## Data sheet

SIMATIC S7-1500, digital output module DQ 8x230 V AC/2 A ST; TRIAC; 8 channels in groups of 1; 2 A per group; Substitute value: Front connector (screw terminals or push-in) to be ordered separately

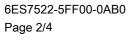


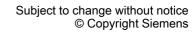
Figure similar

General information	
Product type designation	DQ 8x230 V AC/2A ST (triac)
HW functional status	FS01
Firmware version	V2.0.0
<ul> <li>FW update possible</li> </ul>	Yes
Product function	
● I&M data	Yes; I&M0 to I&M3
<ul> <li>Isochronous mode</li> </ul>	No
Prioritized startup	Yes
Engineering with	
<ul> <li>STEP 7 TIA Portal configurable/integrated from version</li> </ul>	V12 / V12
<ul> <li>STEP 7 configurable/integrated from version</li> </ul>	V5.5 SP3 / -
<ul> <li>PROFIBUS from GSD version/GSD revision</li> </ul>	V1.0 / V5.1
<ul> <li>PROFINET from GSD version/GSD revision</li> </ul>	V2.3 / -
Operating mode	
• DQ	Yes

<ul> <li>PWM</li> <li>Oversampling</li> <li>MSO</li> <li>No</li> <li>Yes</li> </ul>	put voltage		
• PWM No	• MSO	Yes	
	Oversampling	No	
	• PWM	No	
• DQ with energy-saving function No	<ul> <li>DQ with energy-saving function</li> </ul>	No	

• PWM	No
<ul><li>Oversampling</li></ul>	No
• MSO	Yes
Output voltage	
Rated value (AC)	230 V; 120/230 V AC, 50/60 Hz
Power	
Power available from the backplane bus	0.9 W
Power loss	
Power loss, typ.	10.8 W
Digital outputs	
Type of digital output	Triac
Number of digital outputs	8
Current-sourcing	Yes
Digital outputs, parameterizable	Yes
Short-circuit protection	No
• built-in fuse	6.3 A melting fuse, slow-blow
Size of motor starters according to NEMA, max.	5
Switching capacity of the outputs	
<ul><li>with resistive load, max.</li></ul>	2 A
● on lamp load, max.	50 W
Output voltage	
● for signal "1", min.	L1 (-1.5 V) at maximum output current; L1 (-8.5 V) at minimum output current
Output current	
● for signal "1" rated value	2 A
• for signal "1" permissible range, min.	10 mA
• for signal "1" permissible range, max.	15 A; max. 1 AC cycle
• for signal "0" residual current, max.	2 mA
Output delay with resistive load	
• "0" to "1", max.	1 AC cycle
• "1" to "0", max.	1 AC cycle
Parallel switching of two outputs	
• for logic links	No
• for uprating	No
<ul> <li>for redundant control of a load</li> </ul>	Yes
Switching frequency	
with resistive load, max.	10 Hz
• with inductive load, max.	0.5 Hz
● on lamp load, max.	1 Hz
Total current of the outputs	





Current per channel, max.	2 A; see additional description in the manual
Current per group, max.	2 A; see additional description in the manual
	10 A; see additional description in the manual
<ul> <li>Current per module, max.</li> <li>Cable length</li> </ul>	10 A, see additional description in the mandal
	1 000 m
• shielded, max.	600 m
• unshielded, max.	000 111
Interrupts/diagnostics/status information	
Diagnostics function	No
Substitute values connectable	Yes
Alarms	
Diagnostic alarm	No
Maintenance interrupt	No
Diagnoses	
<ul><li>Monitoring the supply voltage</li></ul>	No
Wire-break	No
Short-circuit	No
Diagnostics indication LED	
• RUN LED	Yes; green LED
• ERROR LED	Yes; red LED
<ul> <li>Monitoring of the supply voltage (PWR-LED)</li> </ul>	No
Channel status display	Yes; green LED
• for channel diagnostics	No
• for module diagnostics	Yes; red LED
Potential separation	
Potential separation channels	
between the channels	Yes
between the channels, in groups of	1
between the channels and backplane bus	Yes
Between the channels and load voltage L1	Yes
Detween the channels and load voltage L1	, 00
Permissible potential difference	
between different circuits	250 V AC between the channels and the backplane bus; 500 V
	AC between the channels
Isolation	
Isolation tested with	3 100 V DC
Standards, approvals, certificates	
Suitable for safety functions	No
Ambient conditions	
Ambient temperature during operation	
horizontal installation, min.	0 °C
horizontal installation, max.	60 °C



vertical installation, min.
 vertical installation, max.
 40 °C

Dimensions	
Width	35 mm
Height	147 mm
Depth	129 mm

Weights	
Weight, approx.	290 g

**last modified:** 10/13/2020

