



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-coded label	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

Hardware configuration	
Automatic encoding	Yes
<ul style="list-style-type: none"> Mechanical coding element Type of mechanical coding element 	Yes type C
Selection of BaseUnit for connection variants	
<ul style="list-style-type: none"> 1-wire connection 2-wire connection 3-wire connection 	BU type U0 BU type U0 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
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> with resistive load, max. with inductive load, max. on lamp load, max. 	2 A; Max. 4 A, see additional description in manual 2 A 100 W; Tungsten rating in accordance with UL; for thermistors with higher power ratings, see the notes in the manual
Output voltage	
<ul style="list-style-type: none"> for signal "1", min. 	20.4 V
Output current	
<ul style="list-style-type: none"> for signal "1" rated value for signal "1" permissible range, min. for signal "1" permissible range, max. for signal "0" residual current, max. 	2 A 10 mA 4 A; note derating data in the manual 3 mA
Output delay with resistive load	
<ul style="list-style-type: none"> "0" to "1", max. "1" to "0", max. 	40 ms; 2 AC cycles 20 ms; 1 AC cycle
Parallel switching of two outputs	
<ul style="list-style-type: none"> for logic links for uprating for redundant control of a load 	No No Yes
Switching frequency	
<ul style="list-style-type: none"> with resistive load, max. with inductive load (acc. to IEC 60947-5-1, AC15), max. on lamp load, max. 	10 Hz; Applies to DQ mode; limited by line frequency in PC mode 10 Hz; Applies to DQ mode; limited by line frequency in PC mode 1 Hz; Applies to DQ mode; limited by line frequency in PC mode
Total current of the outputs	
<ul style="list-style-type: none"> Current per channel, max. Current per module, max. 	2 A; Max. 4 A, see additional description in manual 8 A
Total current of the outputs (per module)	
horizontal installation	
<ul style="list-style-type: none"> — up to 40 °C, max. — up to 50 °C, max. — up to 60 °C, max. 	8 A 6 A 4 A
vertical installation	
<ul style="list-style-type: none"> — up to 30 °C, max. — up to 40 °C, max. — up to 50 °C, max. 	8 A 6 A 4 A
Cable length	
<ul style="list-style-type: none"> shielded, max. unshielded, max. 	1 000 m 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	
Ecological footprint		
• environmental product declaration	Yes	
Global warming potential		
— global warming potential, (total) [CO2 eq]	13.9 kg	
— global warming potential, (during production) [CO2 eq]	5.53 kg	
— global warming potential, (during operation) [CO2 eq]	8.71 kg	
— global warming potential, (after end of life cycle) [CO2 eq]	-0.359 kg	
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	
Absolute humidity		
• dew point, min.	-60 °C; suitable for dry room applications	
Dimensions		
Width	20 mm	
Height	73 mm	
Depth	58 mm	
Weights		
Weight, approx.	50 g	
Classifications		
	Version	Classification
eClass	14	27-24-26-04
eClass	12	27-24-26-04
eClass	9.1	27-24-26-04
eClass	9	27-24-26-04
eClass	8	27-24-26-04

eClass	7.1	27-24-26-04
eClass	6	27-24-26-04
ETIM	10	EC001599
ETIM	9	EC001599
ETIM	8	EC001599
ETIM	7	EC001599
IDEA	4	3566
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval	Environment
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last modified:

2/1/2026

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