SIEMENS

Data sheet

6ES7132-6FD00-0CU0



SIMATIC ET 200SP, digital output module DQ 4x 24..230V AC/2A HF packaging unit: 1 piece, two alternative modes: DQ and power control, fits to BU-Type U0, color code CC20, channel diagnosis

General information	
Product type designation	DQ 4x24 230 V AC/2 A HF
HW functional status	From FS03
Firmware version	
 FW update possible 	Yes
usable BaseUnits	BU type U0
Color code for module-specific color identification plate	CC20
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 	STEP 7 V5.5 or higher
 PROFIBUS from GSD version/GSD revision 	GSD as of Revision 5
 PROFINET from GSD version/GSD revision 	GSDML V2.3
Operating mode	
• DQ	Yes
 DQ with energy-saving function 	Yes
• PWM	No
Oversampling	No
• MSO	No
Phase control	Yes; Control area: 8.5 100% of the phase angle
 Trailing-edge phase 	No
Half-wave	Yes
• Full-wave	Yes
Supply voltage	
Rated value (AC)	230 V; 47 63 Hz, max. rate of change of frequency 1 mHz/s
permissible range, lower limit (AC)	20.4 V
permissible range, upper limit (AC)	264 V
Input current	
Current consumption (rated value)	8 mA; without load
output voltage / header	
Rated value (AC)	230 V; 24V AC to 230V AC
Power loss	
Power loss, typ.	9 W; Active power, load voltage 230 V, all outputs loaded with 2 A, 50 Hz
Address area	
Address space per module	

Inputs	+ 1 byte for QI information
Outputs	8 byte
Hardware configuration	
Automatic encoding	Yes
Mechanical coding element	Yes
Type of mechanical coding element	
Selection of BaseUnit for connection variants	type C
• 1-wire connection	BU type U0
2-wire connection	BU type U0
3-wire connection	BU type U0 + Potential distributor module
Digital outputs	
Type of digital output	Triac
Number of digital outputs	4
Current-sinking	No
Current-sourcing	Yes
Digital outputs, parameterizable	Yes
Short-circuit protection	No; external fusing necessary
Open-circuit detection	Yes; channel by channel
Response threshold, typ.	1 mA; 40 V AC or more
Overload protection	No; A miniature fuse with 10 tripping current and tripping characteristic
	"quick response" must be provided in the module supply
Controlling a digital input	Yes
Switching capacity of the outputs	
 with resistive load, max. 	2 A; Max. 4 A, see additional description in manual
 with inductive load, max. 	2 A
 on lamp load, max. 	100 W; Tungsten rating in accordance with UL; for thermistors with
	higher power ratings, see the notes in the manual
Output voltage	
• for signal "1", min.	20.4 V
Output current	
 for signal "1" rated value 	2 A
 for signal "1" permissible range, min. 	10 mA
• for signal "1" permissible range, max.	4 A; note derating data in the manual
• for signal "0" residual current, max.	3 mA
Output delay with resistive load	
• "0" to "1", max.	40 ms; 2 AC cycles
• "1" to "0", max.	20 ms; 1 AC cycle
Parallel switching of two outputs	
• for logic links	No
• for uprating	No
for redundant control of a load	Yes
Switching frequency	10 Hay Applice to DO model limited by line for successing DO model
with resistive load, max.	10 Hz; Applies to DQ mode; limited by line frequency in PC mode
 with inductive load (acc. to IEC 60947-5-1, AC15), max. 	10 Hz; Applies to DQ mode; limited by line frequency in PC mode
• on lamp load, max.	1 Hz; Applies to DQ mode; limited by line frequency in PC mode
Total current of the outputs	,
Current per channel, max.	2 A; Max. 4 A, see additional description in manual
Current per module, max.	8 A
Total current of the outputs (per module)	
horizontal installation	
— up to 40 °C, max.	8 A
— up to 50 °C, max.	6 A
— up to 60 °C, max.	4 A
vertical installation	
— up to 30 °C, max.	8 A
— up to 40 °C, max.	6 A
— 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	
 Diagnostic information readable 	Yes
 Monitoring the supply voltage 	Yes
Wire-break	Yes; channel by channel
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 	Yes; red Fn 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	2 545 V DC/2 s (routine test)
Standards, approvals, certificates	
Suitable for safety functions	No
Ambient conditions	
Ambient temperature during operation	
 horizontal installation, min. 	-30 °C
 horizontal installation, max. 	60 °C
 vertical installation, min. 	-30 °C
 vertical installation, max. 	50 °C
Altitude during operation relating to sea level	
 Installation altitude above sea level, max. 	2 000 m; On request: Installation altitudes greater than 2 000 m
Dimensions	
Width	20 mm
Height	73 mm
Depth	58 mm
Weights	
Weight, approx.	50 g
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