channel diagnostics • for module diagnostics • Yes; green/red DIAG LED		Voo
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Wire-break Short-circuit No Group error Yes Diagnostics indication LED Monitoring of the supply voltage (PWR-LED) Channel status display for channel diagnostics for module diagnostics Yes; green/red DIAG LED	-	Vee
 Short-circuit Group error Diagnostics indication LED Monitoring of the supply voltage (PWR-LED) Channel status display for channel diagnostics for module diagnostics Yes; green PWR LED Yes; green LED No Yes; green/red DIAG LED 		
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 Channel status display for channel diagnostics for module diagnostics Yes; green LED No Yes; green/red DIAG LED 	-	Very many DMD LED
 for channel diagnostics for module diagnostics Yes; green/red DIAG LED 		
• for module diagnostics Yes; green/red DIAG LED		
•		
Potential separation		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
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

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