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		
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
lardware configuration	
Automatic encoding	Yes
Mechanical coding element	Yes
Selection of BaseUnit for connection variants	- 100
• 1-wire connection	BU type U0
2-wire connection	BU type U0
3-wire connection	BU type U0 + Potential distributor module
Digital outputs	Do type do in otomical allocation modulo
Number of digital outputs	4
Current-sinking	No
Current-sourcing	Yes
-	Yes
Digital outputs, parameterizable	
Short-circuit protection Open-circuit detection	No; external fusing necessary
Response threshold, typ.	Yes; channel by channel 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	
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),	10 Hz; Applies to DQ mode; limited by line frequency in PC mode
max.	
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	

• 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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