



SIMATIC ET 200SP, digital output module, DQ 4x 24...230V AC/2A Standard suitable for BU type B1, Color code CC41, Module diagnostics

General information	
Product type designation	DQ 4x24 ... 230 V AC/2 A ST
HW functional status	From FS05
Firmware version	V1.0
• FW update possible	Yes
usable BaseUnits	BU type B1
Color code for module-specific color-coded label	CC41
Product function	
• I&M data	Yes; I&M0 to I&M3
• Isochronous mode	No
Engineering with	
• STEP 7 TIA Portal configurable/integrated from version	V13 / V13
• STEP 7 configurable/integrated from version	V5.5 SP3 / -
• PROFIBUS from GSD version/GSD revision	GSD Revision 5
• 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 (AC)	230 V
permissible range, lower limit (AC)	20.4 V
permissible range, upper limit (AC)	264 V
Input current	
Current consumption (rated value)	11.5 mA
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	
• Address space per module, max.	1 byte; + 1 byte for QI information
• Inputs	1 byte; With QI
• Outputs	1 byte

Hardware configuration	
Automatic encoding	
<ul style="list-style-type: none"> Type of mechanical coding element 	type C
Digital outputs	
Type of digital output	Triac with zero point detection
Number of digital outputs	4
Current-sinking	No
Current-sourcing	Yes
Digital outputs, parameterizable	No
Short-circuit protection	No; When using BU type B1, a miniature, quick-response fuse with 10 A tripping current must be provided
Controlling a digital input	Yes
Size of motor starters according to NEMA, max.	5
Switching capacity of the outputs	
<ul style="list-style-type: none"> with resistive load, max. on lamp load, max. 	2 A 100 W
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 2 A 460 µA
Output delay with resistive load	
<ul style="list-style-type: none"> "0" to "1", max. "1" to "0", max. 	10 ms 10 ms
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, max. on lamp load, max. 	10 Hz 0.5 Hz; Higher frequencies are possible, see Equipment Manual / Product Information 1 Hz
Total current of the outputs	
<ul style="list-style-type: none"> Current per channel, max. Current per module, max. 	2 A 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	No
Substitute values connectable	Yes
Alarms	
<ul style="list-style-type: none"> Diagnostic alarm 	No
Diagnoses	
<ul style="list-style-type: none"> Monitoring the supply voltage Wire break Short-circuit 	No No 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	No
• 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)
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Standards, approvals, certificates

Suitable for safety functions	No
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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.	60 °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
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Absolute humidity

• dew point, min.	-60 °C; suitable for dry room applications
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Dimensions

Width	20 mm
Height	73 mm
Depth	58 mm

Weights

Weight, approx.	50 g
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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



[Manufacturer Declaration](#)

[Miscellaneous](#)



General Product Approval

For use in hazardous locations



[China RoHS](#)



For use in hazardous locations

Maritime application

[EM](#)



[NK / Nippon Kaiji Kyokai](#)

Maritime application

Environment



[CCS \(China Classification Society\)](#)

[KR \(Korean Register of Shipping\)](#)



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