6ES7132-6BF01-2AA0

Data sheet



SIMATIC ET 200SP, Digital output module, DQ 8x 24V DC/0,5A Basic, Source output (PNP,P-switching) Packing unit: 10 pieces, fits to BU-type A0, Colour Code CC02, aubstitute 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. • Under lo		
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 from outputs • for uprating • for prading and the signal switching of two outputs • for uprating • for redundant control of a load • Yes Switching frequency • with resistive load, max. • to lamp load, max. • Unit inductive load, max. • Unit resistive load, max. • Unit inductive load,	•	
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 Unscriptfullign-out-sitsitatius information Diagnostics function Pes Substitute values connectable Alarms • Diagnostics function • Yes Diagnostics infortion LED • Monotroing the supply voltage • Wire-break • Monotroing the supply voltage • Wire-break • Monotroing the supply voltage (PWR-LED) • Channel status display • Cor channel status display • Cor channel status display • For channel diagnostics • Ves; green LED • Con module diagnostics • Ves; green 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 • unshielded, max. 600 m • Diagnostics function Yes Substitute values connectable Yes Alarms No <		
• 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 Cable length • Ishelded, max. • I 1000 m • Unshielded, max. • Oilagnostics function Nessistive values connectable Alarms • Diagnostics alarm • Diagnostics alarm • Diagnostics alarm • Oilagnostic alares • Monitoring of the supply voltage (PWR-LED) • Channel slatus display • For module diagnostics • Ves; green/red DIAG LED	-	
Output delay with resistive load • "0" to "1", max. • "1" to "0" max. • "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 resistive load, max. • with inductive load, max. • with inductive load, max. • on lamp load, max. • on lamp load, max. • Uurrent per channel, max. • Current per module, max. • Uurrent of the outputs • Current per module, max. • Uurrent per module, max. • Vertical installation • — up to 60 °C, max. • 4 A Vertical installation • — up to 50 °C, max. • 4 A Vertical installation • — up to 50 °C, max. • 4 A Vertical installation • Up to 60 °C, max. • 4 A Vertical installation • — up to 50 °C, max. • 4 A Vertical installation • — up to 50 °C, max. • 4 A Vertical installation • Up to 60 °C, max. • 4 A Vertical installation • — up to 50 °C, max. • 4 A Vertical installation • — up to 50 °C, max. • 4 A Vertical installation • Up to 60 °C, max. • 4 A Vertical installation • Up to 60 °C, max. • 4 A Vertical installation • — up to 50 °C, max. • 4 A Vertical installation • Up to 60 °C, max. • 4 A Vertical installation • Up to 60 °C, max. • 4 A Vertical installation • Up to 60 °C, max. • 4 A Vertical installation • Up to 60 °C, max. • 4 A Vertical installation • Up to 60 °C, max. • 4 A Vertical installation • Up to 60 °C, max. • 4 A Vertical installation • Up to 60 °C, max. • 4 A Vertical installation • Up to 60 °C, max. • Up		
• "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 shielded, max. • on max • on shielded, max. • Outputs for max • Substitute values connectable Alarms • Diagnostics function • Yes Substitute values connectable Alarms • 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) • Channel status display • For channel diagnostics • 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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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
Monitoring the supply voltage Wire-break No Short-circuit No Group error Diagnostics indication LED Monitoring of the supply voltage (PWR-LED) Channel status display for channel diagnostics for module diagnostics Yes Yes Yes Yes Yes Yes Yes; green PWR LED Yes; green LED No Yes; green LED Yes; green LED Yes; green LED Yes; green/red DIAG LED		165
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 	-	Variable 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	

No
Yes
No
707 V DC (type test)
No
Yes; see FAQ Entry ID: 39198632
PL d
SIL 2
-30 °C; < 0 °C as of FS02
60 °C
-30 °C; < 0 °C as of FS02
50 °C
5 000 m; Restrictions for installation altitudes > 2 000 m, see manual
15 mm
73 mm
58 mm
30 g

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