Data sheet 6ES7132-6BF00-2CA0



SIMATIC ET 200SP, digital output module, DQ 8x 24VDC/0,5A High Feature, Source output PNP, P-switching, packaging unit: 10 pieces, suitable for BU type A0, color code CC02, channel diagnosis for: short circuit and wire break, power supply, channel failure LED

General information		
Product type designation	DQ 8x24 V DC/0.5 A HF	
HW functional status	From FS07	
Firmware version		
 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	Yes	
Engineering with		
 STEP 7 TIA Portal configurable/integrated from version 	V13 SP1 / -	
 STEP 7 configurable/integrated from version 	V5.5 / -	
 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	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	
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.	8 byte; 2 channels per submodule + QI information	
Hardware configuration		
Automatic encoding	Yes	

Mechanical coding element	Yes
Type of mechanical coding element	Type A
Selection of BaseUnit for connection variants	туре А
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
Digital outputs	Bo type Ao 11 oterital distributor module
	Course output (DND oursent coursing)
Type of digital output Number of digital outputs	Source output (PNP, current-sourcing) 8
Current-sinking	No
	Yes
Current-sourcing	Yes
Digital outputs, parameterizable Short-circuit protection	165
	1 A; 0.7 to 1.3 A
Response threshold, typ. Limitation of industries chutdown voltage to	Typ. L+ (-50 V)
Limitation of inductive shutdown voltage to Controlling a digital input	Yes
Switching capacity of the outputs	165
with resistive load, max.	0.5 A
	5 W
on lamp load, max. Load resistance range	5 W
lower limit	48 Ω
	46 Ω 12 kΩ
upper limit Output current	12 K12
·	0.5 A
• for signal "0" rated value	
for signal "0" residual current, max. Output delay with resistive lead.	0.1 mA
Output delay with resistive load	E0.00
• "0" to "1", typ.	50 μs
• "1" to "0", typ.	100 μs
Parallel switching of two outputs	No
• for uprating	No Var
for redundant control of a load Cuitables from the pure service and the service and t	Yes
Switching frequency	400 11-
with resistive load, max.	100 Hz
with inductive load, max.	2 Hz
• on lamp load, max.	10 Hz
Total current of the outputs	0.5.4
Current per channel, max.	0.5 A
Current per module, max. The last of	4 A
Total current of the outputs (per module)	
horizontal installation	4.0
— up to 60 °C, max.	4 A
vertical installation	4.0
— up to 50 °C, max.	4 A
Cable length	4 000
• shielded, max.	1 000 m
• unshielded, max.	600 m
Isochronous mode	
Execution and activation time (TCO), min.	48 μs
Bus cycle time (TDP), min.	500 μs
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Substitute values connectable	Yes
Alarms	
Diagnostic alarm	Yes
Diagnoses	
Monitoring the supply voltage	Yes
Wire-break	Yes; channel by channel

Short-circuit	Yes; channel by channel	
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 	Yes; red LED	
 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 	Up to SIL 2	
Ambient conditions		
Ambient temperature during operation		
 horizontal installation, min. 	-30 °C; < 0 °C as of FS07	
 horizontal installation, max. 	60 °C	
 vertical installation, min. 	-30 °C; < 0 °C as of FS07	
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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